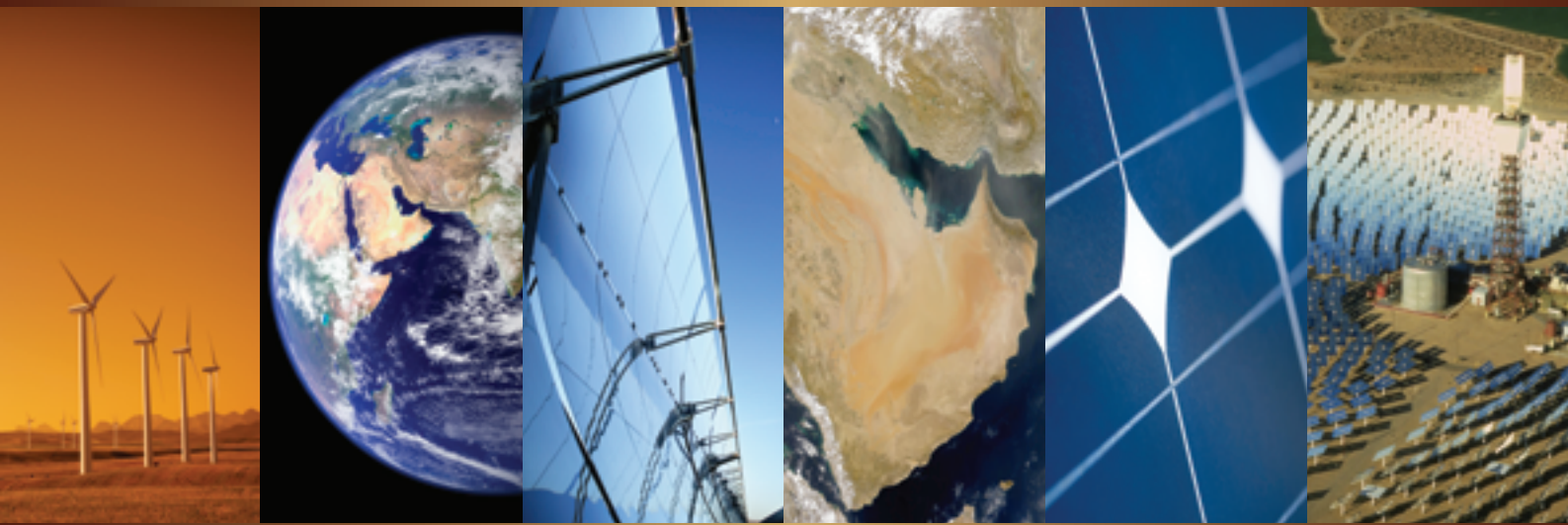


# ANNUAL REPORT 2008



هيئة تنظيم الكهرباء - عمان  
AUTHORITY FOR ELECTRICITY REGULATION, OMAN



HIS MAJESTY  
SULTAN QABOOS BIN SAID



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## GLOSSARY OF TERMS

|                                      |   |
|--------------------------------------|---|
| COST-REFLECTIVE<br>TARIFF            | Amounts charged by a Licensed Supplier for Supply where no Permitted Tariff exists, and where such tariffs are calculated each year on the basis and rules prescribed by the Authority;   |
| CCGT                                 | Combined Cycle Gas Turbines   |
| CSP                                  | Concentrated Solar Power  |
| DPC                                  | The Dhofar Power Company SAOC   |
| EHC                                  | The Electricity Holding Company SAOC  |
| GCCIA                                | Gulf Cooperation Council Interconnection Authority  |
| IPO                                  | Initial Public Offering   |
| MAIN INTERCONNECTED<br>SYSTEM OR MIS | The interconnected systems of OETC, and the Muscat, Majan and Mazoon Discos   |
| MAJAN                                | The Majan Electricity Company SAOC  |
| MAZOOON                              | The Mazoon Electricity Company SAOC   |
| MAR                                  | Maximum Allowed Revenue   |
| MHEW                                 | The Ministry of Housing, Electricity and Water  |
| MUSCAT                               | The Muscat Electricity Distribution Company SAOC  |
| OETC                                 | The Oman Electricity Transmission Company SAOC  |
| OMANISATION                          | The policy for the employment of Omani nationals as issued from time to time by the Government of Oman  |
| PERMITTED TARIFF                     | Tariffs Customers are obliged to pay in consideration for Supply of electricity or for Connection to a Distribution System or a Transmission System, which tariff shall be determined in the manner stipulated in Article (9) of the Sector Law |
| PAEW                                 | The Public Authority for Electricity and Water  |
| PWP                                  | The Oman Power and Water Procurement Company SAOC   |
| RAEC                                 | The Rural Areas Electricity Company SAOC  |
| RO                                   | Rial Omani  |
| ROP                                  | Royal Oman Police   |
| SCRC                                 | Schedule Charge Restriction Condition   |
| SALALAH IWPP                         | The Salalah Independent Power and Water Project   |
| SECTOR LAW                           | The law for the regulation and privatization of the electricity and related water sector promulgated by Royal Decree 78/2004  |
| RELATED WATER                        | Desalinated water in the Sultanate of Oman which is combined or co-located with the electricity sector and which is subject to regulation   |
| THE AUTHORITY                        | The Authority for Electricity Regulation, Oman, being the authority established pursuant to Article (19) of the Sector Law  |



## CHAIRMAN'S FOREWORD

2008 was a year of further progress and development in the Sultanate's electricity and related water sector. The Authority launched a major renewable energy initiative and faced some unexpected regulatory challenges.

In terms of activity, registered customer accounts in the Sultanate increased by 26,729 to 597,323, 4.7% higher than in 2007. Total Supply to registered accounts Sultanate reached 12.9 TWh, 15% higher than in 2007: MIS Supply recorded an annual increase of 16%, RAEC Supply an increase of 14% and Supply from the Salalah Power System in 2008 was 5% higher than in 2007.

Average electricity supplied per account in 2008 was 21.5 MWh, this is 10% higher than in 2007 and confirms an increasing trend in electricity intensity of economic activity.

All regions benefitted from sector related capital investment in 2008: licensed system operators approved 300 new projects in 2008 with a total value of 115 million RO. Direct employment Omanisation in 2008 reached 80% (78% in 2007). Total (direct and indirect) electricity and related water sector employment increased to 6,239, 2% higher than in 2007 with Omanisation of 67% (2 percentage points higher than the 65% rate reported in 2007).

The commissioning of 363MW of net early power capacity at the SMN Barka production facility increased MIS net contracted capacity to 3,392MW.

The Authority is pleased to report further improvements in efficiency. MIS technical and non technical losses in 2008 were 18.7%, a significant reduction on the 24.6% losses recorded in 2004. New distribution and Supply price controls implemented by the Authority in 2008 provide licensees with incentives to reduce losses further: the Authority expects MIS losses to fall to 14% by 2011 and to 7% to 9% thereafter. The value of 2008 MIS losses reductions is an estimated 4 million RO.

The efficiency with which gas is used to produce electricity and related water continues to improve: the specific gas consumption of MIS connected generation in 2008 was 356 Sm<sup>3</sup>/MWh, 19% lower than the 1995 rate of 439 Sm<sup>3</sup>/MWh. Following commissioning of two new CCGT in 2012 (Sohar II and Barka III) and the Ghubrah IWPP CCGT in 2013, specific gas consumption is expected to reduce to 275 Sm<sup>3</sup>/MWh in 2014, this would be 23% lower than in 2008 and 37% lower than in 1995.

In July 2008 Sohar Power Company completed an initial public offering (IPO) of 35 per cent of the shares of the Sohar IWPP. The IPO was 21 times oversubscribed. This was Oman's most successful electricity related public share offering to date, highlighting the confidence of the Omani public and wider investment community in the electricity privatization program.

Licensed Suppliers received 90.8 million RO of electricity subsidy in 2008 (MIS subsidy was 63.1 million RO and RAEC subsidy 23.7 million RO). In 2009, MIS Subsidy is forecast to increase to 107.5 million RO due to increased payments to new production facilities and significant increases in approved capital expenditure. Despite the increased level of subsidy, underlying MIS subsidy in 2009 of 8.7 baiza/kWh would be lower than the 9.4 baiza/kWh of MIS subsidy in 2006. RAEC subsidy in 2009 is forecast to increase to 28.8 million RO (82.1 baiza/kWh).

In 2007 the Authority commissioned COWI & Silver Circle to assess the Sultanate's renewable energy potential and recommend ways in which this potential could be used in an economic and sustainable manner. The Authority published the results of the Renewable Energy study in May 2008 and was delighted by the positive response it received from both international and local entities. The Authority is working to implement some of the study's key recommendations that are described in this report.



In October 2008 the Authority initiated its first formal Article 147 investigation concerning suspected irregularities in arrangements for handling conflicts of interest on the part of Directors of the PWP, and their possible implications for the Salalah IWPP competition managed by the PWP. During the course of the investigation the concerned Director resigned from the PWP Board thereby removing the conflict.

Regrettably, there were three fatalities in the sector during 2008, two involving Muscat Electricity Distribution Company SAOC and a third involving Majan Electricity Company SOAC. The Authority is concerned by these fatalities and an apparent relaxation in the health and safety standards of certain licensees. The Authority will conduct comprehensive HSE audits of two licensees in 2009 and take enforcement action to improve the safety of electricity sub stations and related equipment.

Further details of the Authority's activities in 2008 are provided in this our fourth Annual Report. The achievements and progress reported herein reflect the significant contributions of electricity and related water sector companies and their staff. The Authority is pleased to acknowledge these contributions and is grateful for the cooperation and support we received in 2008.

On behalf of Members and staff of the Authority I would like to express our sincere gratitude to His Majesty Sultan Qaboos bin Said for his vision, guidance and leadership and to His Majesty's government for their continuing support.

**Dr Saleh Al Alawi**

Chairman

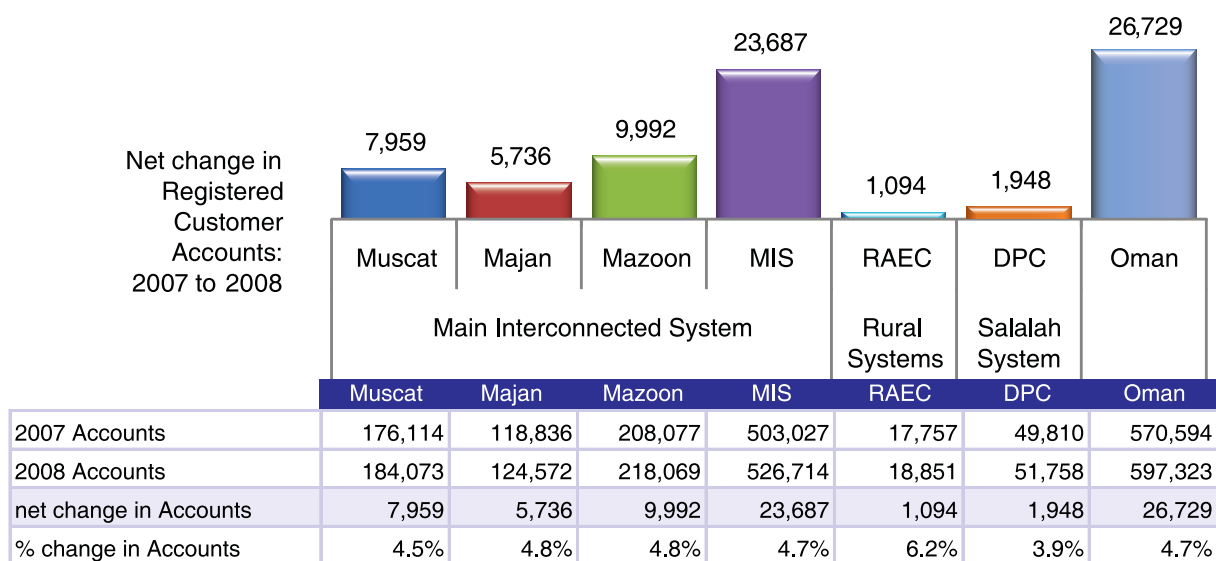
Authority for Electricity Regulation, Oman

## ELECTRICITY & RELATED WATER SECTOR ACTIVITY AND STATISTICS

### Customer Accounts

Registered electricity customer accounts in the Sultanate increased from 570,594 in 2007 to 597,323 in 2008, an increase of 4.7% (this follows a 4% increase in 2007). MIS customer accounts increased by 4.7% in 2008 (4% in 2007), RAEC customer accounts by 6.2% (7% in 2007) and Salalah system accounts by 3.9% (3% in 2007). Please refer to Figure 1 and Table 1 of Annex C for further details.

**Figure 1: Registered Customer Accounts by Company – 2007 & 2008**



Source: Company returns

The MIS contributed to 89% of the increase in total accounts, RAEC 4% and DPC 7%. Mazoon accounted for 42% of the increase in MIS accounts, Muscat 34% and Majan 24%.

Residential accounts contributed to 79% of the 26,729 increase in total accounts, Commercial accounts contributed to 16% of the increase. Government customers accounted for just 4% of new accounts.

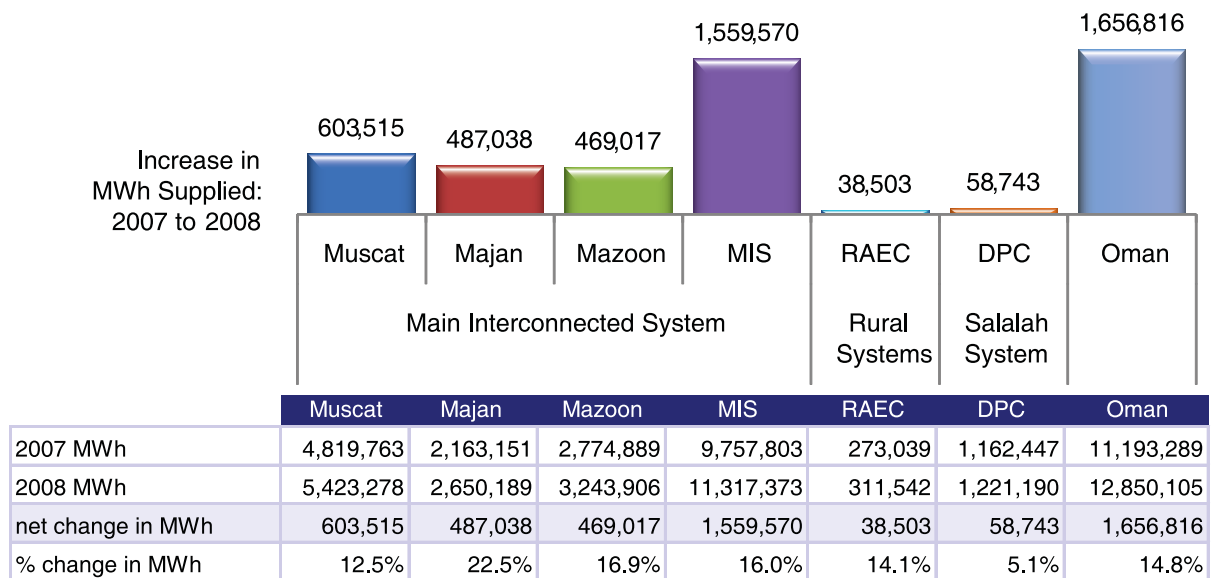
Commercial accounts represent a significant proportion of the increase in accounts of all companies in 2008: ranging from 19% of the increase in Muscat accounts to 13% of the increase in Mazoon accounts.

## Electricity Supply

Total electricity Supply to customers in the Sultanate in 2008 reached 12.9 TWh, a 14.8% increase on the 11.2 TWh supplied in 2007.

MIS Supply increased by 16% in 2008 reflecting strong growth in Supply by Muscat (a 12.5% on 2007), Majan (an increase of 22.5%) and Mazoon (an increase of 16.9%). RAEC Supply in 2008 was 14.1% higher than in 2007. Supply from the Salalah Power System was 5.1% higher than in 2007, considerably less than the 13% growth reported between 2006 and 2007. Please refer to Figure 2 and Table 2 of Annex C for further details.

**Figure 2: Electricity Supply by Company – 2007 & 2008**



Source: Company returns

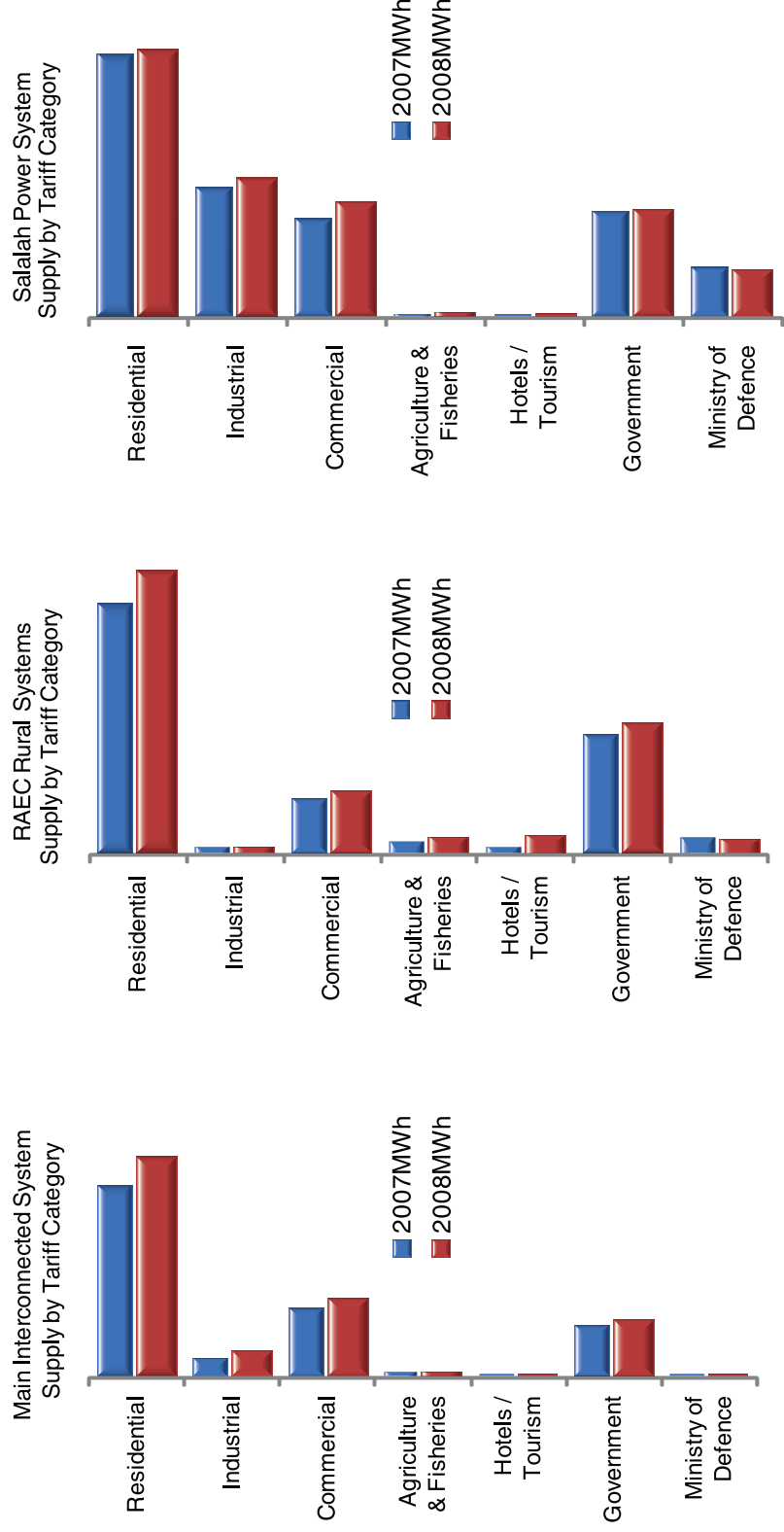
Figure 3 presents electricity Supply by tariff category for each of the three market segments in 2007 and 2008. Residential customers accounted for 55% of total Supply in 2008: 56.4% of MIS Supply, 53.1% of RAEC and 39.1% of Supply from the Salalah Power System.

Commercial customers accounted for 19.7% of total Supply in 2008 (compared to 19.5% in 2007). Supply to public sector accounts (Government and Ministry of Defence facilities) accounted for 16.4% of total Supply in 2008, continuing the downward trend noted in previous reports (19.1% in 2006 and 17.3% in 2007). Industrial customers accounted for just 7.7% of total 2008 Supply, although units supplied to Industrial customers was 65% higher than in 2005 underling the rapid growth of this sector.



Figure 3: Electricity Supply by & System – 2007 & 2008

| Tariff Category         | Main Interconnected System |            |          | RAEC Rural Systems |          |          | Salalah Power System |           |          |
|-------------------------|----------------------------|------------|----------|--------------------|----------|----------|----------------------|-----------|----------|
|                         | 2007 MWh                   | 2008 MWh   | % Change | 2007 MWh           | 2008 MWh | % Change | 2007 MWh             | 2008 MWh  | % Change |
| Residential             | 5,540,076                  | 6,386,904  | 15%      | 146,377            | 165,400  | 13%      | 467,109              | 477,275   | 2%       |
| Industrial              | 526,832                    | 733,370    | 39%      | 3,606              | 3,306    | -8%      | 232,024              | 246,153   | 6%       |
| Commercial              | 1,971,754                  | 2,281,355  | 16%      | 31,925             | 37,072   | 16%      | 176,421              | 206,957   | 17%      |
| Agriculture & Fisheries | 124,512                    | 145,093    | 17%      | 7,415              | 10,053   | 36%      | 8,004                | 13,058    | 63%      |
| Hotels / Tourism        | 11,859                     | 17,359     | 46%      | 3,949              | 10,643   | 170%     | 1,900                | 1,731     | -9%      |
| Government              | 1,505,172                  | 1,673,690  | 11%      | 69,865             | 76,219   | 9%       | 189,462              | 190,999   | 1%       |
| Ministry of Defence     | 77,598                     | 79,003     | 2%       | 9,902              | 8,849    | -11%     | 87,528               | 85,017    | -3%      |
| Totals                  | 9,757,803                  | 11,317,373 | 16%      | 273,039            | 311,542  | 14%      | 1,162,447            | 1,221,190 | 5%       |

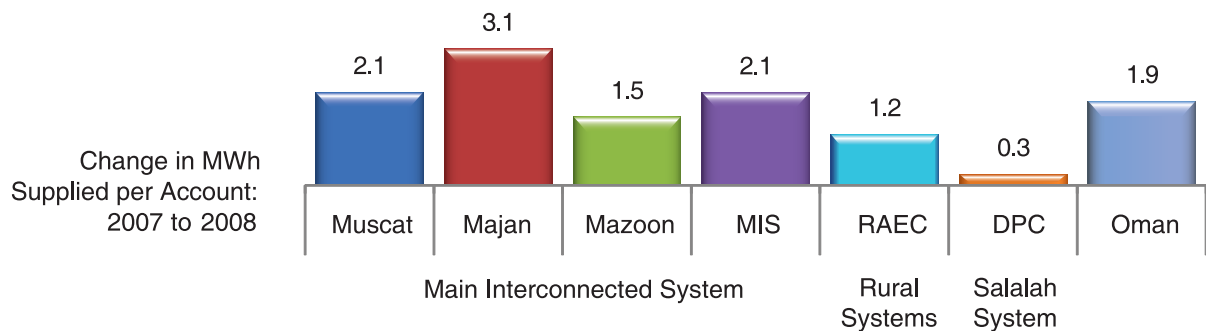


### Electricity Supply per Account

For the Sultanate as a whole, electricity intensity (MWh per account) increased by around 10% from 19.6 in 2007 to 21.5 in 2008, please refer to Figure 4 and Table 3 of Annex C for details.

MWh per account registered increases in most tariff categories, market segments and regions, confirming a general increase in the electricity intensity of economic activity.

**Figure 4: MWh Supplied per Registered Account – 2007 & 2008**



|                            | Muscat | Majan | Mazoon | MIS   | RAEC | DPC  | Oman |
|----------------------------|--------|-------|--------|-------|------|------|------|
| 2007 MWh Supply/per Acct   | 27.4   | 18.2  | 13.3   | 19.4  | 15.4 | 23.3 | 19.6 |
| 2008 MWh Supply/per Acct   | 29.5   | 21.3  | 14.9   | 21.5  | 16.5 | 23.6 | 21.5 |
| net change MWh S/per Acct  | 2.1    | 3.1   | 1.5    | 2.1   | 1.2  | 0.3  | 1.9  |
| % change in MWh S/per Acct | 7.7%   | 16.9% | 11.5%  | 10.8% | 7.5% | 1.1% | 9.7% |

Source: Company returns

### Electricity and Related Water Production – 2007 & 2008

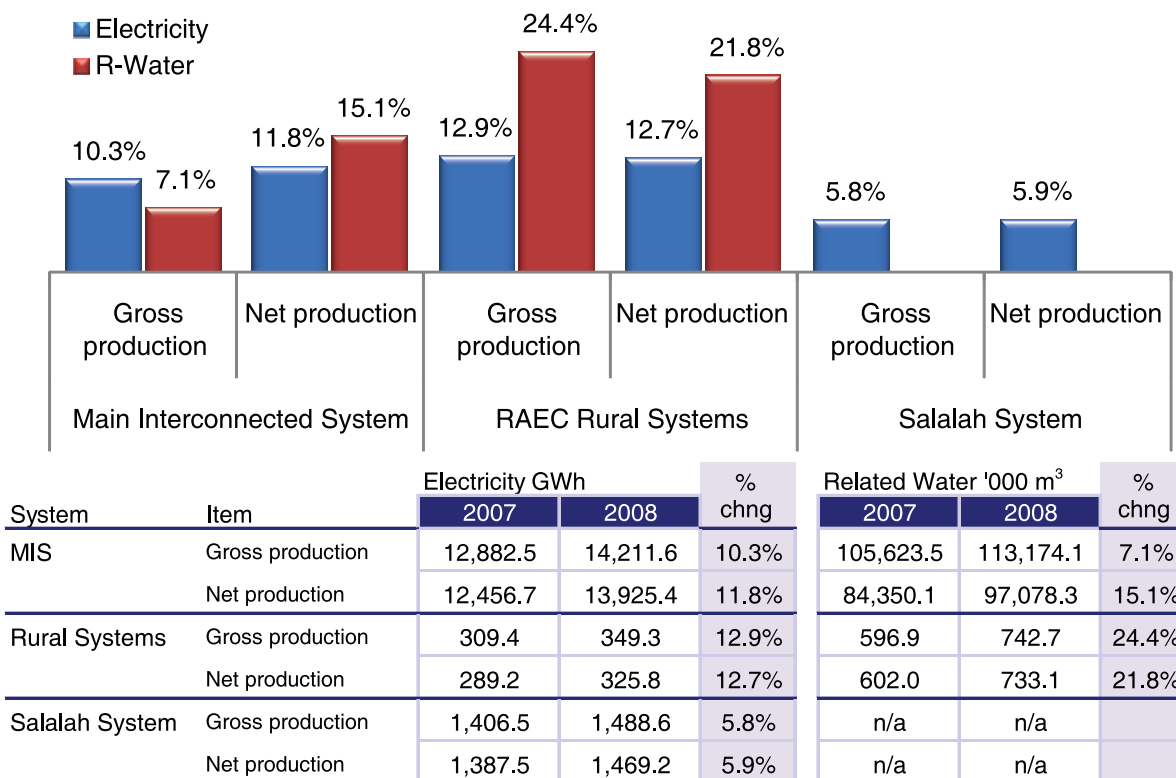
Gross electricity generation in the Sultanate was 9.9% higher in 2008 than in 2007. Net generation (including PWP purchases) was 11.2% higher than in the previous year. Total related water gross production increased by 7.2% in 2008 to 114 million m<sup>3</sup>.

Gross MIS generation increased by 10.3% in 2008, RAEC generation for rural systems was 12.9% higher than in 2007 and generation for the Salalah Power System 5.8% higher. MIS related water production was 7.1% higher in 2008 than in 2007, RAEC related water production was 24.4% higher reflecting higher production at 4 of RAEC's 5 cogeneration facilities.

Figure 5 and Table 6 of Annex C present further details of gross and net electricity and related water production in 2008.

**Figure 5: Electricity & Related Water Production by System – 2007 & 2008**

% Changes in production: 2007 to 2008



Source: Company returns

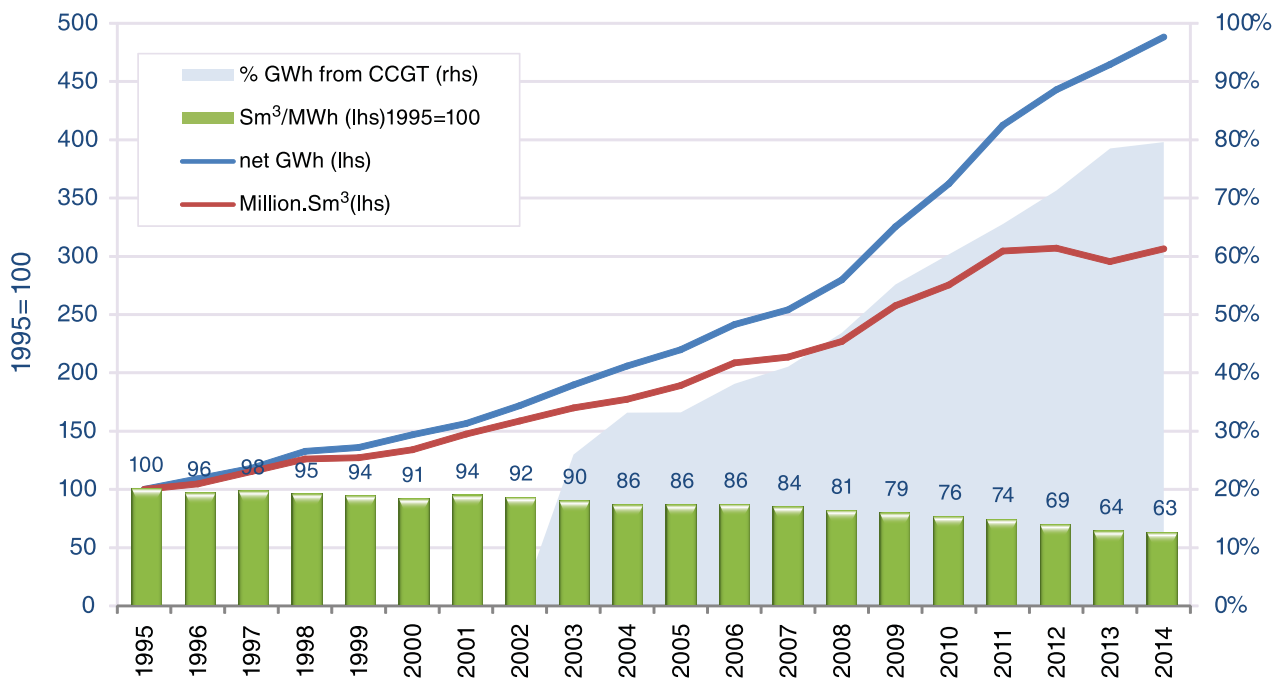
## Gas Consumption

The electricity and related water sector consumes a significant share of the Sultanate's gas reserves: reserves that are subject to competing demands and supply constraints.

In 2008, total gas used for electricity and related water production at major production facilities was 5,311 million Sm<sup>3</sup>, some 6% higher than in 2007. The increase in gas use should be viewed against increases in gross electricity and related water production of 10% and 7%, respectively.

The efficiency of gas used to produce electricity and related water has been steadily improving, and is expected to improve further. Between 1995 and 2008 net MIS electricity generation increased by 180% compared to a 127% increase in gas consumption (for both electricity and related water production). The specific gas consumption of MIS connected generation in 2008 was 356 Sm<sup>3</sup>/MWh around 19% lower than the 1995 rate of 439 Sm<sup>3</sup>/MWh. Figure 6 presents indices of net generation, gas consumption and Sm<sup>3</sup>/MWh between 1995 and 2008 and projections to 2014 (1995=100).

**Figure 6: MIS net Generation, Gas consumption and Sm<sup>3</sup>/MWh: 1995 to 2014**



Notes: 1: Sources; historic data from PWP, from 2009 PWP 7-yr statement (2009 - 2015) & Authority calculations  
 2: MIS gas fired generation only (excludes Salalah and other PWP purchases)  
 3: From 2003 50% of Al Ghubrah production is assumed CCGT  
 4: Non CCGT includes Al Kamil, Wadi Jizzi, Rusail, Manah, and 50% of total Ghubrah GWh  
 5: New capacity assumptions : Sohar II & Barka III (both in 2012) Ghubrah IWPP (in 2013)  
 6: MIS Gas consumption for both electricity and related water production

The projected improvement in gas use efficiency by 2014 anticipates two new CCGT facilities in 2012 (Sohar II and Barka III) and the Ghubrah IWPP in 2013 that will also be CCGT. As shown in Figure 6 by 2014 around 80% of total MIS net generation is expected to be sourced from CCGT facilities.

Specific gas consumption in 2014 is expected to reduce to 275 Sm<sup>3</sup>/MWh, this would be 23% lower than in 2008 and 37% lower than in 1995. These figures confirm the electricity and related water sector's commitment to ensuring gas used for electricity and related water production is used as efficiently as possible.

The principal drivers of improved gas use efficiency are increased use of CCGT, improvements in the heat rates of new facilities and the use of larger unit set sizes in new production facilities. The Authority believes improvements in economic dispatch will also contribute to gas use efficiency.

The sector is researching the availability, cost and security of supply of alternatives to gas fired generation. Initiatives being taken by the Authority (renewable energy pilot projects in RAEC systems) and the Public Authority for Electricity and Water (a feasibility study for a large scale solar plant) should accelerate the contribution of renewable energy to the Sultanate's fuel mix.

It is likely however, that future IWPP in Oman will be fuelled by coal, imported gas, or LNG. These fuels will increase electricity and related water production costs, and electricity subsidy.

The Authority will initiate public consultation in 2009 on the introduction of Cost Reflective Tariffs for large consumers of electricity to mitigate the impact on electricity subsidy of using higher cost alternatives to domestic natural gas.

### Production & Supply by Region - 2008

Figure 7 presents details of the regional distribution of electricity and related water sector activity in 2008.

Muscat Governorate continues to account for a significant share of the Sultanate's electricity and related water sector activity, although its shares of activity in 2008 were marginally lower than in 2007: 35% of gross electricity production (37% in 2007), 49% of related water production (51% in 2007), and 42% and 31% of Supply and customer accounts, respectively (compared to respective shares of 43% and 31% in 2007).

Reductions in the share of activity of Muscat Governorate reflect increased activity in other regions. For example, gross electricity and related water production in North Batinah was 22% higher in 2008 than in 2007, electricity generation in Mussandam was 13% higher than in 2007 and 18% higher in Al Wusta region.

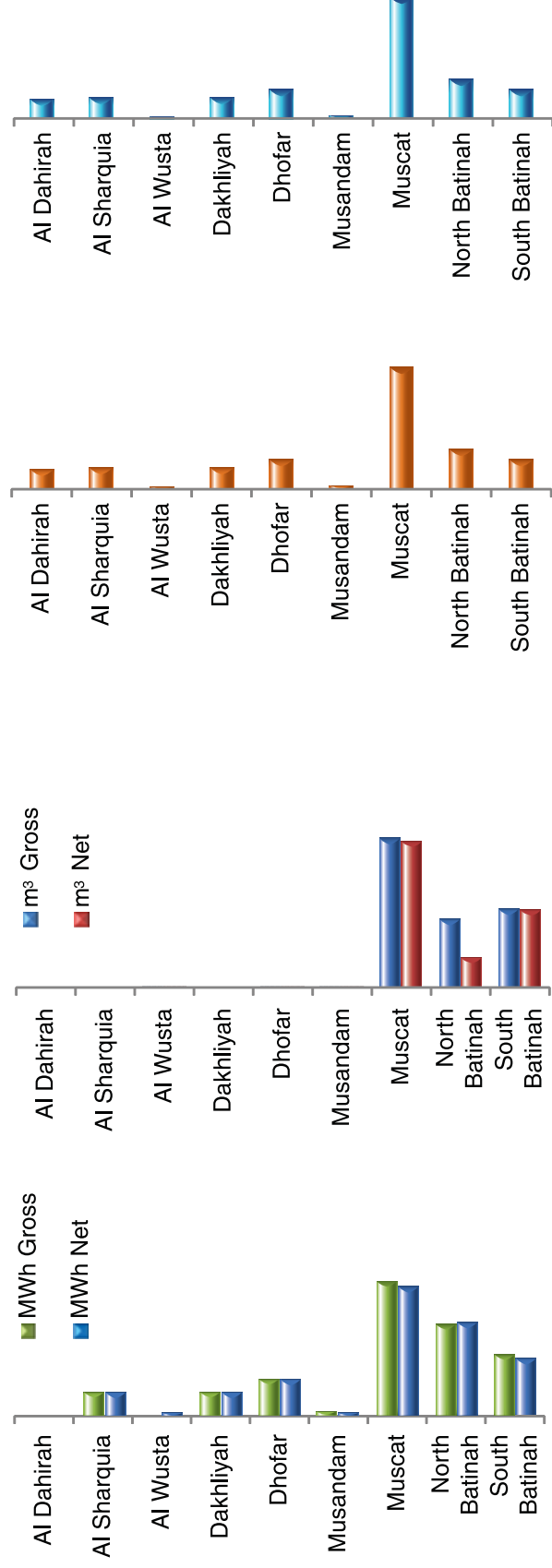
Increases in electricity and related water sector activity across regions reflect the success of government economic policies to promote economic development in all regions of the Sultanate. The electricity and related water sector has a responsibility to ensure electricity is available to sustain and support these economic policies and facilitate economic growth.



Figure 7: Activity by Region (Production, Supply, Accounts and MWh per Account) - 2008

| Regions       | Electricity Production |            | Related Water Production |                    | Electricity Supply & Accounts |          |                 |
|---------------|------------------------|------------|--------------------------|--------------------|-------------------------------|----------|-----------------|
|               | MWh Gross              | MWh Net    | m <sup>3</sup> Gross     | m <sup>3</sup> Net | MWh Supplied                  | Accounts | MWh per Account |
| Al Dahirah    | 516                    | 476        |                          |                    | 873,316                       | 54,870   | 15.9            |
| Al Sharqia    | 1,181,255              | 1,163,079  | 617,818                  | 612,760            | 950,582                       | 77,372   | 12.3            |
| Al Wusta      | 43,372                 | 96,420     | 57,346                   | 55,321             | 87,305                        | 6,281    | 13.9            |
| Dakhliyah     | 1,024,426              | 1,012,819  |                          |                    | 968,937                       | 65,965   | 14.7            |
| Dhofar        | 1,556,137              | 1,535,909  | 22,118                   | 21,918             | 1,283,114                     | 54,974   | 23.3            |
| Musandam      | 205,219                | 191,537    | 45,369                   | 43,092             | 162,313                       | 9,354    | 17.4            |
| Muscat        | 5,612,860              | 5,363,864  | 56,111,138               | 55,034,935         | 5,423,278                     | 184,073  | 29.5            |
| North Batinah | 3,794,910              | 3,919,474  | 26,619,384               | 11,893,529         | 1,776,873                     | 69,702   | 25.5            |
| South Batinah | 2,630,751              | 2,436,837  | 30,443,578               | 30,149,824         | 1,324,387                     | 74,732   | 17.7            |
| Totals        | 16,049,446             | 15,720,413 | 113,916,751              | 97,811,379         | 12,850,105                    | 597,323  | 21.5            |

Electricity Production-2008      Related Water Production-2008      Electricity Supply: MWh 2008      Electricity Accounts 2008

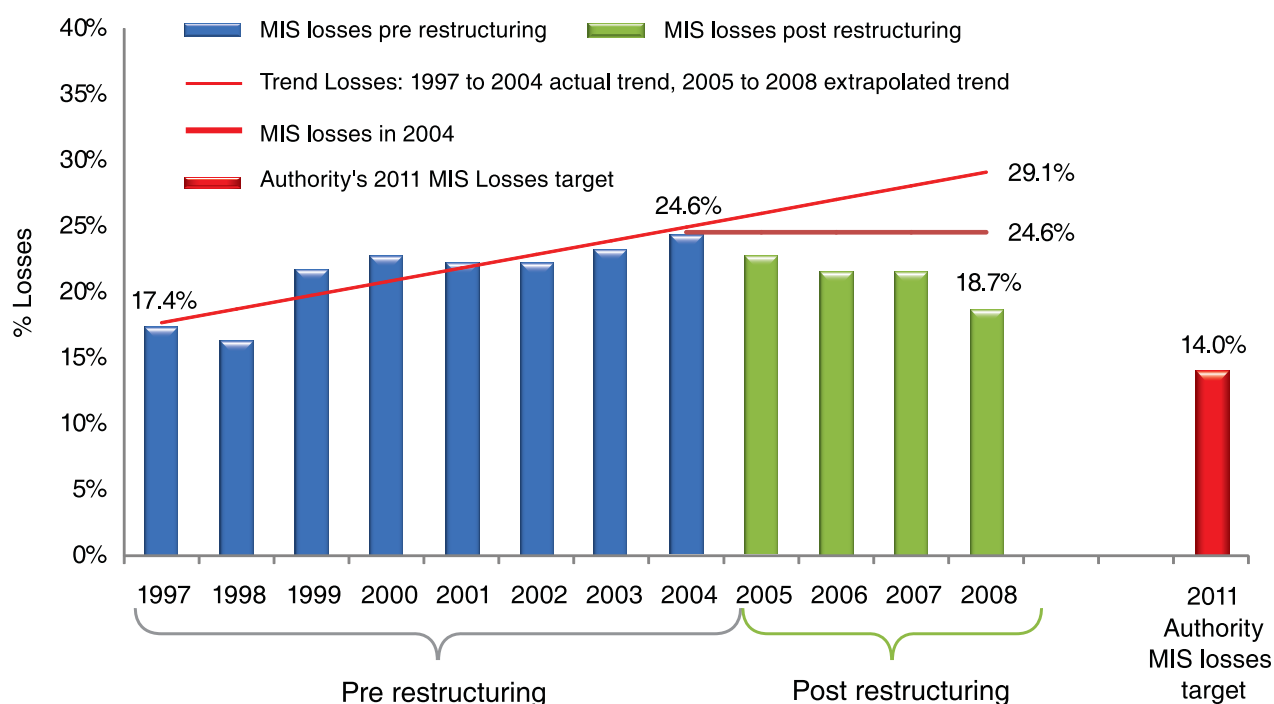


## System Losses

Technical and non-technical losses accounted for 18.4% of total units entering electricity systems in the Sultanate in 2008, a significant improvement on the 20.9% losses reported in 2007. 2008 MIS losses fell to 18.7% from 21.7% in 2007, 2008 RAEC losses at 14.2% were marginally lower than the 14.3% losses in 2007. Losses from the Salalah Power System increased from 16.2% in 2007 to 16.9% in 2008.

The Authority views system losses as a performance indicator of efficiency. Figure 8 places the reduction in 2008 MIS losses in context by showing annual MIS losses between 1997 and 2008.

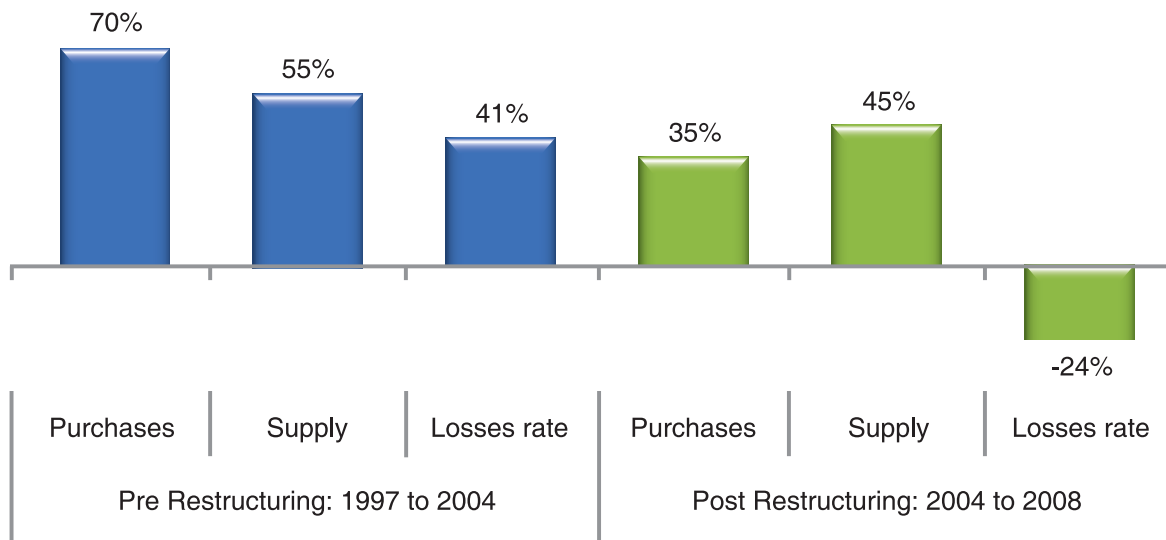
**Figure 8: MIS (technical and non-technical) Losses 1997 to 2008, 2011 Losses Target**



Source: Pre restructuring data from MHEW reports, post restructuring data from the Authority

Between 1997 and 2004 (pre-restructuring) MIS equivalent losses increased steadily from 17.4% to 24.6%. Over the same period, there was a 70% increase in electricity purchases (net MWh entering systems) and a 55% increase in Supply to customers. Had the trend increase in MIS losses between 1997 and 2004 continued through to 2008, MIS losses in 2008 would have reached 29.1%, more than ten percentage points higher than actual MIS losses in 2008. Between 2004 and 2008 MIS losses fell from 24.6% to 18.7%, a 24% reduction in the losses rate. Over the same period, electricity purchases increased by 35% and Supply to customers increased by 45%. Figure 9 summarises these performance measures pre and post electricity sector restructuring.

**Figure 9: Change in MIS Purchases, Supply and Losses rate pre and post restructuring**



Source: Pre restructuring data from MHEW reports, post restructuring data from the Authority

The Authority considers the losses reductions to be a direct result of the electricity sector restructuring, an indication of improved efficiency and a source of significant cost savings. The cost savings of lower losses can be measured in a number of ways: one approach would be to focus on marginal cost savings referenced to avoided fuel and operating costs, an alternative approach would be to add estimates of avoided network investment to avoided fuel and operating costs.

The Authority has estimated the costs savings of losses reductions assuming marginal generation costs of 10 RO per MWh:

- (i) had the trend increase in MIS losses observed between 1997 and 2004 continued through to 2008, the aggregate value of savings resulting from MIS losses reductions between 2005 and 2008 is an **estimated 32 million RO**;
- (ii) compared to the 2004 level of MIS losses, the aggregate value of savings resulting from MIS losses reductions between 2005 and 2008 is an **estimated 17 million RO**;
- (iii) the value of savings resulting from MIS losses reduction secured between 2007 and 2008 is an **estimated 4 million RO**. Assuming this reduction in costs is secured on a permanent basis, the present value of losses reductions secured between 2007 and 2008 is an **estimated 51 million RO** (at a discount rate of 8%).

The Authority has set an intermediate 2011 MIS losses target of 14%, this is shown in Figure 8. From 2009 the new price controls of Muscat, Majan and Mazoon will not provide subsidy for actual losses above agreed benchmarks. Licensees have a clear and strong incentive to reduce losses as they retain the financial benefits of reducing actual losses by more than the benchmark amounts.

The Authority has a long term target for MIS technical losses of 7% to 9%.

## System Peak Demands: MIS and Salalah Power System

Figure 10 presents monthly MIS peak demands in 2007 and 2008.

**Figure 10: Main Interconnected System Peak Demand - 2007 & 2008**

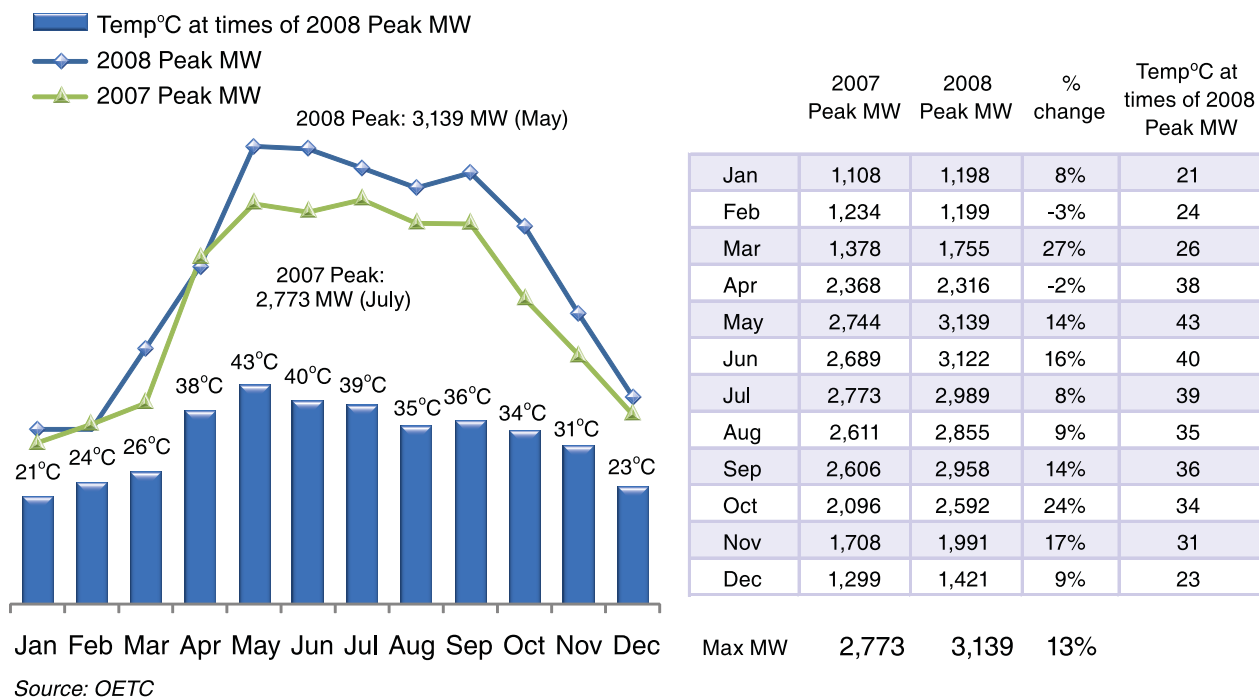
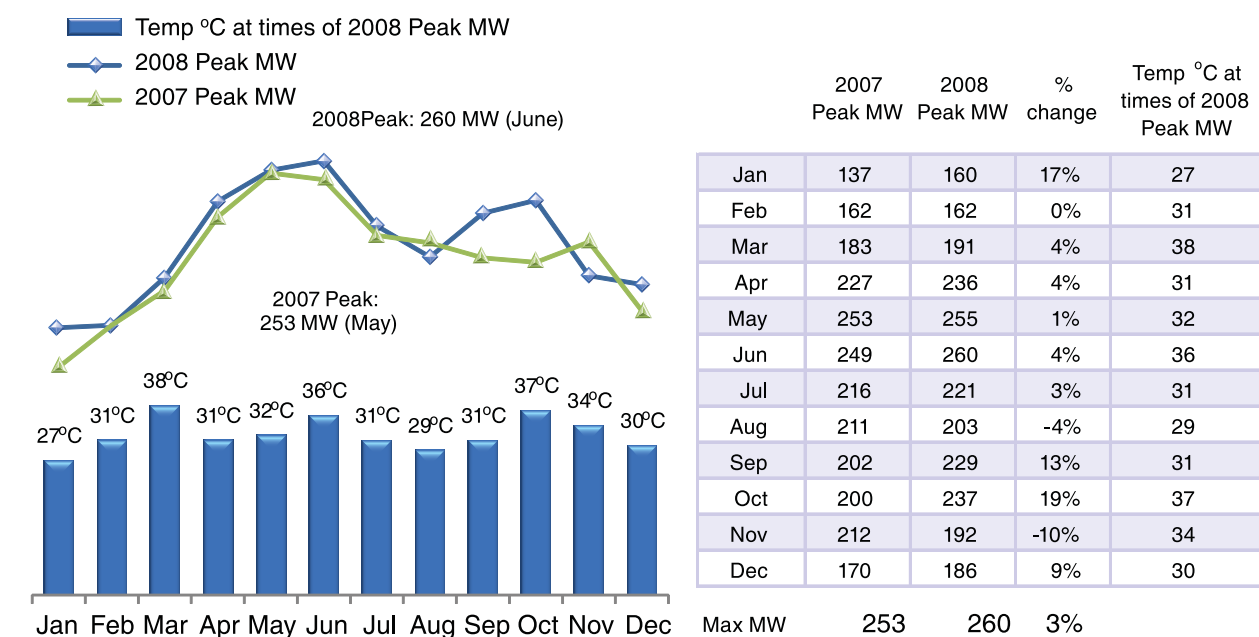


Figure 11 presents Salalah Power System monthly peak demands in 2007 and 2008.

**Figure 11: Salalah Power System Peak Demand - 2007 & 2008**



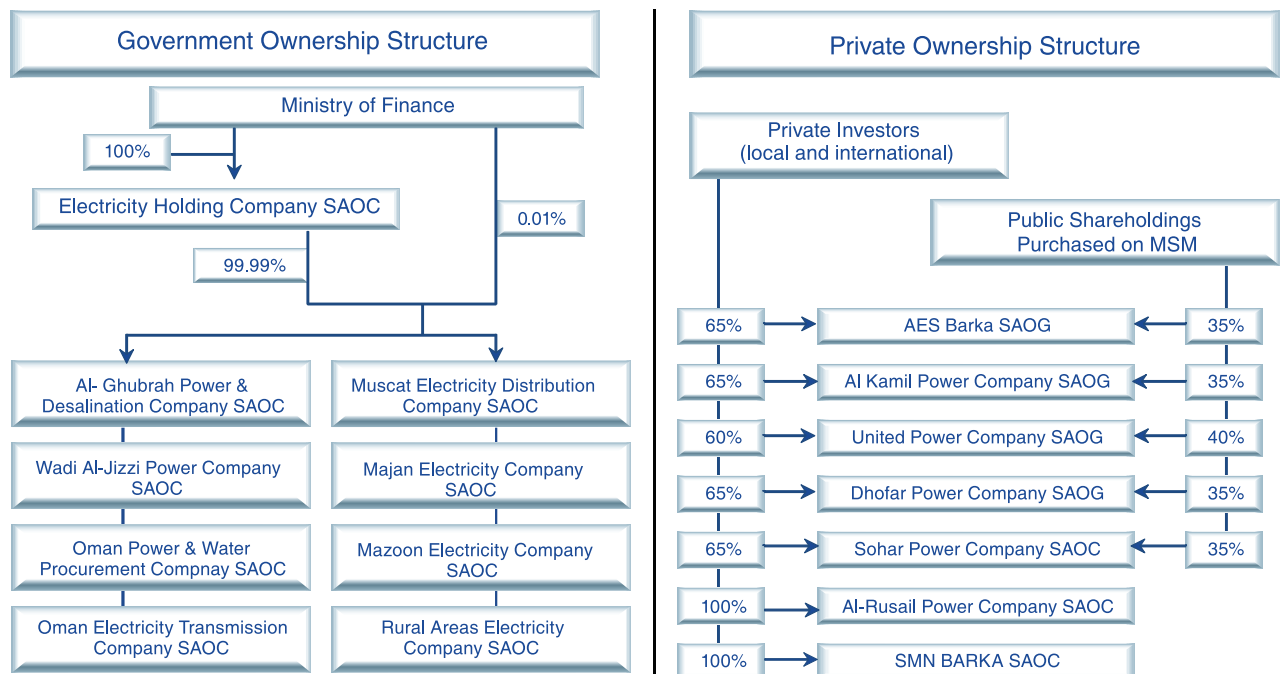
## New Capacity in 2008

MIS net electricity generating contracted capacity increased to 3,392MW in 2008 following the commission of 363MW of early power capacity at the SMN Barka facility. The SMN Barka facility will provide a total of 680MW of net power capacity and 120,000 m3 per day of desalination capacity in 2009 when it enters full commercial operation.

## Electricity & Water Sector Ownership

In July 2008 the Sohar Power Company completed an initial public offering (IPO) of 35 per cent of shares of the Sohar IWPP, majority owned by GDF Suez. The IPO was 21 times oversubscribed confirming the confidence of the Omani public and the wider investor community in electricity sector privatisation. The IPO was Oman's most successful electricity related public share offering to date: investors were offered 9,730,000 shares at 1.37 RO per share.

**Figure 12: Electricity & Related Water Sector Ownership - 2008**



Following the Sohar IWPP IPO the ownership structure of the electricity and related water sector is as shown in Figure 12.



## Approved Projects and Capital expenditure

Licensed system operators (OETC, Muscat, Majan, Mazoon and RAEC) approved 302 new projects in 2008, with a total value of 115 million RO. Figure 13 presents details of the approved projects by company, region and value.

**Figure 13: Project Approvals by Licensees in 2008**

| Region             |    | Company    |            |            |            |            | Totals      | % Total |
|--------------------|----|------------|------------|------------|------------|------------|-------------|---------|
|                    |    | OETC*      | Muscat     | Majan      | Mazoon     | RAEC       |             |         |
| Al Dahirah         | RO | 8,168,000  |            | 2,277,099  |            |            | 10,445,099  | 9.1%    |
| Al Sharqiya        | RO |            |            |            | 5,254,331  | 244,839    | 5,499,170   | 4.8%    |
| Al Wusta           | RO | 97,000     |            |            |            | 6,937,270  | 7,034,270   | 6.1%    |
| Dakhiliya          | RO |            |            |            | 3,415,855  |            | 3,415,855   | 3.0%    |
| Dhofar             | RO |            |            |            |            | 2,868,554  | 2,868,554   | 2.5%    |
| Musandam           | RO |            |            |            |            | 1,096,678  | 1,096,678   | 1.0%    |
| Muscat             | RO | 38,729,000 | 10,006,864 |            |            |            | 48,735,864  | 42.4%   |
| North Batinah      | RO |            |            | 4,773,818  |            |            | 4,773,818   | 4.2%    |
| South Batinah      | RO | 10,413,000 |            |            | 4,856,005  |            | 15,269,005  | 13.3%   |
| Other**            | RO | 3,521,000  |            | 5,094,864  | 6,989,468  | 167,373    | 15,772,705  | 13.7%   |
| Total Value:       |    | 60,928,000 | 10,006,864 | 12,145,781 | 20,515,660 | 11,314,714 | 114,911,019 |         |
| % of Total         |    | 53.0%      | 8.7%       | 10.6%      | 17.9%      | 9.8%       |             |         |
| Number of Projects |    | 11         | 54         | 78         | 130        | 29         | 302         |         |

Source: Company returns

\* Projects are categorised in the region where the project will commence

\*\* Other: includes material costs and any other costs that are not specific to one region

OETC accounts for 53% of projects by value, the highest share of all licensees, followed by Mazoon (17.9%), Majan (10.6%), RAEC (9.8%) and Muscat (8.7%).

In terms of regional investment, the 48.7million RO of investment in the Muscat region accounts for 42.4% of total approved projects by value. All regions will benefit from electricity sector investment reflecting the widespread scope of electricity related activities throughout the Sultanate.

## Employment & Omanisation

The Authority undertakes an annual survey of electricity and related water sector (ERWS) employment and Omanisation. The 2008 survey provided information on direct and indirect (contractor) employment by entity, by grade, by regulated activity and region, and nationality (Omani nationals and expatriates).

Total sector employment (direct and contractor) is increasing in line with demand and output and has risen from 5,101 in 2005 to 6,239 in 2008, a 22.3% increase. Total sector employment was 2% higher in 2008 than in 2007, please refer to Figure 14.

**Figure 14: Total ERWS Employment by Type and Function – 2007 & 2008**

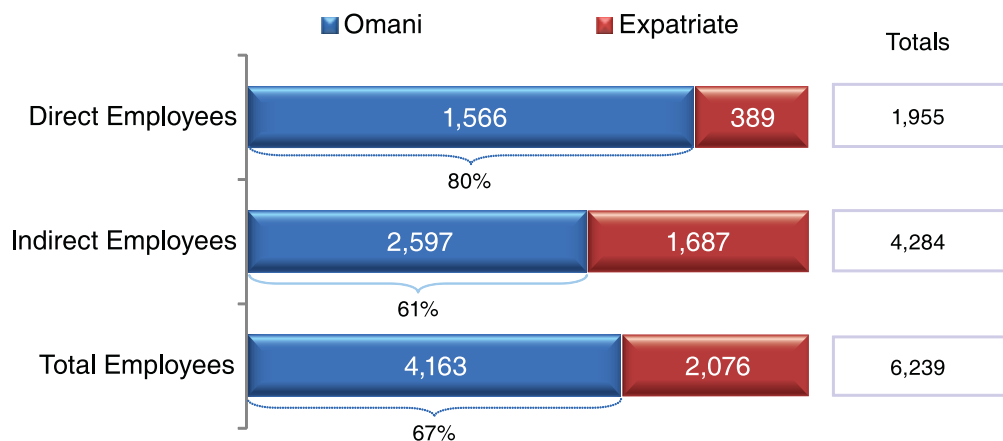
| Type             | Function            | 2007  |            |       | 2008  |            |       |
|------------------|---------------------|-------|------------|-------|-------|------------|-------|
|                  |                     | Omani | Expatriate | Total | Omani | Expatriate | Total |
| Direct           | Admin & Supervisory | 390   | 44         | 434   | 419   | 44         | 463   |
|                  | Managerial          | 79    | 37         | 116   | 120   | 46         | 166   |
|                  | Operations          | 251   | 184        | 435   | 310   | 117        | 427   |
|                  | Technical           | 592   | 123        | 715   | 626   | 178        | 804   |
|                  | Others              | 102   | 3          | 105   | 91    | 4          | 95    |
| Direct Total     |                     | 1,414 | 391        | 1,805 | 1,566 | 389        | 1,955 |
| Contractor       | Admin & Supervisory | 506   | 95         | 601   | 494   | 175        | 669   |
|                  | Managerial          | 36    | 45         | 81    | 39    | 85         | 124   |
|                  | Operations          | 1,126 | 385        | 1,511 | 905   | 214        | 1,119 |
|                  | Technical           | 684   | 180        | 864   | 466   | 1,100      | 1,566 |
|                  | Others              | 224   | 1,054      | 1,278 | 693   | 113        | 806   |
| Contractor Total |                     | 2,576 | 1,759      | 4,335 | 2,597 | 1,687      | 4,284 |
| Total Employment |                     | 3,990 | 2,150      | 6,140 | 4,163 | 2,076      | 6,239 |
| % Change on 2007 |                     |       |            |       | 0.8%  | -4.1%      | 1.6%  |

Source: Authority 2008 employment survey

Figure 15 shows the Omanisation share of direct and indirect employment in 2008.

**Figure 15: ERWS Employment & Omanisation - 2008**

|                    | Omani | Expatriate | Total | % Omani |
|--------------------|-------|------------|-------|---------|
| Direct Employees   | 1,566 | 389        | 1,955 | 80%     |
| Indirect Employees | 2,597 | 1,687      | 4,284 | 61%     |
| Total Employees    | 4,163 | 2,076      | 6,239 | 67%     |



Source: Authority 2008 employment survey

Omani nationals accounted for 80% of total direct employment in 2008 (78% in 2007), and 61% of indirect employment returning an overall Omanisation rate of 67%, 2 percentage points higher than the 65% Omanisation reported in 2007.

The Authority's employment survey highlighted important changes in the underlying composition of electricity and related water sector employment:

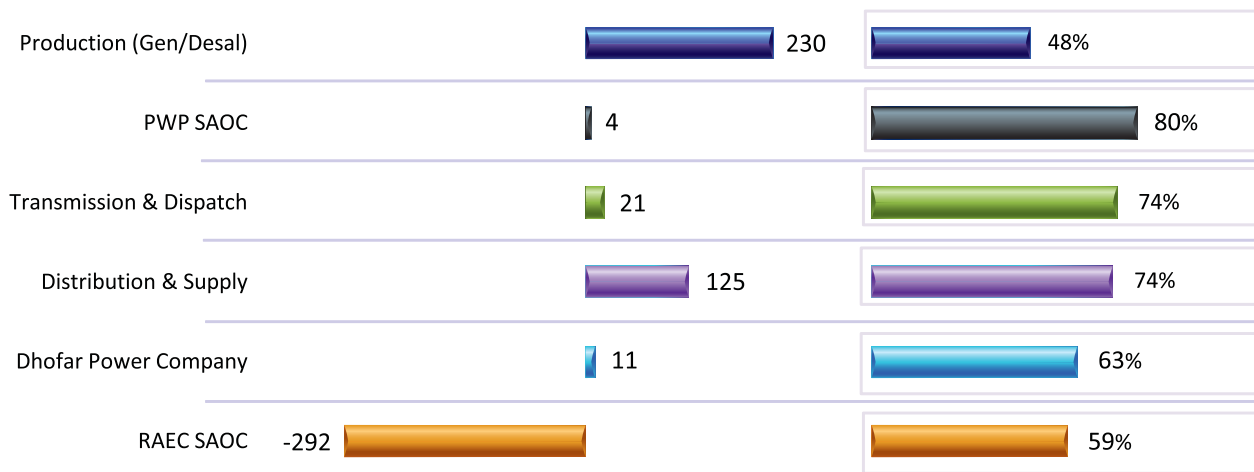
- 1) The net increase in 2008 employment of 99 employees reflects a reduction in RAEC employment of 292 and an increase of 391 new positions in other activities. RAEC is in the process of closing diesel generation stations in Al Sharquia (an area now supplied from the MIS) and relocating assets to other areas to reinforce existing systems and establish new rural systems;
- 2) Production facilities accounted for 230 (59%) of the 391 increase in 2008 employment, Distribution & Supply companies accounted for 125 (32%) of the increase.

**Figure 16: ERWS Employment & Omanisation by Activity – 2008**

| Employment by Activity  | Omani        | Expatriate   | Total        | % Omani    |
|-------------------------|--------------|--------------|--------------|------------|
| Production (Gen/Desal)  | 469          | 505          | 974          | 48%        |
| PWP SAOC                | 37           | 9            | 46           | 80%        |
| Transmission & Dispatch | 440          | 156          | 596          | 74%        |
| Distribution & Supply   | 2,397        | 862          | 3,259        | 74%        |
| Dhofar Power Company    | 199          | 118          | 317          | 63%        |
| RAEC SAOC               | 621          | 426          | 1,047        | 59%        |
| <b>Totals</b>           | <b>4,163</b> | <b>2,076</b> | <b>6,239</b> | <b>67%</b> |

**Change in Total Employment by Activity: 2007 to 2008**

**2008 Omanisation By Activity**



Source: Authority 2008 employment survey

The Authority will undertake an extended employment survey in 2009 to secure additional employment related information on issues such as employee turnover, retention rates, spending on training and development, and recruitment related challenges faced by sector companies.

## Electricity & Related Water Sector Issues - 2008

### Overseas visits

The Authority participated in a number of overseas visits in 2008:

- 1: In May 2008 the Authority visited the USA as part of an Oman delegation invited by the United States Department of Energy. The delegation visited Tampa Electric's IGCC power plant in Florida and attended the 7th Annual Conference on Carbon Capture & Sequestration in Pittsburgh, Pennsylvania;
- 2: Also in May 2008 the Chairman of the Authority attended the Global Renewable Energy Forum in Brazil and made numerous contacts that helped the Authority formulate and implement its renewable energy strategy;
- 3: In July 2008 Authority representatives visited Spain to learn more about renewable energy policies and initiatives in that country. The delegation visited the National Control Centre of Redelectrica in Madrid and observed the world's first wind energy national dispatch facility. The delegation met with a regional electricity regulator in Andalusia, visited the Solar Research Institute in Almeria, and Abengoa's CSP facilities near Seville; and
- 4: In November 2008 the Authority was part of an Oman delegation that visited renewable energy installations in Germany as guests of the German government. The delegation visited the Fraunhofer Institute for Solar Energy Systems ISE in Freiburg and travelled to Berlin for meetings with representatives of the German government and companies operating in the renewable energy sector. The delegation also attended the 9th Forum of Solarpraxis in Berlin.

### Regulation Seminar – Arab Regulators Forum

In February 2008 the Authority invited the Arab Regulators Forum to a seminar in Muscat to share experience of electricity regulation in Oman. The seminar guest of honour, H.E. Mohammed bin Nasser Al Khasibi, Secretary General of the Ministry of National Economy gave an opening address highlighting the importance of good utility regulation to sector reform. The seminar was extremely well received and helped raise the profile of Oman's electricity restructuring reforms.

### Audits

In September 2008 the Authority retained Hobbs International Metering Consultancy Ltd to conduct an audit of OETC's compliance with the Metering and Data Exchange Code of the Grid Code.

### Memorandum of Understanding – Sultanate of Oman and Tunisia

In June 2008 Dr. Saleh Al Alawi, Chairman and Member, and Amur Al Kiyumi, Member, led an official Oman delegation to Tunisia for a ceremony to mark the signing of a Memorandum of Understanding between the two countries. The Authority was invited to sign the MOU on behalf of the Sultanate by the government and to coordinate exchanges of electricity related experience, skills and know how contemplated in the terms of the MOU.

### Report on 2003 Flood Damage in Wadi Nafa'a (near Bidbid)

In April 2003 heavy rain and flooding in Wadi Nafa'a near Bidbid caused extensive damage to housing in the surrounding area and, very regrettably, loss of life. Bidbid citizens were concerned that the flooding and damage to housing had been caused by protective walls around three Over Head Line (OHL) steel towers located in the wadi. All three towers suffered flood damaged, and in one case a tower collapsed and was damaged beyond repair. Bidbid citizens were concerned about the reoccurrence of flooding and the risk this posed to the health and safety of citizens.

The Bidbid Wali sought the Authority's intervention to secure the removal of the remaining flood wall protection. After an initial site visit the Authority formally investigated the matter pursuant to its duty to safeguard the health and safety of the Public. The Authority retained Lahmeyer International to assess:

- 1) the extent to which flooding and resulting damage had been caused by flood water diverted by the OHL tower flood protection;
- 2) the risk to the OHL towers of removing the tower flood protections and to identify alternative means of protecting the towers in ways that would not divert water to local housing; and
- 3) Evaluate options for relocating the towers away from the wadi and the associated cost of each option.

Following a detailed investigation, Lahmeyer reached the following conclusions:

- 1) Damage to the houses and property in close vicinity of the OHL towers in 2003 could not be directly and fully attributed to the flood protection. However, analysis indicated that the tower flood protection had reduced the cross-section of the wadi, which increased flow velocity and resulted in intensified scouring and damage to houses. While the OHL tower flood protection may have exacerbated damage to housing and property, they were not the principal or sole cause of the damage; and
- 2) The OHL tower protection was subject to design flaws that did not take sufficient account of the effects of scouring and did not therefore adequately protect the towers. Lahmeyer recommend the remaining tower flood protection be removed, and the tower foundations reinforced and anchored to solid rock, and clearances below the supporting cross-beam structures heightened.

The Authority provided copies of Lahmeyer's report to the Bidbid Wali, the United Power Company SAOC, the Oman Electricity Transmission Company SAOC and the Public Authority for Electricity and Water. The Authority expects the report's recommendations to be implemented in 2009.

## Incidents

### Mobaila Fatal Incident - 23rd April 2008

On 23 April 2008 at around 13:00 hrs a Muscat Electricity Distribution Company maintenance team was conducting maintenance work on an 11 kV overhead line. One of the MEDC team members climbed a pole carrying a live circuit. He was electrocuted and fell down the pole sustaining fatal injuries. The Authority commissioned a formal investigation in coordination with the office of the Public Prosecutor. The investigation identified several shortcomings in the implementation of the MEDC Safety Rules. The main causes of the incident were the failure to test the line before commencement of work in accordance with MEDC Safety Rules and procedures and the failure to apply additional earths on the work site. The investigation also identified shortcomings in the management of Health and Safety within MEDC. The investigation report made recommendations to improve the management of Health and Safety in MEDC to prevent the reoccurrence of similar incidents. The Authority issued its Investigation report on 6 July 2008 and submitted copies to MEDC and the Public Prosecutor. On 18 August 2008 the Public Prosecutor decided not to pursue charges against MEDC and closed the case.



### **Al Kamil Incident - 3rd June 2008**

On 3rd of June 2008 following trips of two transmission circuits between Al Wasit and Wadi Jizi in the Buraimi region, a loss of power at Al Kamil power station resulted in Supply interruptions in the Al Sharqyah Region. Approximately 600 MW of demand was shed during the incident. At the request of the Authority OETC engaged a consultant to undertake the investigation. The Technical Directorate worked closely with OETC and the Consultant during the investigation. The investigation recommended changes to protection settings and revised operational procedures that have been implemented by OETC.

### **Quriyat Fatal Incident - 6th July 2008**

On 6th July 2008 MEDC alerted the Authority to an incident that occurred on their system in Quriyat. The Authority initiated a formal investigation into the incident and informed the office of the Public Prosecutor. The investigation found that at around 7:15 AM an emergency contractor working for MEDC was working on an 11 kV overhead line replacing a faulty dropout fuse. At that time the Quriyat Area was subject to planned Load shedding from 33 kV feeders of a Grid Station. The emergency contractor Supervisor instructed one of his linemen to commence work on the dropout fuse without a permit to work. The lineman followed the instructions and did not apply isolation or additional protective earthing on the line. When electricity was restored and the un-isolated 11 kV line charged the electrician was electrocuted and fell from the pole sustaining injuries that caused his death several days later. The Investigation report identified numerous shortcomings in the management of Health and Safety and the Health and Safety Culture within MEDC, and raised concerns relating to the management of Health and Safety of contractor work. The Investigation report included an evaluation of the implementation of recommended actions arising from the Mobaila incident and concluded that a number of recommendations had not been fully implemented with the required degree of urgency. The Authority issued its Investigation report on 18 August 2008 and provided copies to MEDC and the Public Prosecutor. The Public Prosecutor brought charges against the contractor supervisor - the case is ongoing.

### **MEDC Health and Safety Audit**

Investigation of the Mobaila and Quriyat fatal incidents has prompted the Authority to conduct a full Health and Safety Audit of MEDC as part of the Authority's 2009 work programme.

### **Ibri Fatal Incident - 17 August 2008**

At around 13:20 on 17 August 2008 at Ibri on the network of Majan Electricity Company a lineman working for a contractor sustained fatal injuries after being electrocuted. The Authority commissioned a formal investigation in coordination with the office of the Public Prosecutor. The investigation found the lineman had been electrocuted while changing an overhead line to underground cable. The contractor had not executed the work in accordance with MJEC Safety Rules and instructions. The lineman was not wearing suitable gloves as required by the Safety Rules.

The Investigation Report concluded that "if the requirements of the MJEC Safety Rules and the instruction for working on the live overhead lines had been followed there would have been no incident." The Investigation Report made a number of recommendations for immediate implementation.

The Authority issued its Investigation Report on 22 October 2008 and provided copies to MJEC and the Public Prosecutor. The Public Prosecutor did not bring charges against any Persons involved in the incident and closed the case.

### **Appropriate Person criteria**

In December 2008 Members approved a modification to the Appropriate Person criteria published in accordance with Article (22) paragraph 18 of the Sector Law. The Authority can only grant authorisations (licences and licence exemptions) to conduct a regulated activity to Persons who comply with criteria.

In the course of the Salalah IWPP investigation the Authority became concerned that certain entities afforded insufficient consideration to Article (80) of the Basic Law which states that: "No body in the State may issue rules, regulations, decisions or instructions which contravene the provisions of laws and decrees in force ... which constitute part of the law ..."

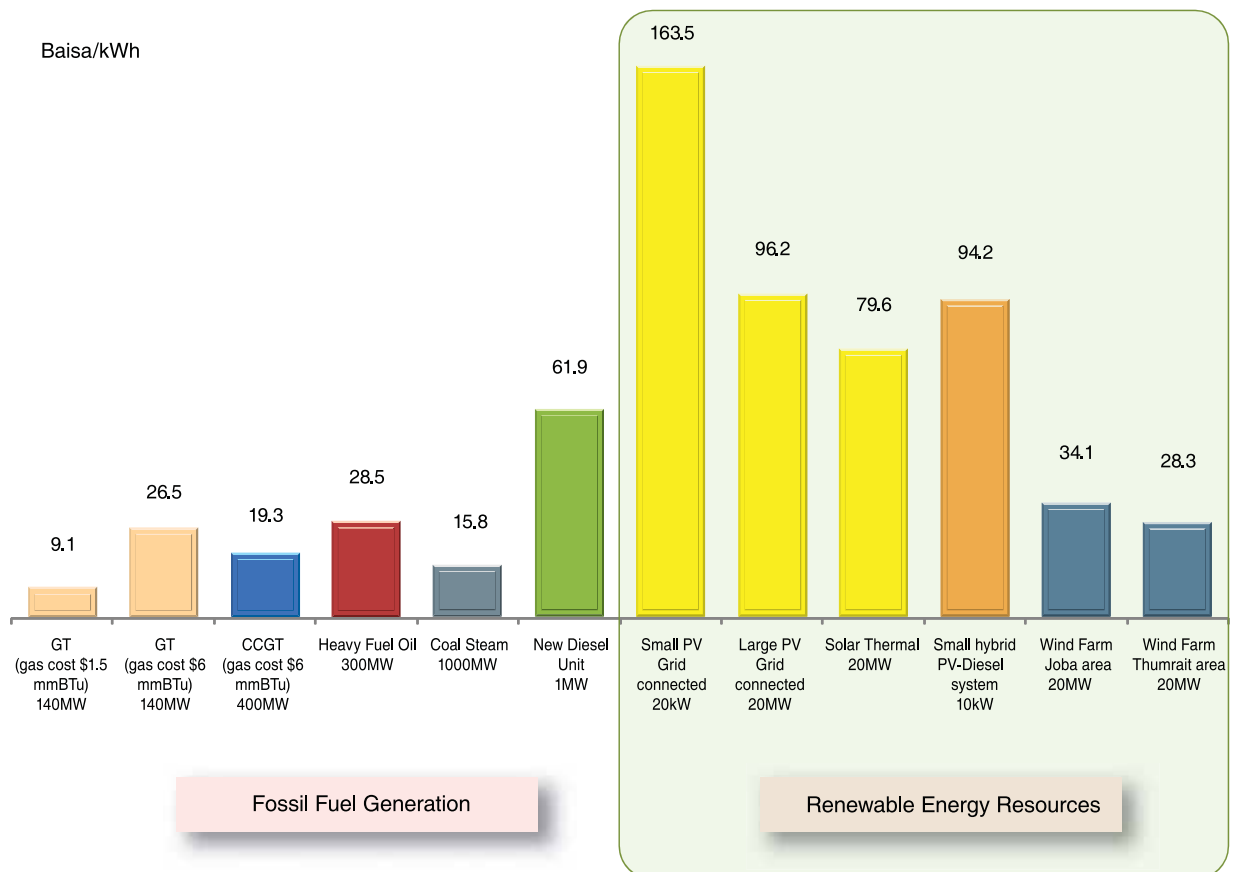
Members approved the following modification to the Appropriate Person criteria:

"Pursuant to Article 80 of the Basic Law of the Sultanate of Oman (promulgated by Royal Decree 101/90), the Authority will not grant a Licence if to do so would result in a contravention of the provisions of any laws and decrees, or any agreements which constitute part of the laws of the Sultanate of Oman."

## Regulatory Focus - Renewable Energy

In May 2008 the Authority published a study it had commissioned to assess the Sultanate's renewable energy potential. The Study identified significant potential for electricity production using Solar and Wind based technologies. The Study compared the cost of electricity produced using fossil fuels with the cost of electricity produced using renewable energy, see Figure 17.

**Figure 17: Electricity production Costs – Fossil Fuels vs Renewable Energy**



Source: Authority Renewable Energy Study – May 2008

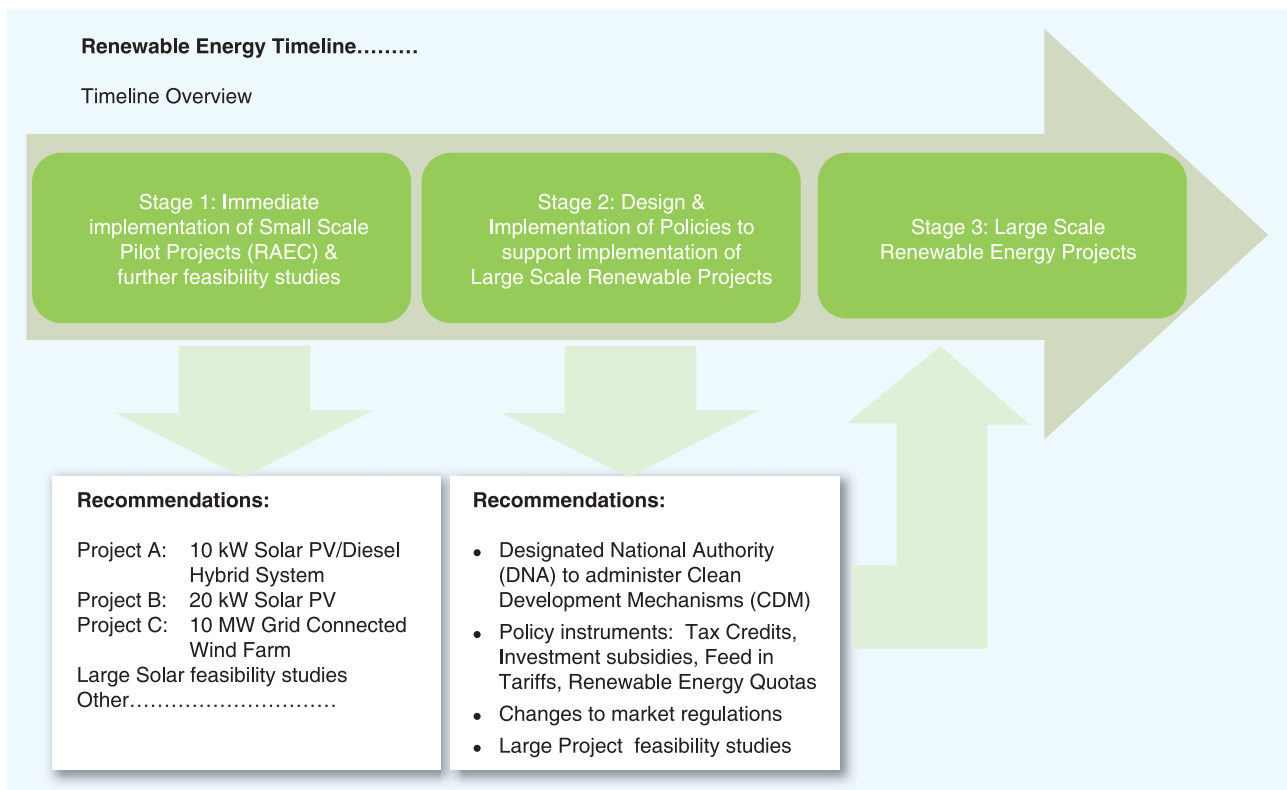
Solar electricity production costs are presently higher than the cost of electricity produced using conventional fossil fuel technologies. The cost of Wind based electricity production is similar to fossil fuel generation (Wind costs are lower than diesel generation but higher than electricity produced using natural gas). These comparisons are sensitive to a range of assumptions including fuel and capital costs and do not reflect anticipated reductions in renewable energy production costs (large scale solar in particular) that the Study suggests will see some convergence of costs. The costs presented in Figure 17 do not reflect the environmental costs of fossil fuel use or the environmental benefits of renewable energy, although the Study presented sensitivity analysis showing the increase in fossil fuel costs (and reductions in renewable energy costs) assuming a carbon trading credit of 25.5 US\$ per ton of CO<sub>2</sub>.

The Study made recommendations to support the widespread implementation of renewable energy projects in Oman:

- (1) the establishment of a Designated National Authority to administer the UN clean development mechanism that provides funding for renewable energy investments;
- (2) the immediate implementation of pilot projects in rural areas in coordination with RAEC;
- (3) Tax Credits and Investment Subsidies to promote renewable related investments;
- (4) a quota that would require renewable energy to account for a stipulated percentage of total electricity generation capacity by, say, 2020;
- (5) changes to existing electricity market regulations to allow licensed distribution companies to purchase electricity from renewable energy facilities;
- (6) the promotion of Oman based manufacturing of renewable energy products and the establishment of renewable energy support services; and
- (7) Feasibility studies to confirm potential locations and costs of large scale solar plant, including Concentrated Solar Power.

The Authority supports these recommendations and is working with competent authorities to promote and support their implementation. The Authority views the recommendations as comprising a three stage renewable energy strategy; this is summarized in Figure 18.

**Figure 18: Renewable Energy Implementation Strategy**





- Stage 1: is the immediate implementation of pilot renewable energy projects in rural areas in coordination with RAEC;
- Stage 2: is the design and implementation of policies to encourage and support investment in renewable energy so as to ensure projects are developed in a systematic, coordinated, economic and sustainable manner. Stage 2 also involves further studies to confirm the feasibility of large scale solar; and
- Stage 3: is the implementation of large scale renewable energy projects in Oman.

The Authority has invited RAEC to identify possible locations for diesel hybrid pilot projects, and make information available to potential developers. Several international and local companies have expressed interest in developing pilot projects within the preliminary framework developed by the Authority and have submitted pilot project proposals to the Authority for approval.

In April 2009 PAEW issued a tender to retain specialist consultants to undertake a full feasibility study for a large scale solar plant in Oman. The feasibility study is expected to be completed in 2009 following which the PWP will initiate a fair and transparent competition for what would be Oman's first large solar power facility.

In May 2009 the Authority hosted Renewable Energy and Energy Efficiency seminars at the Al Bustan Palace Hotel, Muscat. The Seminars included presentations by international experts and brought together policy makers, industry specialists and electricity sector companies for roundtable discussions of various issues (Seminar agendas and copies of presentations are available on the Authority's web site [www.aer-oman.org](http://www.aer-oman.org)).

## Regulatory Focus - Article 147 Investigation

In February 2007 the Tender Board on behalf of the PWP issued documentation inviting interested bidders to pre qualify for a competition for a new IWPP in Salalah. The PWP is required by the Sector Law and the PWP licence, to conduct fair and transparent competitions for new capacity and output. The Sector Law requires the Authority to ensure PWP conducts fair and transparent competitions.

The Salalah IWPP competition documentation envisaged the submission of bids by February 2008. In response to various requests the bid submission deadline was extended and three bids were submitted to the Tender Board on 16 June 2008.

In January 2008 changes to the PWP Board of Directors included the appointment of a full time employee of Bank Muscat (Bank Muscat's General Manager, Wholesale Banking and, in that capacity, head of Corporate Finance and Advisory). The Director in question was also appointed chairman of PWP's internal audit committee.

In February 2008, PWP through the Tender Board awarded Bank Muscat a contract to provide financial advisory services for a new green field IWPP (not the Salalah IWPP).

In May 2008, the Authority sought clarification of what safeguards PWP had in place to manage the conflict of interest arising in relation to Bank Muscat's advisory contract with PWP. In May 2008 PWP reassured the Authority that the financial advisory contract had been awarded before the Director in question was appointed and that the then Chairman of PWP had asked for arrangements to be put in place to avoid any future conflicts of interest.

In June 2008, PWP informed the Authority that it had received three bids for the Salalah IWPP. One bidder, Sembcorp had prequalified in 2007 as a single entity but in February 2008 secured Tender Board approval for the Oman Investment Company (OIC) to join it in a bidding consortium with a 40% share. PWP did not provide any further details on OIC and did not identify its shareholders. When PWP provided this information to the Authority in September 2008, it emerged that Bank Muscat had a 5% shareholding in OIC, and would therefore have an economic interest in the Salalah IWPP if the Sembcorp/OIC consortium were to be awarded the Salalah IWPP project.

In September 2008, PWP informed the Authority that a preferred bidder for the Salalah IWPP had been identified: the Sembcorp/OIC consortium. The Authority wrote formally to PWP to express concern about a potential conflict of interest and requested clarification of safeguards in place to manage the apparent conflicts.

In October 2008, having received insufficient reassurances from the PWP the Authority launched a formal investigation into the Salalah IWPP competition as it was required to do by Article (147) of the Sector Law. The investigation focused on suspected irregularities in the arrangements for handling conflicts of interest on the part of directors of the PWP, and their possible effect on the Salalah IWPP competition. The Authority's investigation established that:

- (a) during the course of the Salalah IWPP competition a director of the PWP had an indirect economic interest in the award by PWP of the contract for the Salalah IWPP. The PWP director repeatedly failed to declare this interest as he was required to do and failed also to declare his interest in the green field advisory contract awarded by PWP to the Advisory unit of Bank Muscat in February 2008;
- (b) the PWP director and PWP failed to take appropriate steps to neutralise the conflict of interest, a conflict that could have jeopardized the fairness of the Salalah competition;
- (c) if the consortium in which the PWP Director's employer had an economic interest were to win the competition for the Salalah IWPP while the director remained on the PWP Board, the Authority would not have granted the consortium the required licence. As the PWP director resigned from the PWP Board during the course of the Authority's investigation, the conflict of interest was removed;
- (d) having conducted a rigorous investigation the Authority was able to confirm the Salalah IWPP competition had up to the time of the director's resignation been conducted fairly, and that the conflict of interest did not, in fact, affect the competition, although it could have done so;

- (e) the investigation found no evidence of any wrongdoing on the part of Sembcorp or OIC;
- (f) the Salalah competition was conducted in accordance with PWP's transparency obligations to bidders; and
- (g) the investigation identified serious shortcomings in PWP's approach to sound corporate governance and concluded this was an area in need of significant improvement.

The Authority was disappointed by PWP's attitude to some of its regulatory obligations and on 13 April 2009 issued a formal order under Conditions 6 and 8 of PWP's licence requiring material changes in the nature, amount and quality of information which it provides to the Authority in connection with future competitions and the timeliness with which that information must be provided, including:

- (a) the number of bids received in a competition, and the names and addresses of the persons whom it intends to pre-qualify;
- (b) the name and address of every bidder whom it intends to shortlist in the competition;
- (c) the name and address of every person who has a legal or beneficial interest of 5% or more of the issued share capital of a bidder, or who has the power, in any other way, to control or materially influence the affairs of the company in question;
- (d) any proposed change to the composition or economic interests (including roles and obligations) in any group of bidders; the information provided must state the nature and extent of the respective interests and roles of the companies in the group in question;
- (e) copies of all written communications between PWP and the Tender Board in relation to the competition; and
- (f) information as to any actual, potential or apparent conflict of interest which has arisen or may arise in or in connection with the competition.

On 6th May 2009 a copy of the investigation report was placed on the Authority's Public Register thereby fulfilling one of the transparency obligations placed on the Authority by the Sector Law. Persons with an interest in the electricity and related water sector are allowed access to the Public Register to review all information on it.

The Salalah IWPP investigation was thorough, and concerned a matter of considerable importance to the integrity of the system for the award of contracts for new capacity by PWP. As a result of the Authority's intervention the serious corporate governance failings within PWP identified during the course of the investigation did not adversely affect the conduct of the Salalah IWPP competition.

The reputation of Oman, and in particular of its electricity and related water sector, for fairness, transparency and integrity in business is precious, and the Authority is committed to vigilant compliance monitoring and timely intervention to protect it. The investigatory action taken by the Authority and the regulatory order issued to the PWP concerning the conduct of future competitions for new capacity and output – will reassure industry players and potential participants in the soundness and conspicuous fairness of our system.



## ARTICLE (29) REPORTING

### Further Market Liberalisation

Figure 19 presents the Authority's assessment of the possible implementation of the four Liberalisation measures identified in the Sector Law.

**Figure 19: Further Market Liberalisation**

| Liberalisation measure   | Authority's assessment of market readiness:  |
|--|--|
| 1. Disposal of the Government's interest in the Electricity Holding Company SAOC or the Oman Power and Water Procurement Company SOAC  | <p><b><i>The Authority does not consider the market ready for this liberalisation measure.</i></b></p> <p>The Authority does not believe customers, investors or the government would benefit from the implementation of this measure at the present time. <b><i>The Authority does not propose to take steps to prepare the market for the implementation of this measure.</i></b></p>  |
| 2. Permitting licensed Production Facilities to sell to persons other than Oman Power and Water Procurement Company SAOC   | <p><b><i>The Authority does not consider the market ready for this liberalisation measure.</i></b></p> <p>Implementation of this measure would imply a significant change to the risk allocation of existing contracts (PPA and PWPA), and require a reassessment of the Generation Security Planning Standard. <b><i>The Authority will consult with interested persons in 2009 to assess interest in and the implications of this liberalisation measure</i></b></p>   |
| 3. Permitting persons other than Oman Power and Water Procurement Company SAOC and the Rural Areas Electricity Company SOAC to Import or Export electricity from or to another country | <p><b><i>The Authority does not consider the market ready for this liberalisation measure.</i></b></p> <p>Preparations for the commissioning of the main Oman – UAE interconnector are at an advanced stage, as are discussions on the establishment of the GCC Interconnection Authority. <b><i>The Authority will consult with interested persons in 2009 to assess interest in and the implications of this liberalisation measure.</i></b></p>   |
| 4. Creation of competition amongst Licensed Suppliers  | <p><b><i>The Authority does not consider the market ready for this liberalisation measure but believes this would be achievable within 4 years.</i></b></p> <p>The Authority believes implementation of this measure would have significant benefits for customers and views its implementation as an important and achievable objective. The Authority has implemented separate distribution and Supply price controls from 1 January 2009 that, in conjunction with the further development of separate regulatory accounting requirements, will facilitate the introduction of Supply competition within 4 years.</p> <p>The Authority believes the entry of new Licensed Suppliers will promote competition and raise standards of customers service that, four years after the sector restructuring, remain at unsatisfactory levels.</p> |

## Electricity Subsidy

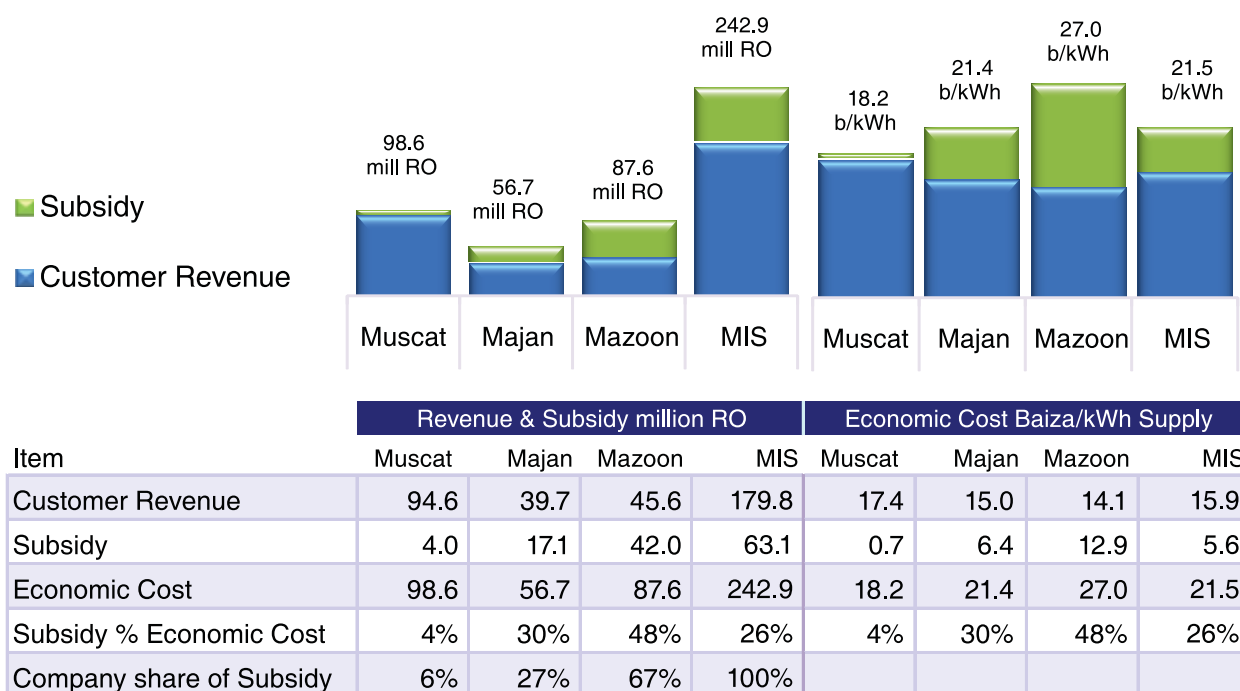
Article (18) of the Sector Law implements a mechanism through which the Ministry of Finance provides electricity subsidy calculated by the Authority to four licensed suppliers (Muscat, Majan and Mazoon and the RAEC) on an annual basis. The Authority undertakes two separate subsidy calculations: the first calculates MIS subsidy required by Muscat, Majan and Mazoon, the second calculates RAEC subsidy.

Subsidy is defined as the difference between the economic cost of Supply (including financing costs) and Permitted Tariff (and other) revenue. Economic Supply costs are derived as the sum of PWP, OETC, and Muscat, Majan and Mazoon and RAEC price control Maximum Allowed Revenues (MAR). Subtracting customer tariff revenue (and other income) from the MAR identifies the electricity subsidy requirement in a particular year.

## MIS Subsidy

Figure 20 presents outturn MIS subsidy in 2008 by company.

**Figure 20: 2008 MIS Outturn Subsidy by Company**



Source: 2008 audited SCRC Statements & Authority calculations

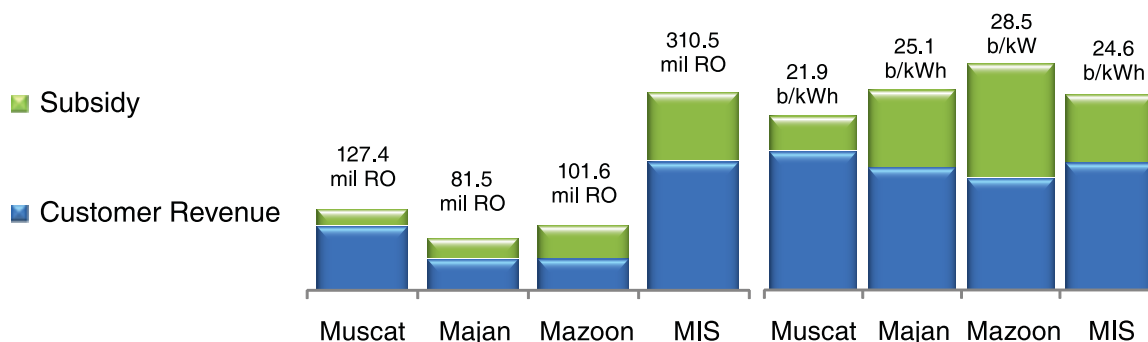
Outturn MIS subsidy in 2008 was **63.1m RO**, this is 8.6 m RO lower than forecast in our 2007 Annual Report. Lower than expected 2008 Subsidy was primarily the result a significant increase in Customer Revenue. The 17% growth in 2008 customer revenue reflects a 16% growth in units supplied and a marginally improved rate of revenue collection.

Total 2008 MIS subsidy (63.1m RO) accounted for 26% of the total economic cost of Supply (242.9m RO). Mazoon, Majan and Muscat accounted for 67%, 27% and 6%, respectively, of the total 2008 MIS subsidy. Mazoon continues to have the highest subsidy requirement per kWh at 12.9 baiza/kWh, while Majan had a requirement of 6.4 baiza/kWh and Muscat a requirement of just 0.7 baiza per kWh. The subsidy required by each company reflects differences in customer mix and differences in the characteristics of their respective distribution systems.

## 2009 MIS Subsidy Forecast

The Authority expects MIS subsidy of 107.5m RO in 2009, 44.4m RO higher than outturn MIS subsidy in 2008. The increase in MIS subsidy reflects expected increases in economic costs and customer revenues of 28% and 13%, respectively. Figure 21 presents the Authority estimates of 2009 MIS subsidy by company.

Figure 21: Subsidy Forecast - Main Interconnected System 2009



| Item                     | Revenue & Subsidy million RO |       |        |       | Economic Cost Baiza/kWh Supply |       |        |      |
|--------------------------|------------------------------|-------|--------|-------|--------------------------------|-------|--------|------|
|                          | Muscat                       | Majan | Mazoon | MIS   | Muscat                         | Majan | Mazoon | MIS  |
| Customer Revenue         | 102.0                        | 50.3  | 50.7   | 203.0 | 17.5                           | 15.5  | 14.2   | 16.1 |
| Subsidy                  | 25.4                         | 31.2  | 50.9   | 107.5 | 4.4                            | 9.6   | 14.3   | 8.5  |
| Economic Cost            | 127.4                        | 81.5  | 101.6  | 310.5 | 21.9                           | 25.1  | 28.5   | 24.6 |
| Subsidy % Economic Cost  | 20%                          | 38%   | 50%    | 35%   | 20%                            | 38%   | 50%    | 35%  |
| Company share of Subsidy | 24%                          | 29%   | 47%    | 100%  |                                |       |        |      |

Source: Authority calculations

For further details of 2008 outturn MIS subsidy and the Authority's estimate of MIS subsidy in 2009, please refer to Annex D.

### Underlying Movement in MIS Subsidy: 2006 to 2009

Figure 22 presents the Authority's underlying measure of MIS subsidy in 2006, 2007, 2008 and expected MIS subsidy in 2009. The underlying measure assumes revenues, costs and efficiencies were correctly forecast between 2006 and 2008 so as to return zero correction factors. The estimate of MIS subsidy in 2009 reflects the 2009 MAR of PWP, OETC, Muscat, Majan and Mazoon and assumed growth in Supply (regulated units distributed) of 11.7%.

**Figure 22: Underlying Movement in MIS Subsidy: 2006, 2007, 2008 and 2009 Forecast**

| Economic Cost (RO m)                           | 2006         | 2007         | 2008         | 2009 (e)     |
|--|--------------|--------------|--------------|--------------|
| PWP (MAR excluding $K_t$ )                     | 140.5        | 144.5        | 161.2        | 180.2        |
| OETC (MAR excluding $K_t$ )                    | 26.5         | 27.9         | 31.5         | 38.3         |
| Muscat (MAR excluding $K_t$ )                  | 22.8         | 23.8         | 23.9         | 32.2         |
| Mazoon (MAR excluding $K_t$ )                  | 23.0         | 24.2         | 27.6         | 36.6         |
| Majan (MAR excluding $K_t$ )                   | 16.6         | 17.8         | 19.6         | 26.2         |
| <b>Underlying Economic Cost</b>                | <b>229.6</b> | <b>238.2</b> | <b>263.8</b> | <b>313.5</b> |
| Permitted Tariff (& other) Revenue             | 143.1        | 153.9        | 179.8        | 203.0        |
| <b>Underlying Economic Subsidy Requirement</b> | <b>86.5</b>  | <b>84.3</b>  | <b>84.0</b>  | <b>110.5</b> |
| Regulated Units Distributed (GWh)              | 9,194        | 9,778        | 11,317       | 12,645       |

|   |             |             |             |             |
|---|-------------|-------------|-------------|-------------|
| Underlying Economic Cost per kWh Supplied           | 25.0        | 24.4        | 23.3        | 24.8        |
| Customer Revenue per kWh Supplied (bz/kWh)          | <b>15.6</b> | <b>15.7</b> | <b>15.9</b> | <b>16.1</b> |
| <b>Underlying Subsidy per kWh Supplied (bz/kWh)</b> | <b>9.4</b>  | <b>8.6</b>  | <b>7.4</b>  | <b>8.7</b>  |

Source: Authority calculations

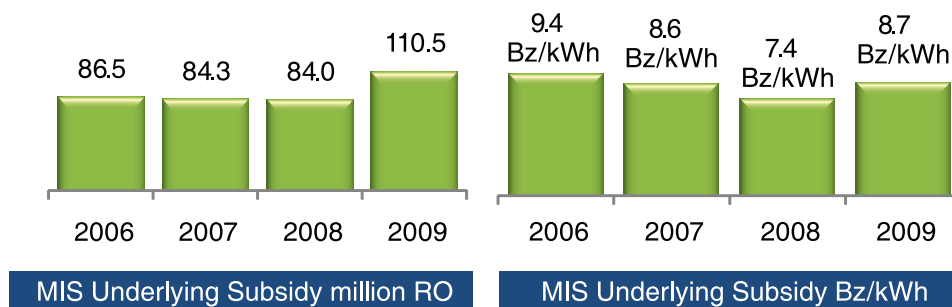


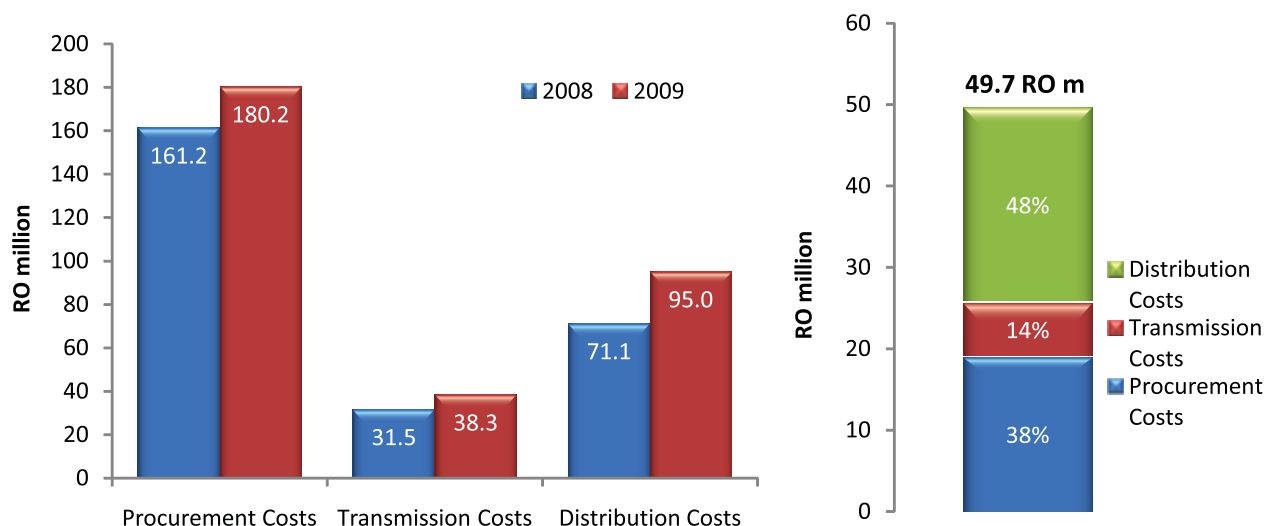
Figure 22 indicates a steady reduction in underlying MIS Subsidy from 86.5m RO (9.4 baiza/kWh) in 2006 to 84.0m RO (7.4 baiza/kWh) in 2008. Over the same period, customer revenue increased by 26% exceeding the 15% increase in economic costs. The Authority believes better management of the Licensed Suppliers' meter, reading, billing and collection (MRBC) functions contributed to increased customer revenue, losses reductions and reduced MIS Subsidy between 2006 and 2008.

The Authority estimates underlying MIS Subsidy in 2009 of 110.5m RO (8.7 baiza/kWh). Although the forecast of 2009 MIS subsidy is higher than outturn 2008 MIS subsidy, underlying MIS subsidy in 2009 of 8.7 baiza/kWh would be lower than the 9.4 baiza/kWh of subsidy in 2006, and marginally higher than 7.4 baiza/kWh of subsidy in 2008.

As anticipated in our 2007 Annual Report, recent policy decisions are exerting upward pressure on economic costs and electricity subsidy: in addition to strong growth in electricity demand, licensees are required to underground a substantial proportion of new electricity lines and are replacing and upgrading their systems to comply with security standards.

Figure 23 presents a breakdown of the expected increase in MIS economic costs between 2008 and 2009, showing the respective contributions of Procurement costs (PWP), Transmission costs (OETC) and Distribution & Supply costs (Muscat, Majan and Mazoon).

**Figure 23: Contributions to Increased MIS Economic Costs in 2009**



Source: SCRC & Authority calculations

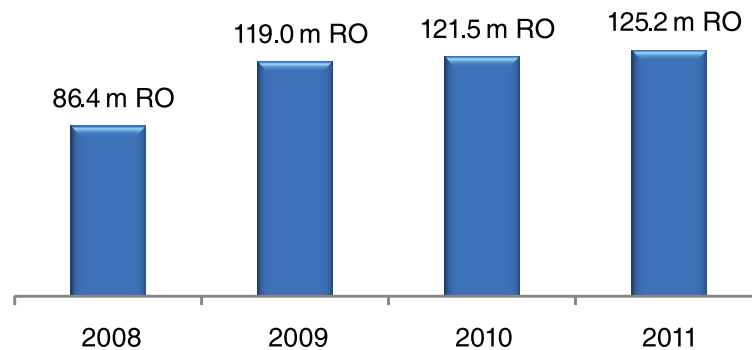
Of the 49.7 million RO increase in 2009 MIS economic costs:

- I. PWP procurement costs account for 38% of the total increase. The 19 million RO increase in procurement costs reflects the first year of payments for full power and water capacity and output from the SMN Barka production facility;
- II. Transmission costs account for 14% (6.8m RO) of the increase in economic costs, reflecting increased capital expenditure to ensure the licensed transmission system can accommodate underlying growth, connection of new production facilities and comply with approved security standards; and
- III. Distribution and Supply costs account for 48% (23.9m RO) of the increase in economic costs. As with OETC, increased capital expenditure to accommodate underlying growth and secure compliance with approved security standards are the principal drivers of cost.

In 2008 OETC, Muscat, Majan, and Mazoon approved projects totalling 83m RO. Some of this expenditure was incurred in 2008 and some in subsequent years as part of approved price control capital allowances for 2009 to 2011 shown in Figure 24.

**Figure 24: Capital Expenditure 2008-2011 – Licensed Networks (MIS)**

| Company              | 2008 | 2009  | 2010  | 2011  |
|----------------------|------|-------|-------|-------|
| OETC                 | 40.0 | 42.0  | 45.0  | 45.0  |
| Muscat               | 13.7 | 26.9  | 27.5  | 28.7  |
| Majan                | 12.1 | 19.1  | 20.2  | 19.7  |
| Mazoon               | 20.5 | 31.0  | 28.9  | 31.7  |
| Total                | 86.4 | 119.0 | 121.5 | 125.2 |
| % annual increase    |      | 38%   | 2%    | 3%    |
| % increase from 2008 |      | 38%   | 41%   | 45%   |



Source: Licensee returns and price control allowances

The 119 million RO of price control capital allowances in 2009 represents a 38% increase on capital allowances in 2008. Total MIS capital expenditure increases further to 122m RO in 2010 and 125m RO in 2011 (45% higher than 2008 allowances). These increases in capital expenditure allowances of transmission and distribution price controls are the principal driver of increased MIS subsidy in 2009.

## RAEC Subsidy

Outturn RAEC subsidy in 2008 is higher than forecast due to an additional allocation of subsidy made in response to significant improvements in the quality of RAEC information submissions to the Authority.

### RAEC Information Submissions

The Authority's 2005 Annual Report expressed disappointment that the price control mechanisms in the RAEC licence could not be implemented due to limitations in the quality and quantity of RAEC information. The 2006 Annual Report confirmed the implementation of a simplified RAEC subsidy calculation to provide RAEC with strong incentives to improve the quality and quantity of information provided to the Authority. Under this mechanism RAEC subsidy would be based on 2005 costs indexed to increases in customer accounts and MWh supplied. With no assurance that allowed revenue based on estimated costs would remunerate actual costs – the onus was on RAEC to improve the quality of information provided to the Authority and confirm its actual costs. The 2007 Annual Report confirmed the continued application of the simplified RAEC subsidy calculation but anticipated an improvement in RAEC information submissions following changes in RAEC management.

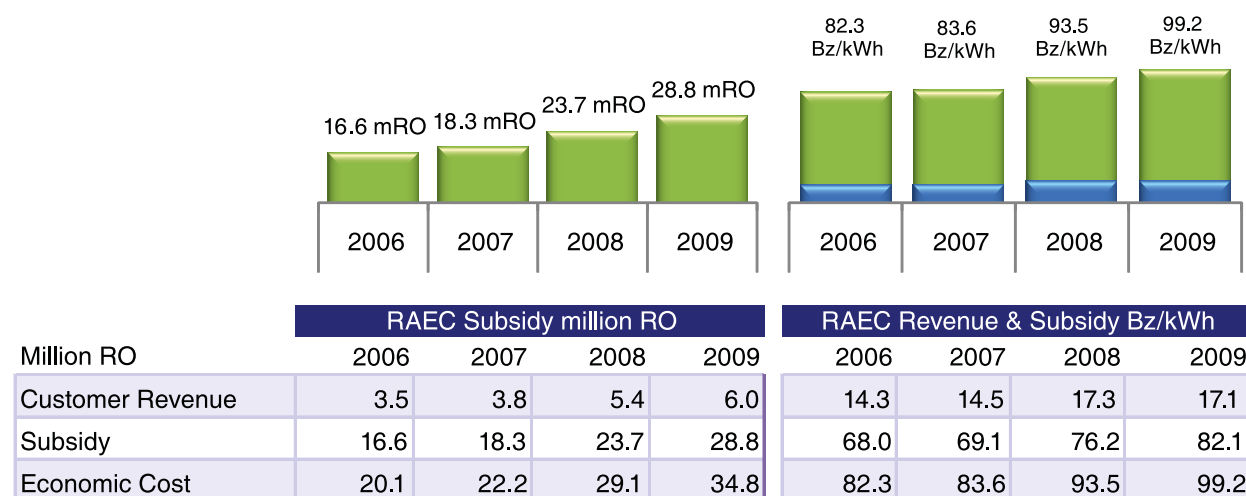
In 2007 and 2008 RAEC and its shareholders requested additional subsidy in light of reported profits being lower than expected (a direct consequence of RAEC's actual costs being higher than assumed in the subsidy calculation). The Authority rejected these requests as there has been no noticeable improvement in the quality of RAEC information submissions.

The Authority is pleased to acknowledge significant and sustained improvements in the quality of RAEC information submissions during 2008. As a result of the improvements the Authority has 'adjusted' 2008 RAEC subsidy to reflect actual costs in that year and is finalizing RAEC price controls for 2009 to 2011 as envisaged in the RAEC licence. The Authority is grateful to the Board and management of RAEC for the improvements made and is pleased that the mechanism implemented to incentivize the provision of robust information has been shown to be effective.

### RAEC Subsidy 2006 to 2009

Figure 25 confirms RAEC subsidy in 2008 and forecast RAEC subsidy in 2009.

**Figure 25: RAEC Outturn Subsidy - 2009 Subsidy Forecast**



Source: 2005, 2006, 2007 & 2008 audited SCRC Statement, Authority calculations.

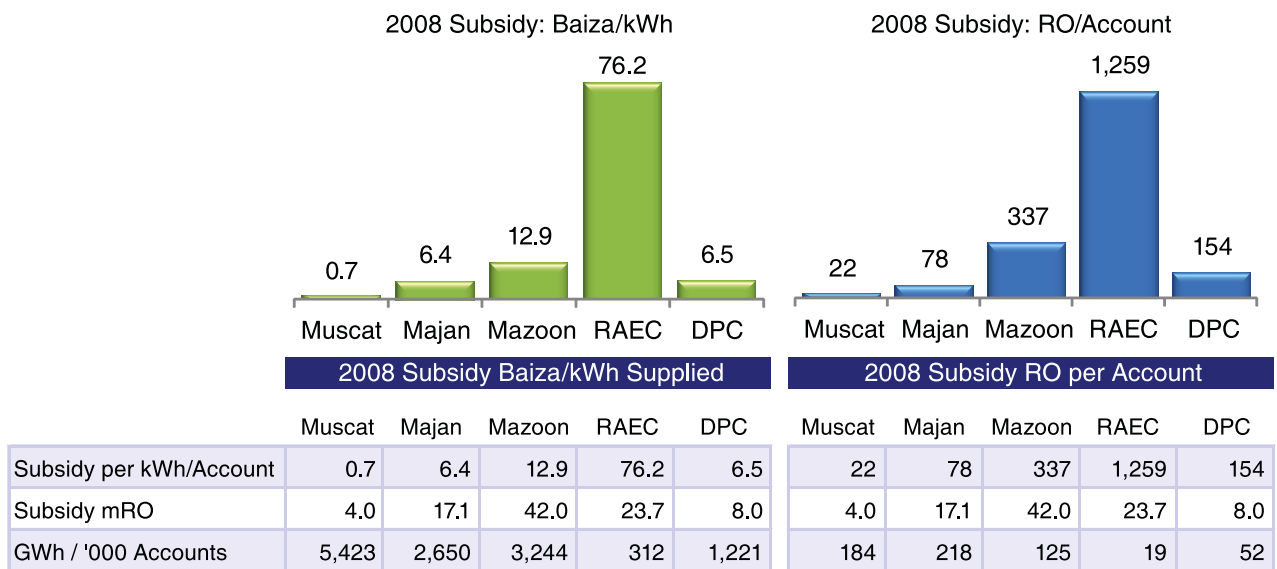


**Outturn RAEC subsidy in 2008 was 23.7 million RO or 76.2 baiza/kWh**, see Annex D for further details. **The Authority is forecasting 2009 RAEC subsidy of 28.8 million RO (82.1 baiza/kWh)**, an increase in subsidy that reflects significant growth of RAEC output. The 2009 estimate of RAEC subsidy is provisional and was derived using a new price control framework being discussed with the company. In determining 2009 subsidy, the Authority has again applied a revenue target of 14.5 baiza/kWh (a target RAEC met in 2008 with average tariff revenue of 17.3 baiza/kWh).

### Comparison of 2008 Subsidy by Company

Figure 26 presents a comparison of subsidy provided to Muscat, Majan, Mazoon and RAEC in 2008 and government financial support to DPC in that year. The left hand panel presents subsidy (baiza) per kWh supplied, the right hand panel shows subsidy (RO) per customer account.

**Figure 26: 2008 Subsidy Comparisons**



Source : 2008 audited SCRC Statements & licensee returns.

Note 1 : Muscat, Majan, Mazoon & RAEC Subsidy as per Article (18) of Sector Law. DPC Salalah CA net allowances.

Two licensees, Mazoon and RAEC, accounted for 76% of total subsidy provided to licensed suppliers in 2008, and for 69% of financial support to all companies. RAEC subsidy per kWh supplied and per account is significantly higher than other companies (and excludes RAEC electrification funding provided in accordance with Article (87) of the Sector Law).

The subsidy requirements of all companies reflect nominal increases in economic costs (in line with higher output) and Permitted Tariffs that in real terms decline year on year. A decision to index Permitted Tariffs to inflation would reduce subsidy. This is a matter for the government. The Authority notes 2008 subsidy would have been higher than the reported amounts had sector companies not secured the improvements in efficiency discussed elsewhere in this report.

## Electricity Tariffs

The Sector Law requires all electricity supplied by licensed suppliers to be charged at a Permitted Tariff approved by the Council of Ministers.

Figure 27 presents details of the present Permitted Tariffs for different customer categories, and Permitted Tariff fees for the disconnection and reconnection of customer accounts.

**Figure 27: Permitted Tariffs**

### A: Permitted Tariffs for Electricity Supply

| Permitted Tariff Category | Tariff Structure                     |               |               |                                  |                 |
|---------------------------|--------------------------------------|---------------|---------------|----------------------------------|-----------------|
| Industrial <sup>1</sup>   | All Regions except Dhofar            |               |               | Dhofar Region                    |                 |
|                           | September to April: 12 Baiza per kWh |               |               | August to March: 12 Baiza perkWh |                 |
|                           | May to August: 24 Baiza per kWh      |               |               | April to July: 24 Baiza per kWh  |                 |
| Commercial                | Flat rate @ 20 Baiza per KWh         |               |               |                                  |                 |
| Ministry of Defence       | Flat rate @ 20 Baiza per KWh         |               |               |                                  |                 |
| Residential               | 0-3000 kWh                           | 3001-5000 kWh | 5001-7000 kWh | 7001-10000 kWh                   | above 10000 kWh |
|                           | 10 Bz / kWh                          | 15 Bz / kWh   | 20 Bz / kWh   | 25 Bz / kWh                      | 30 Bz / kWh     |
| Government                | 0-3000 kWh                           | 3001-5000 kWh | 5001-7000 kWh | 7001-10000 kWh                   | above 10000 kWh |
|                           | 10 Bz / kWh                          | 15 Bz / kWh   | 20 Bz / kWh   | 25 Bz / kWh                      | 30 Bz / kWh     |
| Agriculture & Fisheries   | 0-7000 kWh                           |               |               | 7001 kWh & above                 |                 |
|                           | 10 Baiza per kWh                     |               |               | 20 Baiza per kWh                 |                 |
| Tourism <sup>2</sup>      | 0-3000 kWh                           | 3001-5000 kWh | 5001-7000 kWh | above 7001 kWh                   |                 |
|                           | 10 Bz / kWh                          | 15 Bz / kWh   | 20 Bz / kWh   | 20 Bz / kWh                      |                 |

<sup>1</sup> Customers require a MOCI letter of recommendation and must maintain a power factor of least 0.9

<sup>2</sup> Subject to Ministry of Tourism regulations and approval

### B: Permitted Tariff fees for Disconnection & Reconnection of accounts

Disconnection fee (all types of metered accounts): 7.500 Rial Omani

Reconnection fee (all types of metered accounts): 7.500 Rial Omani

No new Permitted Tariffs, or tariff modifications, were implemented in 2008.

## REGULATION

### Authority for Electricity Regulation, Oman

The Authority was established as an administratively and financially independent entity subject to State Audit Law by Article (19) of the Sector Law. The Authority is competent to regulate the electricity and related water sector pursuant to Article (2) of the Sector Law.

Authority Members are appointed by the Council of Ministers for three year terms. In February 2008 Members were appointed for further three year terms.

The present Members of the Authority are:

- Dr Saleh Mohammed Al-Alawi - non-executive Member (a part time appointment);
- Amur Mubarak Al Kiyumi - non-executive Member (a part time appointment); and
- John Cunneen - Executive Director and Member (a full time appointment).

Members are collectively responsible for managing the Authority's affairs and for ensuring the Authority fulfils all of its statutory functions and duties. Members met regularly throughout 2008 to administer the Authority's affairs, on the dates shown in Figure 28.

**Figure 28: Member Meetings in 2008**

|  | Dr Salah Al Alawi<br>Chairman & Member | John Cunneen<br>Executive Director &<br>Member | Amur Al Kiyumi<br>Member |
|--|--|--|--------------------------|
| Appointed for second term in:<br>Meeting Dates | February-2008                          | February-2008                                  | February-2008            |
| 13-January-2008                                | ✓                                      | ✓  | ✓                        |
| 9-February-2008                                | ✓                                      | ✓  | ✓                        |
| 13-February-2008                               | ✓                                      | ✓  | ✓                        |
| 8-March-2008                                   | ✓                                      | ✓  | ✓                        |
| 30-April-2008                                  | ✓                                      | ✓  | ✓                        |
| 18-June-2008                                   | ✓                                      | ✓  | ✓                        |
| 19-July-2008                                   | ✓                                      | ✓  | ✓                        |
| 20-July-2008                                   | ✓                                      | ✓  | ✓                        |
| 17-September-2008                              | ✓                                      | ✓  | ✓                        |
| 15-November-2008                               | ✓                                      | ✓  | ✓                        |
| 2-December-2008                                | ✓                                      | ✓  | ✓                        |
| 16-December-2008                               | ✓                                      | ✓  | ✓                        |

As at December 2008 the Authority had 19 full time staff, most of whom are Omani Nationals with professional qualifications.

## Funding

The Authority recovers all of its costs through licence fees. Fees are calculated by apportioning costs to each regulated activity on the basis of the time expected to be spent regulating each activity. Figure 29 presents licence fee income by regulated activity and the number of Licence Holders by activity, for 2005 to 2009, inclusive.

**Figure 29: Licence Fees: 2005 to 2009**

| Activity                  | 2005<br>Licence |    | 2006<br>Licence |    | 2007<br>Licence |    | 2008<br>Licence |    | 2009<br>Licence |    |
|---------------------------|-----------------|----|-----------------|----|-----------------|----|-----------------|----|-----------------|----|
|                           | Fees RO         | #  | Fees RO         | #  | Fees RO         | #  | Fees RO         | #  | Fees RO         | #  |
| Generation                | 78,200          | 4  | 59,700          | 4  | 50,776          | 4  | 95,284          | 4  | 154,351         | 4  |
| Generation & Desalination | 66,726          | 2  | 67,239          | 3  | 55,854          | 3  | 99,087          | 3  | 220,501         | 4  |
| Transmission & Dispatch   | 117,300         | 1  | 104,472         | 1  | 177,715         | 1  | 320,669         | 1  | 514,503         | 1  |
| Distribution & Supply     | 336,261         | 3  | 292,527         | 3  | 399,858         | 3  | 474,590         | 3  | 782,045         | 3  |
| RAEC Activities           | 119,425         | 1  | 116,346         | 1  | 153,279         | 1  | 159,345         | 1  | 230,792         | 1  |
| PWP Activites             | 132,090         | 1  | 142,779         | 1  | 273,237         | 1  | 232,225         | 1  | 547,824         | 1  |
| PWP: Electricity          | 93,840          |    | 90,543          |    | 88,858          |    | 192,401         |    | 288,122         |    |
| PWP: Related Water        | 12,750          |    | 4,749           |    | 6,664           |    | 10,359          |    | 14,700          |    |
| PWP: Salalah              | 25,500          |    | 47,488          |    | 177,715         |    | 29,465          |    | 245,002         |    |
| Total Fee Income          | 850,002         | 12 | 783,063         | 13 | 1,110,719       | 13 | 1,381,200       | 13 | 2,450,016       | 14 |

The increase in 2009 licence fees reflects the implementation of a new organisation structure approved by Members in 2008, and a contribution to the cost of establishing and moving to new offices. Licence fees fund all of the work items identified in the Authority's 2009 forward work programme (available for review at [www.aer-oman.org](http://www.aer-oman.org)).

## 2009 Forward Work Programme

Article (34) of the Sector Law requires the Authority to prepare a Forward Work Programme for the coming year, and consult with Persons who may be affected by the proposed work. In December 2008 the Authority consulted on its proposed 2009 Forward Work Programme and is in the process of implementing its constituent tasks. The Authority intends to post periodic updates of progress in implementing the work programme on its web site to further improve regulatory transparency.

Each Forward Work Programme identifies tasks the Authority intends to undertake in a relevant year. It is not always possible to complete a work programme as expected, particularly if priority issues arise unexpectedly during the year. For example, the Tropical Cyclone that hit Oman in June 2007 caused significant disruption to the planned 2007 work schedule. In 2008, the Article 147 investigation into the conduct of the Salalah IWPP competition resulted in the Renewable Energy & Energy Efficiency seminars planned for November 2008 being postponed to 2009.

The 2009 Forward Work Programme approved by Members is presented in Annex E.

### Customer Affairs Directorate

The Customer Affairs Directorate is responsible for protecting and promoting the interests of electricity customers and ensuring that the interests of electricity customers are afforded appropriate priority and attention within the Authority.

The Directorate approves and monitors Licensed Suppliers' codes of practice to safeguard interests of electricity customers and takes up complaints on behalf of Customers who have been unable to resolve disputes directly with a Licensed Supplier.

#### In 2008 the Directorate:

- (i) retained a Consultant to assist the development and implementation of Guaranteed and Overall Standards of Performance that are expected to commence in 2009;
- (ii) approved amended formats for Electricity Bills to provide greater clarity and transparency of information to Customers; and
- (iii) coordinated with the Ministry of Social Development to assist special needs customers.

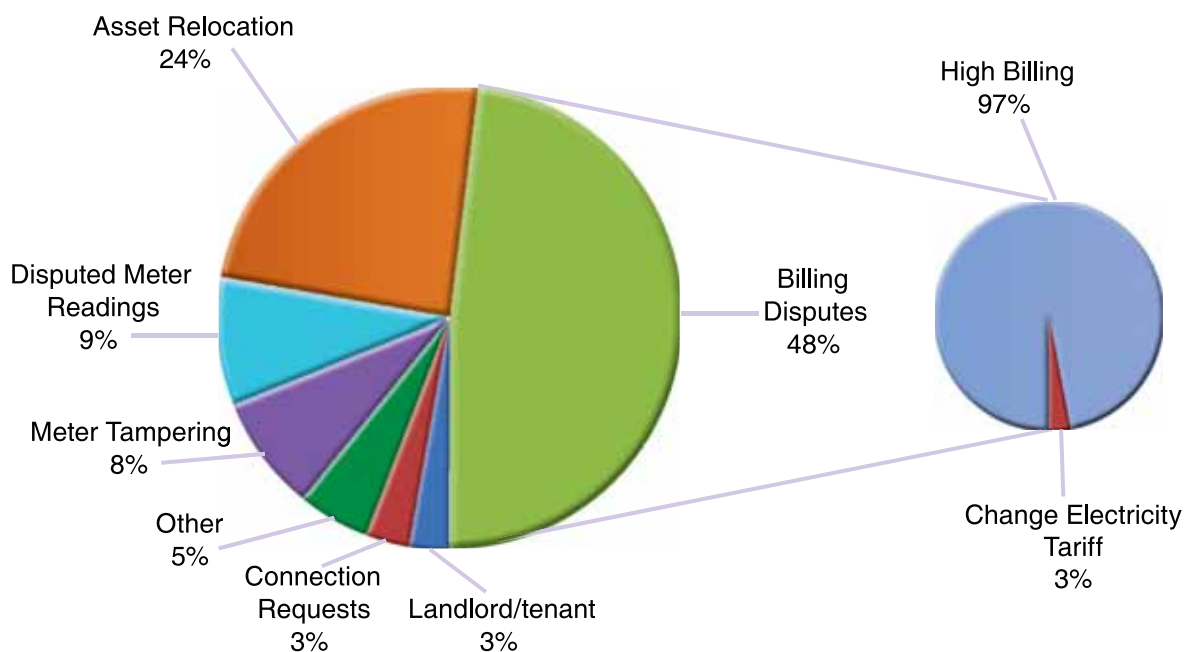
In 2008, the Authority issued four Customer Complaint Determinations;

- (i) the first Determination concerned a Licensed Supplier attempt to recover unbilled revenue attributable to the application of an incorrect tariff between May 2005 and May 2007. The Authority determined that the Customer's liability for unbilled revenue should not exceed 12 months;
- (ii) the second Determination related to a Customer's request for compensation for financial loss due to frequent Supply interruptions. The Authority concluded the Licensed Supplier could not have anticipated the Supply interruptions or provided prior notification to the Customer, and had acted quickly to restore Supply. The Authority Determined that no financial compensation was due to the Customer;
- (iii) the third Determination related to a Customer's request for reimbursement of connection charges paid in January 2003. The Customer had an agreement with MHEW that he would be receive compensation for subsequent connected customers benefitting from a line extension funded by him. Licensed Suppliers have a responsibility to honour undertakings given by MHEW. The Authority Determined that the Licensed Supplier should compensate the Customers on the agreed terms; and
- (iv) the fourth Determination related to a Customer's request for electricity poles located in close proximity to his land to be relocated and funded by a Licensed Supplier. The Authority Determined that in accordance with new policy directives, the assets should be replaced with underground cables by the Licensed Supplier at no cost to the Customer.

## Analysis of Customer Complaints

The Directorate received 65 complaints in 2008, a 30% increase on the number of complaints received in 2007. Figure 30 below presents an analysis of the issues that were the subject of customer complaints in 2008.

**Figure 30: Types of Customer Complaint in 2008**



Source: Authority Customer Complaints Database

Billing issues accounted for 48% of total customer complaints in 2008, with most Billing complaints relating to concerns about High Billing. Requests to relocate assets (poles, transformers, and substations) accounted for 24% of complaints in 2008, Disputed Meter Readings 9% of complaints, and Meter Tampering issues 8% of complaints.

## Economics and Financial Affairs Directorate

The Directorate is responsible for the economic regulation of the electricity and related water sector. This includes setting and monitoring RPI-X price controls, and reviewing and approving electricity and related water bulk Supply tariffs. The approved 2009 PWP Electricity and Water Bulk Supply Tariffs are shown in Figure 31, the 2009 RAEC Water Bulk Supply Tariffs are shown in Figure 32.

**Figure 31: 2009 PWP Electricity & Water Bulk Supply Tariffs**

### A: PWP Electricity Bulk Supply Tariff - 2009

| Baiza per kWh        | Off Peak                                     | Night Peak | Weekday Day-peak | Friday Day-peak |
|----------------------|--|------------|------------------|-----------------|
| January to March     | 7.0  | 7.0        | 7.0              | 7.0             |
| April                | 8.0  | 8.0        | 8.0              | 8.0             |
| May to July          | 8.0  | 20.0       | 40.0             | 20.0            |
| August to September  | 8.0  | 15.0       | 30.0             | 15.0            |
| October              | 8.0  | 8.0        | 8.0              | 8.0             |
| November to December | 7.0  | 7.0        | 7.0              | 7.0             |
| Rate Band            | Day(s) / Time(s)                             |            |                  |                 |
| Off Peak             | All days : 02:00 to 13:00 and 17:00 to 22:00 |            |                  |                 |
| Night Peak           | All days : 22:00 to 02:00 (following day)    |            |                  |                 |
| Weekday Day-peak     | Saturday to Thursday, 13:00 to 17:00         |            |                  |                 |
| Friday Day-peak      | Friday, 13:00 to 17:00                       |            |                  |                 |

Source: PWP 2009 Electricity BST Leaflet

### B: PWP Water Bulk Supply Tariffs - 2009

|   | Ghubrah                     | AES Barka                | Sohar                       |
|---|-----------------------------|--------------------------|-----------------------------|
| Fixed charge for committed Water Desalination Capacity<br>Based on Minimum Availability of: | RO 0.353 per day            | RO 0.415 per day         | RO 0.340 per day            |
| Summer <sup>1</sup>   | 92.5%                       | 93.0%                    | 98.0%                       |
| Winter  | 77.5%                       | 84.0%                    | 85.0%                       |
| Variable charge for Desalinated Water   | RO 0.100 per m <sup>3</sup> | 0.050 per m <sup>3</sup> |                             |
| 1: For the first 50% of daily capacity  |                             |                          | RO 0.020 per m <sup>3</sup> |
| 2: For the first 50% to 75% of daily capacity   |                             |                          | RO 0.045 per m <sup>3</sup> |
| 3: For excess over 75% of daily capacity  |                             |                          | RO 0.080 per m <sup>3</sup> |
| 4: Variable Charge for Distillate Water   |                             |                          | RO 1.200 per m <sup>3</sup> |
| PWP service charge (based on committed Water Desalination Capacity)                         | RO 0.005 per day            | RO 0.005 per day         | RO 0.005 per day            |

<sup>1</sup> Summer months: April-September for Ghubrah & Sohah, May-September for AES Barka



**Figure 32: 2009 RAEC Water Bulk Supply Tariffs**

| Rial/m <sup>3</sup> | Production Facility |            |        |         |        |
|---------------------|---------------------|------------|--------|---------|--------|
|                     | Al Hallaniyat       | Abu Mudabi | Kumzar | Masirah | Sograh |
| 2005                | 2.643               | 2.218      | 1.972  | 2.963   | 1.924  |
| 2006                | 3.339               | 2.331      | 2.721  | 2.995   | 2.928  |
| 2007                | 3.721               | 2.555      | 2.792  | 3.158   | 3.003  |
| 2008                | 3.934               | 2.673      | 2.484  | 3.182   | 2.673  |
| 2009                | 4.657               | 3.203      | 2.442  | 1.719   | 3.480  |

Source: Rural Areas Electricity Company SAOC

In 2008 the Directorate:

- set new Distribution and Supply price controls for Muscat, Majan and Mazoon each covering the period 2009 to 2011;
- agreed a 1-year extension for 2009 to the OETC price control. The Directorate is working to set a new price control for OETC starting 1 January 2010 that we hope will be of 5 years duration;
- progressed work on the setting of new PWP price controls; and
- contributed to reviews and approval of RAEC requests for Electrification Funding submitted in accordance with Article (87) of the Sector Law. The funding approved in 2008 included funding for a new generation and desalination facility and distribution system in Al Duqm.

## Technical Directorate

The Technical Directorate is responsible for approving technical standards and for monitoring compliance with Industry Codes, planning and operating standards, and Oman Electrical Standards. The Directorate represents the Authority on the Grid Code and Distribution Code Review Panels and plays a lead role in technical and health and safety investigations.

During 2008 the Directorate:

- managed Lahmeyer international conduct a review of the effects of a 2007 Tropical Cyclone on electricity infrastructure. The Directorate will be working in 2009 to implement recommendations arising from the review to improve the security and resilience of the electricity networks in Oman;
- assisted a health and safety inspection conducted by an specialist consultant (Advantica) of safety aspects of phase 1 Babcock boilers 4, 5, and 6 at the Al Ghubrah Power and Desalination Company SOAC (GPDC). The Consultant identified unacceptable safety risks and made recommendations for immediate implementation to keep the boilers in operation and safeguard the health and safety of staff. The Authority issued GPDC with a Article 116 notice requiring full refurbishment of phase 1 Babcock boilers 4, 5, and 6 and the installation of a new fit for purpose safety control system. The Authority expects all of required work to be completed in 2009;
- the Directorate established a "Summer 2009 Task Team" with stakeholder representatives to agree actions to minimize the risk of power Supply interruptions during summer 2009;
- assisted international consultants identify the Sultanate's renewable energy potential and the potential use of renewable energy for electricity production;
- worked closely with licensees to formalize and approve Distribution System Security Standards that now apply to all connected customers;
- contributed to reviews of capital and operating cost submissions of licensees as part of reviews to establish new price controls and provided specific input to the formulation of targets for technical and non technical losses that are a feature of new distribution and Supply price controls;
- approved 2008 Capability Statements submitted by transmission and distribution licensees;
- approved new meter testing regulations for fixed and mobile meter testing stations;
- worked with RAEC to finalize and approve RAEC System and Generation Security Standards. The Distribution System Security Standards followed the same principles as those for the MIS. Generation Security Standards were developed on a deterministic (N-1) basis rather than a loss of load hour basis, as applies to the MIS.

## Grid Code Review Panel

The Grid Code Review Panel (GCRP) met 3 times during 2008, see Figure 33.

**Figure 33: Grid Code Review Panel Meetings in 2008**

| Meeting      | Meeting Date     | Chaired by |
|--------------|------------------|------------|
| GCRP 12 & 13 | 03 June 2008     | OETC       |
| GCRP 14      | 28 October 2008  | OETC       |
| GCRP 15      | 21 December 2008 | OETC       |

No new Contractor or Product Approvals were issued by the GCRP during 2008.

## Distribution Code Review Panel

The Distribution Code Review Panel (DCRP) met on 4 occasions during 2008 on the dates shown in Figure 34.

**Figure 34: Distribution Code Review Panel Meetings in 2008**

| Meeting     | Meeting Date     | Chaired by                 |
|-------------|------------------|----------------------------|
| DCRP 1/2008 | 31 March 2008    | Majan Electricity Company  |
| DCRP 2/2008 | 26-July-2008     | Rural Areas Electricity Co |
| DCRP 3/2008 | 15-November-2008 | Rural Areas Electricity Co |
| DCRP 4/2008 | 15-December-2008 | Rural Areas Electricity Co |

During 2008 the DCRP issued 10 new Product approvals and 21 Contractor approvals and renewals.

## Licensing & Legal Affairs Directorate

The Directorate acts as legal counsel for Authority Members and acts to ensure Members' decisions comply with the requirements of the Sector Law and other applicable Laws. The Directorate is responsible for monitoring compliance with conditions of authorizations granted by the Authority and for maintaining channels of communication with relevant ministries and competent authorities to ensure the Authority has the information needed to provide requisite advice to License Holders and Exemption Holders. The Directorate is also responsible for maintaining the Public Register.

### During 2008 the Directorate:

- (i) Reviewed the license exemption application of SMN Barka Power Company SAOC (Exemption Order 1/2008 was granted on 16 March 2008);
- (ii) Reviewed two license exemption applications submitted by Muriya Tourism Development. Company - for its concession area in the Governorate of Muscat ( Al Sifah) and its concession area in Salalah, (ongoing);
- (iii) Participated in the review of the application submitted on behalf of Suez S.A for the change of control of the Generation Licence held by Al Rusail Power Company S.A.O.C and United Power Company S.A.O.G and the Generation and Desalination Licence held by SMN Barka Power Company S.A.O.C and Sohar Power Company S.A.O.C. After satisfying itself that the said Licensees will remain Appropriate Persons after the change of control, the Authority confirmed its approval for the requested change of control;
- (iv) Modified the Licence Exemption Order granted to Sohar Aluminum Company LLC to facilitate the sale of electricity and / or related water not required for self Supply to authorized Persons; and
- (v) Participated in the review of the documents submitted to the Authority by Al Rusail Power Company S.A.O.C and OPWP regarding the dispute concerning Al Rusail's obligation to conduct Annual Performance Tests pursuant to section 3-2 of Schedule A of the Power Purchase Agreement. The Authority determined the dispute in favour of Al Rusail Power Company S.A.O.C.

### **Oman-UAE Interconnection**

The Sultanate of Oman and the United Arab Emirates signed a bilateral Electricity Interconnection Agreement in June 2004 two months prior to the promulgation of Royal Decree 78/2004 issuing the Sector Law. The Authority proposed changes to the bilateral Electricity Interconnection Agreement to ensure compliance with the Sector Law. The proposed changes were discussed and agreed by representatives of both countries in 2009.

### **Salalah IWPP**

The Directorate participated in the review of the competition documents relating to the new Salalah IWPP. The competition was managed by OPWP. The Authority has statutory duty under the Sector Law to ensure that OPWP has conducted a fair and transparent competition. The purpose of the review is to ensure that prior to the grant of a licence to Salalah IWPP project company the requirements of the Appropriate Person Criteria published by the Authority pursuant to Article (22) of the Sector Law has been complied with by the consortium composed of Sembcorp, OIC and Bank Muscat, the preferred bidder recommended by OPWP. The Authority identified a conflict of interest arising out of the competition process due to the presence of an employee of Bank Muscat on the Board of Directors of OPWP. Finally the conflict of interest is eliminated and the Authority confirmed the consortium as preferred bidder.

### **GCC Electricity Interconnection**

The Authority participated in the review and discussions of the GCC Interconnection Agreements in coordination with the Public Authority for Electricity and Water, Oman Power and Water Procurement Company SAOC, Oman Electricity Transmission Company SAOC and other relevant government entities. There are two main Project Agreements: the General Agreement and the Power Exchange and Trading Agreement (PETA). The first is a multilateral treaty to be signed between the governments of the six GCC countries and the PETA is a commercial Agreement to be signed between entities responsible for power procurement and transmission system operators in the GCC countries.

The Authority participated in a number of meetings and reviewed various drafts of the Agreements. It is planned to sign the General Agreement in the first quarter of 2009.

## ANNEX A: AUDITED FINANCIAL STATEMENTS

### **AUTHORITY FOR THE ELECTRICITY REGULATION, OMAN**

**Report and financial statements  
for the year ended 31 December 2008**



**AUTHORITY FOR THE ELECTRICITY  
REGULATION, OMAN**

**Report and financial statements  
for the year ended 31 December 2008**

|   | <b>Pages</b>   |
|---|----------------|
| <b>Independent auditor's report</b>         | <b>52 - 53</b> |
| <b>Balance sheet</b>                        | <b>54</b>      |
| <b>Income statement</b>                     | <b>55</b>      |
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**Independent auditor's report  
to the members of  
Authority for Electricity Regulation, Oman**

**Deloitte & Touche (M.E.) & Co LLC**

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**Report on the financial statements**

We have audited the accompanying financial statements of the **Authority for Electricity Regulation, Oman**, which comprise of balance sheet as at 31 December 2008 and the income statement, statement of changes in surplus fund and cash flow statement for the year then ended, and a summary of significant accounting policies and other explanatory notes as set out on pages 3 to 18.

**Management responsibility for the financial statements**

Management is responsible for the preparation and fair presentation of these financial statements in accordance with International Financial Reporting Standards and compliance with the relevant requirements of the Law for the Regulation and Privatisation of the Electricity and Related Water Sector ("the Sector Law"), promulgated by the Royal Decree 78/2004. This responsibility includes: designing, implementing and maintaining internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error; selecting and applying appropriate accounting policies; and making accounting estimates that are reasonable in the circumstances.

**Auditor's responsibility**

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with International Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatements of the financial statements. In making those risk assessments; the auditor considers internal control relevant to the preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of financial statements.



We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.



**Independent auditor's report  
to the members of  
Authority for Electricity Regulation, Oman (continued)**

**Opinion**

In our opinion, the financial statements, present fairly, in all material respects, the financial position of the **Authority for Electricity Regulation, Oman**, as of 31 December 2008, and of its financial performance and its cash flows for the year then ended, in accordance with International Financial Reporting Standards and comply, in all material respects, with the relevant requirements of the Law for the Regulation and Privatisation of the Electricity and Related Water Sector ("the Sector Law"), promulgated by the Royal Decree 78/2004.

  
  
**Deloitte & Touche (M.E.) & Co. LLC**  
**Muscat, Sultanate of Oman**  
**6 May 2009**




**Balance sheet  
at 31 December 2008**

|  | Notes | 2008<br>RO | 2007<br>RO |
|--|-------|------------|------------|
| <b>ASSETS</b>                                    |       |            |            |
| <b>Non-current assets</b>                        |       |            |            |
| Property and equipment                           | 5     | 78,039     | 64,051     |
| <b>Current assets</b>                            |       |            |            |
| License fees receivable                          |       | 39,550     | 33,322     |
| Prepayments and other receivables                |       | 46,868     | 48,236     |
| Cash and bank balances                           | 6     | 508,966    | 617,597    |
|  |       | 595,384    | 699,155    |
| <b>Total assets</b>                              |       | 673,423    | 763,206    |
| <b>RETAINED SURPLUS AND LIABILITIES</b>          |       |            |            |
| Retained surplus                                 | 7     | 444,447    | 691,657    |
| <b>Liabilities</b>                               |       |            |            |
| <b>Non-current liabilities</b>                   |       |            |            |
| Provision for employees' end of service benefits | 8     | 24,831     | 18,412     |
| <b>Current liabilities</b>                       |       |            |            |
| Accruals and other payables                      | 9     | 204,145    | 53,137     |
| <b>Total liabilities</b>                         |       | 228,976    | 71,549     |
| <b>Total retained surplus and liabilities</b>    |       | 673,423    | 763,206    |



**Chairman and Member**



**Member**



**Executive Director and Member**

The accompanying notes form an integral part of these financial statements.



**Income statement  
for the year ended 31 December 2008**

|   | Notes | 2008<br>RO              | 2007<br>RO            |
|---|-------|-------------------------|-----------------------|
| Licence fees                            | 10    | 1,381,201               | 1,110,712             |
| Other income                            |       | 14,950                  | 17,990                |
|   |       | <u>1,396,151</u>        | <u>1,128,702</u>      |
| Salaries and employee related costs     | 11    | 658,831                 | 559,345               |
| General and administrative expenses     | 12    | 956,683                 | 264,133               |
| Depreciation                            | 5     | 27,847                  | 24,343                |
|   |       | <u>1,643,361</u>        | <u>847,821</u>        |
| <b>(Deficit) / surplus for the year</b> |       | <u><u>(247,210)</u></u> | <u><u>280,881</u></u> |

The accompanying notes form an integral part of these financial statements.

## Statement of changes in surplus fund for the year ended 31 December 2008

|                                    | Retained surplus<br>RO |
|------------------------------------|------------------------|
| Balance at 1 January 2007          | 410,776                |
| Surplus for the year               | 280,881                |
|                                    | <hr/>                  |
| Balance at 1 January 2008          | 691,657                |
| Deficit for the year               | (247,210)              |
|                                    | <hr/>                  |
| <b>Balance at 31 December 2008</b> | <b>444,447</b>         |
|                                    | <hr/> <hr/>            |

The accompanying notes form an integral part of these financial statements.



**Cash flow statement  
for the year ended 31 December 2008**

|  | 2008<br>RO       | 2007<br>RO     |
|--|------------------|----------------|
| <b>Operating activities</b>  |                  |                |
| Cash receipts from licensees and application fees for license exemptions | 1,377,973        | 1,080,390      |
| Cash paid to employees and other suppliers                               | (1,456,719)      | (824,734)      |
| <b>Net cash (used in) / from operating activities</b>                    | <b>(78,746)</b>  | <b>255,656</b> |
| <b>Investing activities</b>  |                  |                |
| Purchase of property and equipment                                       | (41,835)         | (2,734)        |
| Interest income  | 11,950           | 14,990         |
| <b>Net cash (used in) / from investing activities</b>                    | <b>(29,885)</b>  | <b>12,256</b>  |
| <b>Net change in cash and cash equivalents</b>                           | <b>(108,631)</b> | <b>267,912</b> |
| Cash and cash equivalents at the beginning of the year                   | 617,597          | 349,685        |
| Cash and cash equivalents at end of the year                             | 508,966          | 617,597        |

The accompanying notes form an integral part of these financial statements.

## **Notes to the financial statements for the year ended 31 December 2008**

### **1. Activities**

The Authority for Electricity Regulation, Oman (hereafter referred to as “the Authority”), was established by Article 19 of the Law for the Regulation and Privatisation of the Electricity and Related Water Sector (“the Sector Law”) promulgated by the Royal Decree 78/2004 issued on 1 August 2004.

The Authority is primarily engaged in the regulation of the electricity and related water sector in the Sultanate of Oman. Under the Sector Law regulating the Authority’s activities, the Authority levies fees on licensee companies that will enable the Authority to recover an amount not more than its expenses. Accordingly, surpluses of income over expenditure are held for the benefit of the licensee companies as explained in Note 7 to the financial statements.

The registered office of the Authority is PO Box 954, PC 133, Al Khuwair, Sultanate of Oman.

### **2. Adoption of new and revised International Financial Reporting Standards (IFRS)**

For the year ended 31 December 2008, the Authority has adopted all of the new and revised standards and interpretations issued by the International Accounting Standards Board (IASB) and the International Financial Reporting Interpretations Committee (IFRIC) of the IASB that are relevant to its operations and effective for periods beginning on 1 January 2008.

The adoption of these standards and interpretations has not resulted in changes to the Authority’s accounting policies and has not affected the amounts reported for the current period.

## Notes to the financial statements for the year ended 31 December 2008 (continued)

### 2. Adoption of new and revised International Financial Reporting Standards (IFRS) (continued)

At the date of authorisation of these financial statements, the following standards and interpretations were in issue but not yet effective:

|   | Effective for annual period<br>beginning on or after |
|---|--|
| IFRIC 13 : Customer Loyalty Programmes  | 1 July 2008  |
| IFRIC 16 : Hedges of a net investment in a foreign operations                         | 1 October 2008                                       |
| IFRS 1 : (Revised) First-time adoption of International Financial Reporting Standards | 1 January 2009                                       |
| IFRS 2 : (Revised) Share-based Payment  | 1 January 2009                                       |
| IFRS : 7 Financial Instruments: Disclosures   | 1 January 2009                                       |
| IFRS 8 : Operating Segments   | 1 January 2009                                       |
| IAS 1 : (Revised) Presentation of Financial Statements                                | 1 January 2009                                       |
| IAS 16 : (Revised) Property, Plant and Equipment                                      | 1 January 2009                                       |
| IAS 19 : (Revised) Employee Benefits  | 1 January 2009                                       |
| IAS 20 : (Revised) Government Grants and Disclosure of Government Assistance          | 1 January 2009                                       |
| IAS 23 : (Revised) Borrowing Costs  | 1 January 2009                                       |
| IAS 29 : (Revised) Financial Reporting in Hyperinflationary Economies                 | 1 January 2009                                       |
| IAS 32 : (Revised) Financial Instruments : Presentation                               | 1 January 2009                                       |
| IAS 36 : (Revised) Impairment of Assets   | 1 January 2009                                       |
| IAS 38 : (Revised) Intangible Assets  | 1 January 2009                                       |
| IAS 40 : (Revised) Investment Property  | 1 January 2009                                       |
| IAS 41 : (Revised) Agriculture  | 1 January 2009                                       |
| IFRIC 15 : Agreements for the Construction of Real Estate                             | 1 January 2009                                       |
| IFRS 3 : (Revised) Business Combinations  | 1 July 2009  |
| IFRS 5 : (Revised) Non-Current Assets held for Sale and Discontinued Operations       | 1 July 2009  |
| IAS 27 : (Revised) Consolidated and Separate Financial Statements                     | 1 January 2009                                       |
| IAS 28 : (Revised) Investment in Associates   | 1 January 2009                                       |
| IAS 31 : (Revised) Interests in Joint Ventures  | 1 January 2009                                       |
| IAS 39 : (Revised) Financial Instruments: Recognition and Measurement                 | 1 July 2009  |
| IFRIC 17 : Distributions of Non-cash Assets to Owners                                 | 1 July 2009  |
| IFRIC 18 : Transfers of Assets from Customers   | 1 July 2009  |

The Members anticipate that the adoption of the above standards and interpretations in future periods will have no material impact on the financial statements of the Authority.

## Notes to the financial statements for the year ended 31 December 2008 (continued)

### 3. Summary of significant accounting policies

#### Basis of preparation

The financial statements have been prepared in accordance with International Financial Reporting Standards issued by the International Accounting Standards Board, interpretations issued by the International Financial Reporting Interpretations Committee and the requirements of the Sector Law of the Sultanate of Oman.

The following are the significant accounting policies which have been applied consistently:

#### Property and equipment

Property and equipment purchased are recorded at cost together with any incidental expenses of acquisition.

The cost of property and equipment is written off in equal installments over their estimated useful economic lives as follows:

|  | Years |
|--|-------|
| Furniture, fixtures and office equipment | 6.67  |
| Vehicles                                 | 5     |
| Computers                                | 3 - 4 |

#### Impairment

At each balance sheet date, the Authority reviews the carrying amounts of its assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss, if any.

The loss arising on an impairment of an asset or cash generating unit is determined as the difference between the recoverable amount and carrying amount of the asset or cash generating unit and is recognised immediately in the income statement.

Where an impairment loss subsequently reverses, the carrying amount of the asset is increased to the revised estimate of its recoverable amount and the increase is recognised as income immediately, provided that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognised earlier.

## **Notes to the financial statements for the year ended 31 December 2008 (continued)**

### **3. Summary of significant accounting policies (continued)**

#### **Financial instruments**

Financial assets and liabilities are recognised on the balance sheet when the Authority becomes a party to the contractual provisions of the instrument.

The principal financial instruments are cash and bank balances, license fees receivable, prepayments and other receivables and trade and other payables. License fees receivable are stated at their nominal value as reduced by allowances for doubtful balances, if any. Trade and other payables are stated at their amortised cost.

#### **Provisions**

Provisions are recognised when the Authority has a present obligation as a result of a past event, which it is probable, will result in an outflow of economic benefits that can be reasonably estimated.

#### **Staff benefits**

Payment is made to the Pension and Gratuities Fund for Omani Government Employees pursuant to the provisions of the Law of Post Service Pensions and Gratuities for Omani Government Employees issued by Royal Decree (26/86) as amended. Provision is also made for amounts payable under the Oman Labour Law applicable to expatriate employees, and is based on current remuneration and accumulated periods of service at the balance sheet date.

#### **Cash and cash equivalents**

For the purpose of cash flow statement, cash and cash equivalents consist of cash on hand and bank balances maturing within three months from the date of placement.

#### **Licence fees**

Licence fees represent the amounts invoiced to the licensees for the year.

#### **Foreign currencies**

Transactions denominated in foreign currencies entered into during the year have been translated into Rials Omani and recorded at the rates of exchange prevailing at the dates of transactions. Foreign currency monetary assets and liabilities at the balance sheet date are translated at the rates of exchange prevailing at the balance sheet date. Exchange differences that arise are taken to the income statement.



## **Notes to the financial statements for the year ended 31 December 2008 (continued)**

### **3. Summary of significant accounting policies (continued)**

#### **Critical accounting judgements and key source of estimation uncertainty**

In preparing the financial statements, the Members are required to make estimates and assumptions which affect reported income and expenses, assets, liabilities and related disclosures. The use of available information and application of judgment based on historical experience and other factors are inherent in the formation of estimates. Actual results in the future could differ from such estimates.

The significant estimate in the preparation of these financial statements is primarily in respect of licence fee income to be recovered in respect of regulation by the Authority of the licensed companies.

Depreciation is charged so as to write off the cost of assets over their estimated useful lives. The calculation of useful lives is based on management's assessment of various factors such as the operating cycles, the maintenance programs, and normal wear and tear using its best estimates.

### **4. Financial risk management**

Financial instruments carried on the balance sheet comprise cash and bank balances, license fees receivable, other receivables and trade and other payables.

Financial assets are assessed for indicators of impairment at each balance sheet date. Financial assets are impaired where there is objective evidence that as a result of one or more events that occurred after the initial recognition of the financial asset, the estimated future cash flows have been impacted.

The classification of financial assets depends on the purpose for which the financial assets were acquired. Management determines the classification of its financial assets at initial recognition.

## **Notes to the financial statements for the year ended 31 December 2008 (continued)**

### **4. Financial risk management (continued)**

#### **Financial risk factors**

##### **Overview**

The Authority's activities expose it to a variety of financial risks: market risk, credit risk and liquidity risk. The Authority's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential adverse effects on the Authority's financial performance.

Risk management is carried out by finance and administration department under policies approved by the members.

##### **(i) Credit risk**

Credit risk is the risk of financial loss to the Authority if a licensee or counterparty to a financial instrument fails to meet its contractual obligations and arises principally from the Authority's receivables from licensees.

##### **Licence fee and other receivables**

The Authority's exposure to credit risk is influenced mainly by the individual characteristics of each licensee. All licensees are based in Sultanate of Oman.

The potential risk in respect of amounts receivable is limited to their carrying values as management regularly reviews these balances whose recoverability is in doubt.

##### **(ii) Liquidity risk**

Liquidity risk is the risk that the Authority will not be able to meet its financial obligations as they fall due. The Authority's approach to managing liquidity is to ensure, as far as possible, that it will have sufficient liquidity to meet its liabilities when due, under both normal and stressed conditions, without incurring unacceptable losses or risking damage to the Authority's reputation.

Typically, the Authority ensures that it has sufficient cash on demand to meet expected operational expenses. This excludes the potential impact of extreme circumstances that cannot reasonably be predicted, such as natural disasters.

## Notes to the financial statements for the year ended 31 December 2008 (continued)

### 4. Financial risk management (continued)

#### Financial risk factors (continued)

##### (iii) Market risk

Market risk is the risk that changes in market prices, such as foreign exchange rates, interest rates affect the Authority's income or the value of its holdings of financial instruments. The objective of market risk management is to manage and control market risk exposures within acceptable parameters, while optimising the return.

##### Foreign currency risk

The Authority's functional and presentation currency is Rial Omani and the Authority's performance is substantially independent of changes in foreign currency rates. There are no significant financial instruments denominated in foreign currency and consequently, foreign currency risk is not significant.

##### Interest rate risk

The Authority has balances with banks, which are interest bearing and exposed to changes in market interest rates.

##### Capital management

The Authority's objectives when managing capital are to safeguard the Authority's ability to continue as a going concern and benefit other stakeholders. The Authority is not subject to externally imposed capital requirements (Note 1)

##### Fair value of financial instruments

Fair value of the financial instruments approximates to their carrying value at the balance sheet date.



**Notes to the financial statements  
for the year ended 31 December 2008 (continued)**

**5. Property and equipment**

|                            | <b>Furniture,<br/>fixtures and<br/>office<br/>equipment<br/>RO</b> | <b>Vehicles<br/>RO</b> | <b>Computers<br/>RO</b> | <b>Total<br/>RO</b> |
|----------------------------|--|------------------------|-------------------------|---------------------|
| <b>Cost</b>                |  |                        |                         |                     |
| At 1 January 2007          | 63,273   | 11,750                 | 44,581                  | 119,604             |
| Additions                  | 434  | -                      | 2,300                   | 2,734               |
| At 1 January 2008          | 63,707   | 11,750                 | 46,881                  | 122,338             |
| Additions                  | 640  | 20,600                 | 20,595                  | 41,835              |
| <b>At 31 December 2008</b> | <b>64,347</b>  | <b>32,350</b>          | <b>67,476</b>           | <b>164,173</b>      |
| <b>Depreciation</b>        |  |                        |                         |                     |
| At 1 January 2007          | 15,387   | 3,464                  | 15,093                  | 33,944              |
| Charge for the year        | 9,524  | 2,350                  | 12,469                  | 24,343              |
| At 1 January 2008          | 24,911   | 5,814                  | 27,562                  | 58,287              |
| Charge for the year        | 9,589  | 5,104                  | 13,154                  | 27,847              |
| <b>At 31 December 2008</b> | <b>34,500</b>  | <b>10,918</b>          | <b>40,716</b>           | <b>86,134</b>       |
| <b>Carrying value</b>      |  |                        |                         |                     |
| <b>31 December 2008</b>    | <b>29,847</b>  | <b>21,432</b>          | <b>26,760</b>           | <b>78,039</b>       |
| At 31 December 2007        | 38,796   | 5,936                  | 19,319                  | 64,051              |

**6. Cash and bank balances**

|              | <b>2008<br/>RO</b> | <b>2007<br/>RO</b> |
|--------------|--------------------|--------------------|
| Cash on hand | 295                | 36                 |
| Cash at bank | 508,671            | 617,561            |
|              | <b>508,966</b>     | <b>617,597</b>     |

## Notes to the financial statements for the year ended 31 December 2008 (continued)

### 7. Retained surplus

The retained surplus represents the cumulative amount of excess or deficit of income over expenditure which will be offset against future funding requirements in accordance with Article (55) of the Sector Law.

### 8. Provision for employees' end of service benefits

|                               | 2008<br>RO    | 2007<br>RO    |
|-------------------------------|---------------|---------------|
| Balance brought forward       | 18,412        | 11,094        |
| Paid during the year          | (5,246)       | -             |
| Charge for the year (Note 11) | 11,665        | 7,318         |
| Balance carried forward       | <u>24,831</u> | <u>18,412</u> |

### 9. Accruals and other payables

|                |                |               |
|----------------|----------------|---------------|
| Accruals       | 12,786         | 36,893        |
| Other payables | 191,359        | 16,244        |
|                | <u>204,145</u> | <u>53,137</u> |

### 10. Licence fees

Licence fees represent the amounts invoiced to licensees for the year.

### 11. Salaries and employee related costs

|   | 2008<br>RO     | 2007<br>RO     |
|---|----------------|----------------|
| Salaries and allowances   | 552,430        | 480,693        |
| Cost of end of service benefits for expatriate employees (Note 8) | 11,665         | 7,318          |
| Contribution to defined contribution retirement plan              | 30,693         | 24,179         |
| Other employee related costs                                      | 64,043         | 47,155         |
|   | <u>658,831</u> | <u>559,345</u> |

## Notes to the financial statements for the year ended 31 December 2008 (continued)

### 12. General and administrative expenses

|                             | 2008<br>RO     | 2007<br>RO     |
|-----------------------------|----------------|----------------|
| Rent                        | 41,400         | 28,054         |
| Consultancy fees            | 765,437        | 155,276        |
| Communications              | 5,046          | 5,031          |
| Advertisement and publicity | 18,367         | 6,169          |
| Traveling and conveyance    | 37,949         | 18,205         |
| Printing and stationery     | 23,828         | 10,165         |
| Utilities                   | 1,115          | 1,009          |
| Repairs and maintenance     | 11,165         | 792            |
| Miscellaneous expenses      | 52,376         | 39,432         |
|                             | <u>956,683</u> | <u>264,133</u> |

### 13. Taxation

The Authority is exempt from taxation as per Article (56) of the Sector Law.

### 14. Related party transactions

The Authority enters into transactions in the normal course of business with the Chairman and Members. These transactions are entered into at terms and conditions which the Members believe could be obtained on an arms length basis from independent third parties.

Such transactions comprise compensation to key management personnel and which for the year amounted to:

|                                | 2008<br>RO     | 2007<br>RO     |
|--------------------------------|----------------|----------------|
| Short term employment benefits | <u>165,061</u> | <u>145,144</u> |
| End of service benefits        | <u>6,046</u>   | <u>3,687</u>   |

## Notes to the financial statements for the year ended 31 December 2008 (continued)

### 15. Credit risk

#### Exposure to credit risk

The carrying amount of financial assets represents the maximum credit exposure. The exposure to credit risk at the balance sheet date was on account of:

|                                   | 2008<br>RO     | 2007<br>RO     |
|-----------------------------------|----------------|----------------|
| License fee receivable            | 39,550         | 33,322         |
| Prepayments and other receivables | 46,868         | 48,236         |
| Cash and bank balances            | 508,966        | 617,597        |
|                                   | <u>595,384</u> | <u>699,155</u> |

Licence fees receivable at the balance sheet date represent amount due from Muscat Electricity Distribution Company SAOC. This amount is past due for 92 days (2007 : 92 days) for which Authority has not made any provision for impairment as there has not been a significant change in credit quality and the amount is considered fully recoverable. The Authority does not hold any collateral over this balance.

### 16. Liquidity risk

The following are the maturities of the financial liabilities.

|                | 2008<br>Carrying<br>amount<br>RO | 6 months<br>or less<br>RO | 2007<br>Carrying<br>amount<br>RO | 6 months<br>or less<br>RO |
|----------------|----------------------------------|---------------------------|----------------------------------|---------------------------|
| Accruals       | 12,786                           | 12,786                    | 36,893                           | 36,893                    |
| Other payables | 191,359                          | 191,359                   | 16,244                           | 16,244                    |
|                | <u>204,145</u>                   | <u>204,145</u>            | <u>53,137</u>                    | <u>53,137</u>             |

## Notes to the financial statements for the year ended 31 December 2008 (continued)

### 17. Interest rate risk

At the balance sheet date the interest rate profile of the Authority's interest bearing financial instruments was:

|                               | 2008<br>RO | 2007<br>RO |
|-------------------------------|------------|------------|
| <b>Fixed rate instruments</b> |            |            |
| Financial assets              | 508,671    | 617,561    |
| Financial liabilities         | -          | -          |

### 18. Commitments

At the balance sheet date, the Authority has outstanding commitments amounting to RO 8,516 (2007 : RO 240,533).

### 19. Comparative figures

Certain comparative figures have been reclassified to compare with current year presentation.












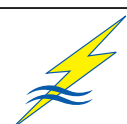

### 20. Approval of financial statements

The financial statements were approved by the Members and authorised for issue on 6 May 2009.



## ANNEX B: AUTHORISED ENTITIES

### Licence Holders

|  |   |
|--|---|
| <b>Majan Electricity Company SAOC</b><br>Regulated Activities: the Distribution' and Supply of electricity to Premises   |    |
| <b>Mazoon Electricity Company SAOC</b><br>Regulated Activities: the Distribution' and Supply of electricity to Premises  |    |
| <b>Muscat Distribution Company SAOC</b><br>Regulated Activities: the Distribution' and Supply of electricity to Premises   |    |
| <b>Oman Electricity Transmission Company SAOC</b><br>Regulated Activities: the Transmission; and Dispatch of electricity   |    |
| <b>Rural Areas Electricity Company SAOC</b><br>Regulated Activities: Generation and Desalination & Transmission; Dispatch; Distribution; and Supply of electricity & bulk supply of desalinated water            |    |
| <b>Wadi Al Jizzi Power Company SAOC</b><br>Regulated Activity: the Generation of electricity   |  |
| <b>Al Rusail Power Company SAOC</b><br>Regulated Activity: the Generation of electricity   |  |
| <b>Al Ghubrah Power and Desalination Company SAOC</b><br>Regulated Activity: Generation of electricity and Desalination of water   |  |
| <b>Al Kamil Power Company SAOG</b><br>Regulated Activity: the Generation of electricity  |  |
| <b>United Power Company SAOG</b><br>Regulated Activity: the Generation of electricity  |  |
| <b>AES Barka SAOG</b><br>Regulated Activity: Generation of electricity and Desalination of water   |  |
| <b>Sohar Power Company SAOC</b><br>Regulated Activity: Generation of electricity and Desalination of water   |  |
| <b>Oman Power and Water Procurement Company SAOC</b><br>Regulated Activities: Demand forecasting, capacity procurement; bulk supply of electricity and water, & counterparty to the Salalah Concession Agreement |  |

### Licence Exemption Holders

|  |   |
|--|---|
| <b>Sohar International Urea Chemical Industries SAOC</b><br>Regulated Activity: Generation of electricity and Desalination of water  |    |
| <b>Sohar Refinery Company LLC</b><br>Regulated Activity: Generation of electricity and Desalination of water; the Distribution of electricity; the Supply of electricity to Premises |    |
| <b>Oman Mining Company LLC</b><br>Regulated Activities: the Generation; Distribution; and Supply of electricity  |    |
| <b>Oman India Fertiliser Company SAOC</b><br>Regulated Activities: Generation of electricity and Desalination of water   |    |
| <b>Oman Cement Company SAOG</b><br>Regulated Activities: the Generation; Distribution; and Supply of electricity to Premises   |    |
| <b>Barr Al Jissah Resort Company</b><br>Regulated Activities: the Distribution of electricity  |   |
| <b>Oman Refinery Company LLC</b><br>Regulated Activity: Generation of electricity and Desalination of water; the Distribution; and the Supply of electricity to Premises             |  |
| <b>Oman LNG LLC</b><br>Regulated Activity: Generation of electricity and Desalination of water; the Distribution; and the Supply of electricity to Premises                          |  |
| <b>Petroleum Development Oman</b><br>Regulated Activities: the Generation; Distribution, Transmission; and Supply of electricity to Premises   |  |
| <b>Occidental of Oman Inc</b><br>Regulated Activity: the Generation; Distribution of electricity   |  |
| <b>Sohar Aluminium Company LLC</b><br>Regulated Activity: Generation of electricity and Desalination of water; the Distribution; and the Transmission of electricity                 |  |
| <b>Sharqiyah Desalination Company SAOC</b><br>Regulated Activity: Generation of electricity and Desalination of water  |  |
| <b>Occidental Mukhaizna</b><br>Regulated Activity: Generation of electricity and Desalination of water; and the Distribution of electricity  |  |
| <b>Ministry of Defence</b><br>Regulated Activity: Generation of electricity for sale to PWP  |   |
| <b>SMN Barka Power Company</b><br>Regulated Activity: Generation of electricity  |  |

## ANNEX C: ELECTRICITY & RELATED WATER SECTOR STATISTICS

### Table 1

Electricity Customer Accounts by System, Company and Tariff Category: 2007 and 2008

| 2007 Accounts           | Main Interconnected System (MIS) |         |         |         |         |           | Rural Systems |         | Salalah System |         | Total Oman | % Total |
|-------------------------|----------------------------------|---------|---------|---------|---------|-----------|---------------|---------|----------------|---------|------------|---------|
|                         | % Total                          | Muscat  | % Total |         | % Total | Total MIS | RAEC          | % Total | DPC            | % Total |            |         |
|                         |                                  |         | Majan   | Mazoon  |         |           |               |         |                |         |            |         |
| Residential             | 76.2%                            | 134,261 | 91,088  | 165,916 | 79.7%   | 391,265   | 12,866        | 72.5%   | 37,545         | 75.4%   | 441,676    | 77.4%   |
| Industrial              | 0.1%                             | 230     | 77      | 42      | 0.0%    | 349       | 10            | 0.1%    | 47             | 0.1%    | 406        | 0.1%    |
| Commercial              | 20.2%                            | 35,624  | 19,818  | 30,604  | 14.7%   | 86,046    | 2,834         | 16.0%   | 8,973          | 18.0%   | 97,853     | 17.1%   |
| Agriculture & Fisheries | 0.1%                             | 120     | 1,504   | 1,608   | 0.8%    | 3,232     | 139           | 0.8%    | 85             | 0.2%    | 3,456      | 0.6%    |
| Hotels / Tourism        | 0.0%                             | 0       | 267     | 12      | 0.0%    | 279       | 13            | 0.1%    | 85             | 0.2%    | 377        | 0.1%    |
| Government              | 3.3%                             | 5,806   | 6,063   | 9,861   | 4.7%    | 21,730    | 1,859         | 10.5%   | 2,989          | 6.0%    | 26,578     | 4.7%    |
| Ministry of Defence     | 0.0%                             | 73      | 19      | 34      | 0.0%    | 126       | 36            | 0.2%    | 86             | 0.2%    | 248        | 0.0%    |
| 2007 Totals             | 100.0%                           | 176,114 | 118,836 | 208,077 | 100.0%  | 503,027   | 17,757        | 100.0%  | 49,810         | 100.0%  | 570,594    | 100.0%  |
| % of Total Oman         | 30.9%                            |         | 20.8%   | 36.5%   |         | 88.2%     | 3.1%          |         | 8.7%           |         | 100.0%     |         |
| 2008 Accounts           | Main Interconnected System (MIS) |         |         |         |         |           | Rural Systems |         | Salalah System |         | Total Oman | % Total |
|                         | % Total                          | Muscat  | % Total |         | % Total | Total MIS | RAEC          | % Total | DPC            | % Total |            |         |
|                         |                                  |         | Majan   | Mazoon  |         |           |               |         |                |         |            |         |
| Residential             | 76.4%                            | 140,662 | 95,389  | 174,049 | 79.8%   | 410,100   | 13,603        | 72.2%   | 39,101         | 75.5%   | 462,804    | 77.5%   |
| Industrial              | 0.1%                             | 244     | 97      | 42      | 0.0%    | 383       | 11            | 0.1%    | 49             | 0.1%    | 443        | 0.1%    |
| Commercial              | 20.2%                            | 37,149  | 20,812  | 31,859  | 14.6%   | 89,820    | 2,989         | 15.9%   | 9,265          | 17.9%   | 102,074    | 17.1%   |
| Agriculture & Fisheries | 0.1%                             | 121     | 1,563   | 1,718   | 0.8%    | 3,402     | 168           | 0.9%    | 86             | 0.2%    | 3,656      | 0.6%    |
| Hotels / Tourism        | 0.0%                             | 0       | 266     | 20      | 0.0%    | 286       | 20            | 0.1%    | 85             | 0.2%    | 391        | 0.1%    |
| Government              | 3.2%                             | 5,848   | 6,426   | 10,346  | 4.7%    | 22,620    | 2,020         | 10.7%   | 3,084          | 6.0%    | 27,724     | 4.6%    |
| Ministry of Defence     | 0.0%                             | 49      | 19      | 35      | 0.0%    | 103       | 40            | 0.2%    | 88             | 0.2%    | 231        | 0.0%    |
| 2008 Totals             | 100.0%                           | 184,073 | 124,572 | 218,069 | 100.0%  | 526,714   | 18,851        | 100.0%  | 51,758         | 100.0%  | 597,323    | 100.0%  |
| % of Total Oman         | 30.8%                            |         | 20.9%   | 36.5%   |         | 88.2%     | 3.2%          |         | 8.7%           |         | 100.0%     |         |
| Net Change in Accounts  |                                  | 7,959   | 5,736   | 9,992   |         | 23,687    | 1,094         |         | 1,948          |         | 26,729     |         |
| Annual % Change         | 4.5%                             |         | 4.8%    | 4.8%    |         | 4.7%      | 6.2%          |         | 3.9%           |         | 4.7%       |         |

**Table 2**

Electricity Supplied to Customers by System, Company and Tariff Category: 2007 and 2008

| 2007 MWh                | Main Interconnected System (MIS) |         |           |         |           |         | Rural Systems |         | Salalah System |         |           |         |            |         |
|-------------------------|----------------------------------|---------|-----------|---------|-----------|---------|---------------|---------|----------------|---------|-----------|---------|------------|---------|
|                         | Muscat                           | % Total | Majan     | % Total | Mazoon    | % Total | Total MIS     | % Total | RAEC           | % Total | DPC       | % Total | Total Oman | % Total |
| Residential             | 2,348,898                        | 48.7%   | 1,282,186 | 59.3%   | 1,908,992 | 68.8%   | 5,540,076     | 56.8%   | 146,377        | 53.6%   | 467,109   | 40.2%   | 6,153,562  | 55.0%   |
| Industrial              | 307,063                          | 6.4%    | 156,478   | 7.2%    | 63,291    | 2.3%    | 526,832       | 5.4%    | 3,606          | 1.3%    | 232,024   | 20.0%   | 762,463    | 6.8%    |
| Commercial              | 1,227,611                        | 25.5%   | 416,237   | 19.2%   | 327,906   | 11.8%   | 1,971,754     | 20.2%   | 31,925         | 11.7%   | 176,421   | 15.2%   | 2,180,099  | 19.5%   |
| Agriculture & Fisheries | 1,881                            | 0.0%    | 48,124    | 2.2%    | 74,507    | 2.7%    | 124,512       | 1.3%    | 7,415          | 2.7%    | 8,004     | 0.7%    | 139,931    | 1.3%    |
| Hotels / Tourism        | 0                                | 0.0%    | 8,563     | 0.4%    | 3,296     | 0.1%    | 11,859        | 0.1%    | 3,949          | 1.4%    | 1,900     | 0.2%    | 17,708     | 0.2%    |
| Government              | 915,308                          | 19.0%   | 235,270   | 10.9%   | 354,594   | 12.8%   | 1,505,172     | 15.4%   | 69,865         | 25.6%   | 189,462   | 16.3%   | 1,764,499  | 15.8%   |
| Ministry of Defence     | 19,002                           | 0.4%    | 16,293    | 0.8%    | 42,303    | 1.5%    | 77,598        | 0.8%    | 9,902          | 3.6%    | 87,528    | 7.5%    | 175,028    | 1.6%    |
| 2007 Totals             | 4,819,763                        | 100.0%  | 2,163,151 | 100.0%  | 2,774,889 | 100.0%  | 9,757,803     | 100.0%  | 273,039        | 100.0%  | 1,162,447 | 100.0%  | 11,193,289 | 100.0%  |
| % of Total Oman         | 43.1%                            |         | 19.3%     |         | 24.8%     |         | 87.2%         |         | 2.4%           |         | 10.4%     |         | 100.0%     |         |

| 2008 MWh                | Main Interconnected System (MIS) |         |           |         |           |         | Rural Systems |         | Salalah System |         |           |         |            |         |
|-------------------------|----------------------------------|---------|-----------|---------|-----------|---------|---------------|---------|----------------|---------|-----------|---------|------------|---------|
|                         | Muscat                           | % Total | Majan     | % Total | Mazoon    | % Total | Total MIS     | % Total | RAEC           | % Total | DPC       | % Total | Total Oman | % Total |
| Residential             | 2,680,377                        | 49.4%   | 1,465,931 | 55.3%   | 2,240,596 | 69.1%   | 6,386,904     | 56.4%   | 165,400        | 53.1%   | 477,275   | 39.1%   | 7,029,579  | 54.7%   |
| Industrial              | 365,057                          | 6.7%    | 300,022   | 11.3%   | 68,891    | 2.1%    | 733,970       | 6.5%    | 3,306          | 1.1%    | 246,153   | 20.2%   | 983,429    | 7.7%    |
| Commercial              | 1,371,696                        | 25.3%   | 511,581   | 19.3%   | 398,078   | 12.3%   | 2,281,355     | 20.2%   | 37,072         | 11.9%   | 206,957   | 16.9%   | 2,525,385  | 19.7%   |
| Agriculture & Fisheries | 2,252                            | 0.0%    | 53,916    | 2.0%    | 88,925    | 2.7%    | 145,093       | 1.3%    | 10,053         | 3.2%    | 13,058    | 1.1%    | 168,204    | 1.3%    |
| Hotels / Tourism        | 0                                | 0.0%    | 10,287    | 0.4%    | 7,072     | 0.2%    | 17,359        | 0.2%    | 10,643         | 3.4%    | 1,731     | 0.1%    | 29,733     | 0.2%    |
| Government              | 985,450                          | 18.2%   | 292,371   | 11.0%   | 395,869   | 12.2%   | 1,673,690     | 14.8%   | 76,219         | 24.5%   | 190,999   | 15.6%   | 1,940,907  | 15.1%   |
| Ministry of Defence     | 18,446                           | 0.3%    | 16,080    | 0.6%    | 44,477    | 1.4%    | 79,003        | 0.7%    | 8,849          | 2.8%    | 85,017    | 7.0%    | 172,869    | 1.3%    |
| 2008 Totals             | 5,423,278                        | 100.0%  | 2,650,189 | 100.0%  | 3,243,906 | 100.0%  | 11,317,373    | 100.0%  | 311,542        | 100.0%  | 1,221,190 | 100.0%  | 12,850,105 | 100.0%  |
| % of Total Oman         | 42.2%                            |         | 20.6%     |         | 25.2%     |         | 88.1%         |         | 2.4%           |         | 9.5%      |         | 100.0%     |         |
| Change in MWh           | 603,515                          |         | 487,038   |         | 469,017   |         | 1,559,570     |         | 38,503         |         | 58,743    |         | 1,656,816  |         |
| Annual % Change         | 12.5%                            |         | 22.5%     |         | 16.9%     |         | 16.0%         |         | 14.1%          |         | 5.1%      |         | 14.8%      |         |

### Table 3

Customer Accounts, MWh Supplied and MWh per Account by System, Company and Tariff Category 2008

2008

| Tariff Category                           | Item                            | Main Interconnected System (MIS) |                  |                  |                   | Rural Systems  |                  | Salalah System    |  |
|---|---------------------------------|----------------------------------|------------------|------------------|-------------------|----------------|------------------|-------------------|--|
|   |                                 | Muscat                           | Majan            | Mazoon           | Total MIS         | RAEC           | DPC              | Total Oman        |  |
| Residential                               | Accounts                        | 140,662                          | 95,389           | 174,049          | 410,100           | 13,603         | 39,101           | 462,804           |  |
| Residential                               | MWh Supplied                    | 2,680,377                        | 1,465,931        | 2,240,596        | 6,386,904         | 165,400        | 477,275          | 7,029,579         |  |
| <b>Residential</b>                        | <b>MWh Supplied per Account</b> | <b>19</b>                        | <b>15</b>        | <b>13</b>        | <b>16</b>         | <b>12</b>      | <b>12</b>        | <b>15</b>         |  |
| Industrial                                | Accounts                        | 244                              | 97               | 42               | 383               | 11             | 49               | 443               |  |
| Industrial                                | MWh Supplied                    | 365,057                          | 300,022          | 68,891           | 733,970           | 3,306          | 246,153          | 983,429           |  |
| <b>Industrial</b>                         | <b>MWh Supplied per Account</b> | <b>1,496</b>                     | <b>3,093</b>     | <b>1,640</b>     | <b>1,916</b>      | <b>301</b>     | <b>5,024</b>     | <b>2,220</b>      |  |
| Commercial                                | Accounts                        | 37,149                           | 20,812           | 31,859           | 89,820            | 2,989          | 9,265            | 102,074           |  |
| Commercial                                | MWh Supplied                    | 1,371,696                        | 511,581          | 398,078          | 2,281,355         | 37,072         | 206,957          | 2,525,385         |  |
| <b>Commercial</b>                         | <b>MWh Supplied per Account</b> | <b>37</b>                        | <b>25</b>        | <b>12</b>        | <b>25</b>         | <b>12</b>      | <b>22</b>        | <b>25</b>         |  |
| Agriculture & Fisheries                   | Accounts                        | 121                              | 1,563            | 1,718            | 3,402             | 168            | 86               | 3,656             |  |
| Agriculture & Fisheries                   | MWh Supplied                    | 2,252                            | 53,916           | 88,925           | 145,093           | 10,053         | 13,058           | 168,204           |  |
| <b>Agriculture &amp; Fisheries</b>        | <b>MWh Supplied per Account</b> | <b>19</b>                        | <b>34</b>        | <b>52</b>        | <b>43</b>         | <b>60</b>      | <b>152</b>       | <b>46</b>         |  |
| Hotels / Tourism                          | Accounts                        | 0                                | 266              | 20               | 286               | 20             | 85               | 391               |  |
| Hotels / Tourism                          | MWh Supplied                    | 0                                | 10,287           | 7,072            | 17,359            | 10,643         | 1,731            | 29,733            |  |
| <b>Hotels / Tourism</b>                   | <b>MWh Supplied per Account</b> |                                  | <b>39</b>        | <b>354</b>       | <b>61</b>         | <b>532</b>     | <b>20</b>        | <b>76</b>         |  |
| Government                                | Accounts                        | 5,848                            | 6,426            | 10,346           | 22,620            | 2,020          | 3,084            | 27,724            |  |
| Government                                | MWh Supplied                    | 985,450                          | 292,371          | 395,869          | 1,673,690         | 76,219         | 190,999          | 1,940,907         |  |
| <b>Government</b>                         | <b>MWh Supplied per Account</b> | <b>169</b>                       | <b>45</b>        | <b>38</b>        | <b>74</b>         | <b>38</b>      | <b>62</b>        | <b>70</b>         |  |
| Ministry of Defence                       | Accounts                        | 49                               | 19               | 35               | 103               | 40             | 88               | 231               |  |
| Ministry of Defence                       | MWh Supplied                    | 18,446                           | 16,080           | 44,477           | 79,003            | 8,849          | 85,017           | 172,869           |  |
| <b>Ministry of Defence</b>                | <b>MWh Supplied per Account</b> | <b>376</b>                       | <b>846</b>       | <b>1,271</b>     | <b>767</b>        | <b>221</b>     | <b>966</b>       | <b>748</b>        |  |
| <b>Total Customer Accounts in 2008</b>    |                                 | <b>184,073</b>                   | <b>124,572</b>   | <b>218,069</b>   | <b>526,714</b>    | <b>18,851</b>  | <b>51,758</b>    | <b>597,323</b>    |  |
| <b>Total MWh Supplied in 2008</b>         |                                 | <b>5,423,278</b>                 | <b>2,650,189</b> | <b>3,243,906</b> | <b>11,317,373</b> | <b>311,542</b> | <b>1,221,190</b> | <b>12,850,105</b> |  |
| <b>MWh Supplied per Account in 2008</b>   |                                 | <b>29.5</b>                      | <b>21.3</b>      | <b>14.9</b>      | <b>21.5</b>       | <b>16.5</b>    | <b>23.6</b>      | <b>21.5</b>       |  |
| <b>% change MWh per Account from 2007</b> |                                 | <b>7.7%</b>                      | <b>16.9%</b>     | <b>11.5%</b>     | <b>10.8%</b>      | <b>7.5%</b>    | <b>1.1%</b>      | <b>9.7%</b>       |  |

**Table 4**

Electricity Supply & Registered Accounts by Region & Company

| <b>2007</b>                  |          |                   |        |                |        |                        |
|------------------------------|----------|-------------------|--------|----------------|--------|------------------------|
| Region                       | Company  | MWh Supplied      | % Oman | Accounts       | % Oman | MWh Supply per Account |
| <b>Al Dahirah</b>            | Majan    | 776,493           | 6.9%   | 52,875         | 9.3%   | 14.7                   |
| <b>Al Sharquia</b>           | Mazoon   | 818,619           | 7.3%   | 73,446         | 12.9%  | 11.1                   |
| <b>Al Wusta</b>              | RAEC     | 77,096            | 0.7%   | 5,558          | 1.0%   | 13.9                   |
| <b>Dakhliyah</b>             | Mazoon   | 853,277           | 7.6%   | 63,338         | 11.1%  | 13.5                   |
| <b>Dhofar</b>                | DPC SAOG | 1,162,447         | 10.4%  | 49,810         | 8.7%   | 23.3                   |
| <b>Dhofar</b>                | RAEC     | 55,968            | 0.5%   | 3,027          | 0.5%   | 18.5                   |
| <b>Musandam</b>              | RAEC     | 139,975           | 1.3%   | 9,172          | 1.6%   | 15.3                   |
| <b>Muscat</b>                | Muscat   | 4,819,763         | 43.1%  | 176,114        | 30.9%  | 27.4                   |
| <b>North Batinah</b>         | Majan    | 1,386,658         | 12.4%  | 65,961         | 11.6%  | 21.0                   |
| <b>South Batinah</b>         | Mazoon   | 1,102,993         | 9.9%   | 71,293         | 12.5%  | 15.5                   |
| <b>Sultanate Totals 2007</b> |          | <b>11,193,289</b> |        | <b>570,594</b> |        | <b>19.6</b>            |
| <b>2008</b>                  |          |                   |        |                |        |                        |
| Region                       | Company  | MWh Supplied      | % Oman | Accounts       | % Oman | MWh Supply per Account |
| <b>Al Dahirah</b>            | Majan    | 873,316           | 6.8%   | 54,870         | 9.2%   | 15.9                   |
| <b>Al Sharquia</b>           | Mazoon   | 950,582           | 7.4%   | 77,372         | 13.0%  | 12.3                   |
| <b>Al Wusta</b>              | RAEC     | 87,305            | 0.7%   | 6,281          | 1.1%   | 13.9                   |
| <b>Dakhliyah</b>             | Mazoon   | 968,937           | 7.5%   | 65,965         | 11.0%  | 14.7                   |
| <b>Dhofar</b>                | DPC SAOG | 1,221,190         | 9.5%   | 51,758         | 8.7%   | 23.6                   |
| <b>Dhofar</b>                | RAEC     | 61,924            | 0.5%   | 3,216          | 0.5%   | 19.3                   |
| <b>Musandam</b>              | RAEC     | 162,313           | 1.3%   | 9,354          | 1.6%   | 17.4                   |
| <b>Muscat</b>                | Muscat   | 5,423,278         | 42.2%  | 184,073        | 30.8%  | 29.5                   |
| <b>North Batinah</b>         | Majan    | 1,776,873         | 13.8%  | 69,702         | 11.7%  | 25.5                   |
| <b>South Batinah</b>         | Mazoon   | 1,324,387         | 10.3%  | 74,732         | 12.5%  | 17.7                   |
| <b>Sultanate Totals 2008</b> |          | <b>12,850,105</b> |        | <b>597,323</b> |        | <b>21.5</b>            |

**Table 5**

Electricity & Related Water Production by System: 2006, 2007 and 2008

| <b>2006</b>                |                               |               |                   |               |                                 |               |                   |               |
|----------------------------|-------------------------------|---------------|-------------------|---------------|---------------------------------|---------------|-------------------|---------------|
| <b>System</b>              | <b>Electricity Production</b> |               |                   |               | <b>Related Water Production</b> |               |                   |               |
|                            | <b>Gross MWh</b>              | <b>% Year</b> | <b>Net MWh</b>    | <b>% Year</b> | <b>Gross m3</b>                 | <b>% Year</b> | <b>Net m3</b>     | <b>% Year</b> |
| Main Interconnected System | 12,121,472                    | 88.7%         | 11,781,999        | 88.7%         | 83,801,093                      | 95.1%         | 82,104,359        | 95.0%         |
| Rural Systems              | 272,247                       | 2.0%          | 252,493           | 1.9%          | 4,285,594                       | 4.9%          | 4,278,981         | 5.0%          |
| Salalah Power System       | 1,270,544                     | 9.3%          | 1,252,300         | 9.4%          |                                 |               |                   |               |
| <b>Total for 2006</b>      | <b>13,664,262</b>             |               | <b>13,286,792</b> |               | <b>88,086,687</b>               |               | <b>86,383,340</b> |               |

| <b>2007</b>                |                               |               |                   |               |                                 |               |                   |               |
|----------------------------|-------------------------------|---------------|-------------------|---------------|---------------------------------|---------------|-------------------|---------------|
| <b>System</b>              | <b>Electricity Production</b> |               |                   |               | <b>Related Water Production</b> |               |                   |               |
|                            | <b>Gross MWh</b>              | <b>% Year</b> | <b>Net MWh</b>    | <b>% Year</b> | <b>Gross m3</b>                 | <b>% Year</b> | <b>Net m3</b>     | <b>% Year</b> |
| Main Interconnected System | 12,882,454                    | 88.2%         | 12,456,749        | 88.1%         | 105,623,469                     | 99.4%         | 84,350,069        | 99.3%         |
| Rural Systems              | 309,354                       | 2.1%          | 289,175           | 2.0%          | 596,858                         | 0.6%          | 601,982           | 0.7%          |
| Salalah Power System       | 1,406,455                     | 9.6%          | 1,387,520         | 9.8%          |                                 |               |                   |               |
| <b>Total for 2007</b>      | <b>14,598,263</b>             |               | <b>14,133,444</b> |               | <b>106,220,327</b>              |               | <b>84,952,051</b> |               |

| <b>2008</b>                |                               |               |                   |               |                                 |               |                   |               |
|----------------------------|-------------------------------|---------------|-------------------|---------------|---------------------------------|---------------|-------------------|---------------|
| <b>System</b>              | <b>Electricity Production</b> |               |                   |               | <b>Related Water Production</b> |               |                   |               |
|                            | <b>Gross MWh</b>              | <b>% Year</b> | <b>Net MWh</b>    | <b>% Year</b> | <b>Gross m3</b>                 | <b>% Year</b> | <b>Net m3</b>     | <b>% Year</b> |
| Main Interconnected System | 14,211,629                    | 88.5%         | 13,925,377        | 88.6%         | 113,174,100                     | 99.3%         | 97,078,288        | 99.3%         |
| Rural Systems              | 349,265                       | 2.2%          | 325,839           | 2.1%          | 742,651                         | 0.7%          | 733,091           | 0.7%          |
| Salalah Power System       | 1,488,552                     | 9.3%          | 1,469,197         | 9.3%          |                                 |               |                   |               |
| <b>Total for 2008</b>      | <b>16,049,446</b>             |               | <b>15,720,413</b> |               | <b>113,916,751</b>              |               | <b>97,811,379</b> |               |



**Table 6**

Electricity & Related Water Production by System and Company: 2007 & 2008

| 2007                                 | Electricity Production |              |                   |              | Related Water Production |              |                   |              |
|--------------------------------------|------------------------|--------------|-------------------|--------------|--------------------------|--------------|-------------------|--------------|
|                                      | Gross MWh              | % Oman       | Net MWh           | % Oman       | Gross m3                 | % Oman       | Net m3            | % Oman       |
| <b>A: Main Interconnected System</b> |                        |              |                   |              |                          |              |                   |              |
| AES Barka SAOG                       | 2,316,891              | 15.9%        | 2,136,720         | 15.1%        | 29,775,241               | 28.0%        | 29,520,516        | 34.7%        |
| Al Ghubrah SAOC                      | 2,807,337              | 19.2%        | 2,604,094         | 18.4%        | 53,982,813               | 50.8%        | 52,887,006        | 62.3%        |
| Al Kamil SAOG                        | 1,102,052              | 7.5%         | 1,089,399         | 7.7%         | 0                        | 0.0%         | 0                 | 0.0%         |
| Al Rusail SAOC                       | 2,553,217              | 17.5%        | 2,527,042         | 17.9%        | 0                        | 0.0%         | 0                 | 0.0%         |
| UPC Manah SAOG                       | 993,452                | 6.8%         | 981,798           | 6.9%         | 0                        | 0.0%         | 0                 | 0.0%         |
| Wadi Jizzi SAOC                      | 1,009,313              | 6.9%         | 998,751           | 7.1%         | 0                        | 0.0%         | 0                 | 0.0%         |
| Sohar Power Company SAOC             | 2,100,192              | 14.4%        | 1,996,454         | 14.1%        | 21,865,415               | 20.6%        | 1,942,547         | 2.3%         |
| PWP purchases                        | 0                      | 0.0%         | 122,491           | 0.9%         | 0                        | 0.0%         | 0                 | 0.0%         |
| <b>MIS sub-total</b>                 | <b>12,882,454</b>      | <b>88.2%</b> | <b>12,456,749</b> | <b>88.1%</b> | <b>105,623,469</b>       | <b>99.4%</b> | <b>84,350,069</b> | <b>99.3%</b> |
| <b>B: Rural Systems</b>              |                        |              |                   |              |                          |              |                   |              |
| RAEC SAOC                            | 309,354                | 2.1%         | 289,175           | 2.0%         | 596,858                  | 0.6%         | 601,982           | 0.7%         |
| <b>Rural Systems sub-total</b>       | <b>309,354</b>         | <b>2.1%</b>  | <b>289,175</b>    | <b>2.0%</b>  | <b>596,858</b>           | <b>0.6%</b>  | <b>601,982</b>    | <b>0.7%</b>  |
| <b>C: Salalah Power System</b>       |                        |              |                   |              |                          |              |                   |              |
| RAEC SAOC                            | 15,737                 | 0.1%         | 14,524            | 0.1%         |                          |              |                   |              |
| DPC SAOG                             | 1,390,718              | 9.5%         | 1,372,996         | 9.7%         |                          |              |                   |              |
| <b>Salalah System sub-total</b>      | <b>1,406,455</b>       | <b>9.6%</b>  | <b>1,387,520</b>  | <b>9.8%</b>  |                          |              |                   |              |
| <b>Totals for 2007</b>               | <b>14,598,263</b>      | <b>100%</b>  | <b>14,133,444</b> | <b>100%</b>  | <b>106,220,327</b>       | <b>100%</b>  | <b>84,952,051</b> | <b>100%</b>  |
| 2008                                 | Electricity Production |              |                   |              | Related Water Production |              |                   |              |
|                                      | Gross MWh              | % Oman       | Net MWh           | % Oman       | Gross m3                 | % Oman       | Net m3            | % Oman       |
| <b>A: Main Interconnected System</b> |                        |              |                   |              |                          |              |                   |              |
| AES Barka SAOG                       | 2,504,660              | 15.6%        | 2,312,365         | 14.7%        | 30,443,578               | 26.7%        | 30,149,824        | 30.8%        |
| Al Ghubrah SAOC                      | 2,885,070              | 18.0%        | 2,653,731         | 16.9%        | 56,111,138               | 49.3%        | 55,034,935        | 56.3%        |
| Al Kamil SAOG                        | 1,148,682              | 7.2%         | 1,135,666         | 7.2%         | 0                        | 0.0%         | 0                 | 0.0%         |
| Al Rusail SAOC                       | 2,727,790              | 17.0%        | 2,701,675         | 17.2%        | 0                        | 0.0%         | 0                 | 0.0%         |
| UPC Manah SAOG                       | 1,024,426              | 6.4%         | 1,012,819         | 6.4%         | 0                        | 0.0%         | 0                 | 0.0%         |
| Wadi Jizzi SAOC                      | 677,418                | 4.2%         | 669,799           | 4.3%         | 0                        | 0.0%         | 0                 | 0.0%         |
| Sohar Power Company SAOC             | 3,117,492              | 19.4%        | 2,929,854         | 18.6%        | 26,619,384               | 23.4%        | 11,893,529        | 12.2%        |
| SMN Barka SAOC                       | 126,091                | 0.8%         | 124,472           | 0.8%         | 0                        | 0.0%         | 0                 | 0.0%         |
| PWP purchases                        | 0                      | 0.0%         | 384,996           | 2.4%         | 0                        | 0.0%         | 0                 | 0.0%         |
| <b>MIS sub-total</b>                 | <b>14,211,629</b>      | <b>88.5%</b> | <b>13,925,377</b> | <b>88.6%</b> | <b>113,174,100</b>       | <b>99.3%</b> | <b>97,078,288</b> | <b>99.3%</b> |
| <b>% change from 2007</b>            | <b>10.3%</b>           |              | <b>11.8%</b>      |              | <b>7.1%</b>              |              | <b>15.1%</b>      |              |
| <b>B: Rural Systems</b>              |                        |              |                   |              |                          |              |                   |              |
| RAEC SAOC                            | 349,265                | 2.2%         | 325,839           | 2.1%         | 742,651                  | 0.7%         | 733,091           | 0.7%         |
| <b>Rural Systems sub-total</b>       | <b>349,265</b>         | <b>2.2%</b>  | <b>325,839</b>    | <b>2.1%</b>  | <b>742,651</b>           | <b>0.7%</b>  | <b>733,091</b>    | <b>0.7%</b>  |
| <b>% change from 2007</b>            | <b>12.9%</b>           |              | <b>12.7%</b>      |              | <b>24.4%</b>             |              | <b>21.8%</b>      |              |
| <b>C: Salalah Power System</b>       |                        |              |                   |              |                          |              |                   |              |
| RAEC SAOC                            | 2,301                  | 0.0%         | 2,101             | 0.0%         |                          |              |                   |              |
| DPC SAOG                             | 1,486,251              | 9.3%         | 1,467,095         | 9.3%         |                          |              |                   |              |
| <b>Salalah System sub-total</b>      | <b>1,488,552</b>       | <b>9.3%</b>  | <b>1,469,197</b>  | <b>9.3%</b>  |                          |              |                   |              |
| <b>% change from 2007</b>            | <b>5.8%</b>            |              | <b>5.9%</b>       |              |                          |              |                   |              |
| <b>Totals for 2008</b>               | <b>16,049,446</b>      | <b>100%</b>  | <b>15,720,413</b> | <b>100%</b>  | <b>113,916,751</b>       | <b>100%</b>  | <b>97,811,379</b> | <b>100%</b>  |
| <b>Actual change from 2007</b>       | <b>1,451,182</b>       |              | <b>1,586,970</b>  |              | <b>7,696,424</b>         |              | <b>12,859,328</b> |              |
| <b>% change from 2007</b>            | <b>9.9%</b>            |              | <b>11.2%</b>      |              | <b>7.2%</b>              |              | <b>15.1%</b>      |              |



**Table 7**

Electricity and Related Water Production by Region: 2007 and 2008

| 2007<br>Region         | Electricity Production |        |                   |        | Related Water Production |        |                   |        |
|------------------------|------------------------|--------|-------------------|--------|--------------------------|--------|-------------------|--------|
|                        | MWh Gross              | % Oman | MWh Net           | % Oman | m3 Gross                 | % Oman | m3 Net            | % Oman |
| Al Dahirah             | 445                    | 0.0%   | 397               | 0.0%   |                          |        |                   |        |
| Al Sharqiya            | 1,133,867              | 7.8%   | 1,114,175         | 7.9%   | 472,245                  | 0.4%   | 495,916           | 0.6%   |
| Al Wusta               | 36,664                 | 0.3%   | 35,692            | 0.3%   | 46,313                   | 0.0%   | 38,650            | 0.0%   |
| Dakhliyah              | 993,452                | 6.8%   | 981,798           | 6.9%   |                          |        |                   |        |
| Dhofar                 | 1,464,390              | 10.0%  | 1,444,532         | 10.2%  | 20,919                   | 0.0%   | 20,509            | 0.0%   |
| Musandam               | 182,495                | 1.3%   | 171,298           | 1.2%   | 57,381                   | 0.1%   | 46,907            | 0.1%   |
| Muscat                 | 5,360,554              | 36.7%  | 5,206,967         | 36.8%  | 53,982,813               | 50.8%  | 52,887,006        | 62.3%  |
| North Batinah          | 3,109,506              | 21.3%  | 3,041,865         | 21.5%  | 21,865,415               | 20.6%  | 1,942,547         | 2.3%   |
| South Batinah          | 2,316,891              | 15.9%  | 2,136,720         | 15.1%  | 29,775,241               | 28.0%  | 29,520,516        | 34.7%  |
| <b>Totals for 2007</b> | <b>14,598,263</b>      |        | <b>14,133,444</b> |        | <b>106,220,327</b>       |        | <b>84,952,051</b> |        |

| 2008<br>Region         | Electricity Production |        |                   |        | Related Water Production |        |                   |        |
|------------------------|------------------------|--------|-------------------|--------|--------------------------|--------|-------------------|--------|
|                        | MWh Gross              | % Oman | MWh Net           | % Oman | m3 Gross                 | % Oman | m3 Net            | % Oman |
| Al Dahirah             | 516                    | 0.0%   | 476               | 0.0%   |                          |        |                   |        |
| Change from 2007 (%)   | 15.9%                  |        | 19.8%             |        |                          |        |                   |        |
| Al Sharqiya            | 1,181,255              | 7.4%   | 1,163,079         | 7.4%   | 617,818                  | 0.5%   | 612,760           | 0.6%   |
| Change from 2007 (%)   | 4.2%                   |        | 4.4%              |        | 30.8%                    |        | 23.6%             |        |
| Al Wusta               | 43,372                 | 0.3%   | 96,420            | 0.6%   | 57,346                   | 0.1%   | 55,321            | 0.1%   |
| Change from 2007 (%)   | 18.3%                  |        | 170.1%            |        | 23.8%                    |        | 43.1%             |        |
| Dakhliyah              | 1,024,426              | 6.4%   | 1,012,819         | 6.4%   |                          |        |                   |        |
| Change from 2007 (%)   | 3.1%                   |        | 3.2%              |        |                          |        |                   |        |
| Dhofar                 | 1,556,137              | 9.7%   | 1,535,909         | 9.8%   | 22,118                   | 0.0%   | 21,918            | 0.0%   |
| Change from 2007 (%)   | 6.3%                   |        | 6.3%              |        | 5.7%                     |        | 6.9%              |        |
| Musandam               | 205,219                | 1.3%   | 191,537           | 1.2%   | 45,369                   | 0.0%   | 43,092            | 0.0%   |
| Change from 2007 (%)   | 12.5%                  |        | 11.8%             |        | -20.9%                   |        | -8.1%             |        |
| Muscat                 | 5,612,860              | 35.0%  | 5,363,864         | 34.1%  | 56,111,138               | 49.3%  | 55,034,935        | 56.3%  |
| Change from 2007 (%)   | 4.7%                   |        | 3.0%              |        | 3.9%                     |        | 4.1%              |        |
| North Batinah          | 3,794,910              | 23.6%  | 3,919,474         | 24.9%  | 26,619,384               | 23.4%  | 11,893,529        | 12.2%  |
| Change from 2007 (%)   | 22.0%                  |        | 28.9%             |        | 21.7%                    |        | 512.3%            |        |
| South Batinah          | 2,630,751              | 16.4%  | 2,436,837         | 15.5%  | 30,443,578               | 26.7%  | 30,149,824        | 30.8%  |
| Change from 2007 (%)   | 13.5%                  |        | 14.0%             |        | 2.2%                     |        | 2.1%              |        |
| <b>Totals for 2008</b> | <b>16,049,446</b>      |        | <b>15,720,413</b> |        | <b>113,916,751</b>       |        | <b>97,811,379</b> |        |
| Change from 2007 (%)   | 9.9%                   |        | 11.2%             |        | 7.2%                     |        | 15.1%             |        |

**Table 8**

Electricity & Related Water Production by Region and Company: 2007 and 2008

| <b>2007</b>                  |                     | <b>Electricity Production</b> |               |                   |               | <b>Related Water Production</b> |               |                   |               |
|------------------------------|---------------------|-------------------------------|---------------|-------------------|---------------|---------------------------------|---------------|-------------------|---------------|
| <b>Region</b>                | <b>Company</b>      | <b>Gross MWh</b>              | <b>% Oman</b> | <b>Net MWh</b>    | <b>% Oman</b> | <b>Gross m3</b>                 | <b>% Oman</b> | <b>Net m3</b>     | <b>% Oman</b> |
| <b>Al Dahirah</b>            | RAEC SAOC           | 445                           | 0.0%          | 397               | 0.0%          |                                 |               |                   |               |
| <b>Al Sharqiya</b>           | Al Kamil SAOG       | 1,102,052                     | 7.5%          | 1,089,399         | 7.7%          |                                 |               |                   |               |
| <b>Al Sharqiya</b>           | RAEC SAOC           | 31,815                        | 0.2%          | 24,776            | 0.2%          | 472,245                         | 0.4%          | 495,916           | 0.6%          |
| <b>Al Wusta</b>              | RAEC SAOC           | 36,664                        | 0.3%          | 35,692            | 0.3%          | 46,313                          | 0.0%          | 38,650            | 0.0%          |
| <b>Dakhliyah</b>             | UPC Manah SAOG      | 993,452                       | 6.8%          | 981,798           | 6.9%          |                                 |               |                   |               |
| <b>Dhofar</b>                | DPC SAOG            | 1,390,718                     | 9.5%          | 1,372,996         | 9.7%          |                                 |               |                   |               |
| <b>Dhofar</b>                | RAEC SAOC           | 73,673                        | 0.5%          | 71,536            | 0.5%          | 20,919                          | 0.0%          | 20,509            | 0.0%          |
| <b>Musandam</b>              | RAEC SAOC           | 182,495                       | 1.3%          | 171,298           | 1.2%          | 57,381                          | 0.1%          | 46,907            | 0.1%          |
| <b>Muscat</b>                | Al Ghubrah SAOC     | 2,807,337                     | 19.2%         | 2,604,094         | 18.4%         | 53,982,813                      | 50.8%         | 52,887,006        | 62.3%         |
| <b>Muscat</b>                | Al Rusail SAOC      | 2,553,217                     | 17.5%         | 2,527,042         | 17.9%         |                                 |               |                   |               |
| <b>Muscat</b>                | PWP purchases       | 0                             | 0.0%          | 75,831            | 0.5%          |                                 |               |                   |               |
| <b>North Batinah</b>         | PWP purchases       | 0                             | 0.0%          | 46,659            | 0.3%          |                                 |               |                   |               |
| <b>North Batinah</b>         | Sohar Power Company | 2,100,192                     | 14.4%         | 1,996,454         | 14.1%         | 21,865,415                      | 20.6%         | 1,942,547         | 2.3%          |
| <b>North Batinah</b>         | Wadi Jizzi SAOC     | 1,009,313                     | 6.9%          | 998,751           | 7.1%          |                                 |               |                   |               |
| <b>South Batinah</b>         | AES Barka SAOG      | 2,316,891                     | 15.9%         | 2,136,720         | 15.1%         | 29,775,241                      | 28.0%         | 29,520,516        | 34.7%         |
| <b>Sultanate Totals 2007</b> |                     | <b>14,598,263</b>             |               | <b>14,133,444</b> |               | <b>106,220,327</b>              |               | <b>84,952,051</b> |               |
| <b>2008</b>                  |                     | <b>Electricity Production</b> |               |                   |               | <b>Related Water Production</b> |               |                   |               |
| <b>Region</b>                | <b>Company</b>      | <b>Gross MWh</b>              | <b>% Oman</b> | <b>Net MWh</b>    | <b>% Oman</b> | <b>Gross m3</b>                 | <b>% Oman</b> | <b>Net m3</b>     | <b>% Oman</b> |
| <b>Al Dahirah</b>            | RAEC SAOC           | 516                           | 0.0%          | 476               | 0.0%          |                                 |               |                   |               |
| <b>Al Sharqiya</b>           | Al Kamil SAOG       | 1,148,682                     | 7.2%          | 1,135,666         | 7.2%          |                                 |               |                   |               |
| <b>Al Sharqiya</b>           | PWP purchases       | 0                             | 0.0%          | 1,953             | 0.0%          |                                 |               |                   |               |
| <b>Al Sharqiya</b>           | RAEC SAOC           | 32,573                        | 0.2%          | 25,460            | 0.2%          | 617,818                         | 0.5%          | 612,760           | 0.6%          |
| <b>Al Wusta</b>              | PWP purchases       | 0                             | 0.0%          | 54,765            | 0.3%          |                                 |               |                   |               |
| <b>Al Wusta</b>              | RAEC SAOC           | 43,372                        | 0.3%          | 41,655            | 0.3%          | 57,346                          | 0.1%          | 55,321            | 0.1%          |
| <b>Dakhliyah</b>             | UPC Manah SAOG      | 1,024,426                     | 6.4%          | 1,012,819         | 6.4%          |                                 |               |                   |               |
| <b>Dhofar</b>                | DPC SAOG            | 1,486,251                     | 9.3%          | 1,467,095         | 9.3%          |                                 |               |                   |               |
| <b>Dhofar</b>                | RAEC SAOC           | 69,886                        | 0.4%          | 68,813            | 0.4%          | 22,118                          | 0.0%          | 21,918            | 0.0%          |
| <b>Musandam</b>              | RAEC SAOC           | 205,219                       | 1.3%          | 191,537           | 1.2%          | 45,369                          | 0.0%          | 43,092            | 0.0%          |
| <b>Muscat</b>                | Al Ghubrah SAOC     | 2,885,070                     | 18.0%         | 2,653,731         | 16.9%         | 56,111,138                      | 49.3%         | 55,034,935        | 56.3%         |
| <b>Muscat</b>                | Al Rusail SAOC      | 2,727,790                     | 17.0%         | 2,701,675         | 17.2%         |                                 |               |                   |               |
| <b>Muscat</b>                | PWP purchases       | 0                             | 0.0%          | 8,457             | 0.1%          |                                 |               |                   |               |
| <b>North Batinah</b>         | PWP purchases       | 0                             | 0.0%          | 319,821           | 2.0%          |                                 |               |                   |               |
| <b>North Batinah</b>         | Sohar Power Company | 3,117,492                     | 19.4%         | 2,929,854         | 18.6%         | 26,619,384                      | 23.4%         | 11,893,529        | 12.2%         |
| <b>North Batinah</b>         | Wadi Jizzi SAOC     | 677,418                       | 4.2%          | 669,799           | 4.3%          |                                 |               |                   |               |
| <b>South Batinah</b>         | AES Barka SAOG      | 2,504,660                     | 15.6%         | 2,312,365         | 14.7%         | 30,443,578                      | 26.7%         | 30,149,824        | 30.8%         |
| <b>South Batinah</b>         | SMN Barka SAOC      | 126,091                       | 0.8%          | 124,472           | 0.8%          |                                 |               |                   |               |
| <b>Sultanate Totals 2008</b> |                     | <b>16,049,446</b>             |               | <b>15,720,413</b> |               | <b>113,916,751</b>              |               | <b>97,811,379</b> |               |
| Change from 2007 (%)         |                     | 9.9%                          |               | 11.2%             |               | 7.2%                            |               | 15.1%             |               |

**Table 9 i**

**Monthly Production by System: MIS 2007 and 2008**

| <b>2007</b>        |              | <b>Electricity Production</b> |               |                 |               | <b>Related Water Production</b> |               |                    |               |
|--------------------|--------------|-------------------------------|---------------|-----------------|---------------|---------------------------------|---------------|--------------------|---------------|
| <b>System</b>      | <b>Month</b> | <b>Gross GWh</b>              | <b>% Year</b> | <b>Net GWh</b>  | <b>% Year</b> | <b>Gross '000 m3</b>            | <b>% Year</b> | <b>Net '000 m3</b> | <b>% Year</b> |
| MIS                | Jan-07       | 572.7                         | 4.4%          | 548.6           | 4.4%          | 6,622.5                         | 6.3%          | 6,508.3            | 7.7%          |
| MIS                | Feb-07       | 593.8                         | 4.6%          | 566.2           | 4.5%          | 7,111.0                         | 6.7%          | 6,058.2            | 7.2%          |
| MIS                | Mar-07       | 742.2                         | 5.8%          | 707.4           | 5.7%          | 10,125.6                        | 9.6%          | 6,590.5            | 7.8%          |
| MIS                | Apr-07       | 1,096.7                       | 8.5%          | 1,071.6         | 8.6%          | 8,988.8                         | 8.5%          | 7,221.8            | 8.6%          |
| MIS                | May-07       | 1,456.4                       | 11.3%         | 1,417.0         | 11.4%         | 9,978.6                         | 9.4%          | 7,728.4            | 9.2%          |
| MIS                | Jun-07       | 1,388.0                       | 10.8%         | 1,344.3         | 10.8%         | 8,802.5                         | 8.3%          | 6,347.1            | 7.5%          |
| MIS                | Jul-07       | 1,577.2                       | 12.2%         | 1,531.9         | 12.3%         | 9,825.1                         | 9.3%          | 7,478.7            | 8.9%          |
| MIS                | Aug-07       | 1,492.2                       | 11.6%         | 1,438.9         | 11.6%         | 10,121.1                        | 9.6%          | 7,791.2            | 9.2%          |
| MIS                | Sep-07       | 1,383.9                       | 10.7%         | 1,340.8         | 10.8%         | 9,503.4                         | 9.0%          | 7,482.1            | 8.9%          |
| MIS                | Oct-07       | 1,010.6                       | 7.8%          | 970.1           | 7.8%          | 8,840.4                         | 8.4%          | 7,496.4            | 8.9%          |
| MIS                | Nov-07       | 882.0                         | 6.8%          | 843.3           | 6.8%          | 7,928.3                         | 7.5%          | 6,713.4            | 8.0%          |
| MIS                | Dec-07       | 686.9                         | 5.3%          | 676.6           | 5.4%          | 7,776.4                         | 7.4%          | 6,933.9            | 8.2%          |
| <b>2007 Totals</b> |              | <b>12,882.5</b>               |               | <b>12,456.7</b> |               | <b>105,623.5</b>                |               | <b>84,350.1</b>    |               |

| <b>2008</b>        |              | <b>Electricity Production</b> |               |                 |               | <b>Related Water Production</b> |               |                    |               |
|--------------------|--------------|-------------------------------|---------------|-----------------|---------------|---------------------------------|---------------|--------------------|---------------|
| <b>System</b>      | <b>Month</b> | <b>Gross GWh</b>              | <b>% Year</b> | <b>Net GWh</b>  | <b>% Year</b> | <b>Gross '000 m3</b>            | <b>% Year</b> | <b>Net '000 m3</b> | <b>% Year</b> |
| MIS                | Jan-08       | 613.7                         | 4.3%          | 600.7           | 4.3%          | 7,472.5                         | 6.6%          | 6,953.9            | 7.2%          |
| MIS                | Feb-08       | 577.1                         | 4.1%          | 580.2           | 4.2%          | 6,930.4                         | 6.1%          | 6,555.5            | 6.8%          |
| MIS                | Mar-08       | 846.6                         | 6.0%          | 842.8           | 6.1%          | 8,769.0                         | 7.7%          | 7,963.5            | 8.2%          |
| MIS                | Apr-08       | 1,153.8                       | 8.1%          | 1,150.9         | 8.3%          | 9,669.4                         | 8.5%          | 7,868.3            | 8.1%          |
| MIS                | May-08       | 1,608.5                       | 11.3%         | 1,583.2         | 11.4%         | 11,273.0                        | 10.0%         | 8,668.0            | 8.9%          |
| MIS                | Jun-08       | 1,607.5                       | 11.3%         | 1,587.2         | 11.4%         | 11,117.1                        | 9.8%          | 8,514.6            | 8.8%          |
| MIS                | Jul-08       | 1,627.1                       | 11.4%         | 1,618.7         | 11.6%         | 11,039.8                        | 9.8%          | 8,522.8            | 8.8%          |
| MIS                | Aug-08       | 1,561.2                       | 11.0%         | 1,512.8         | 10.9%         | 9,538.4                         | 8.4%          | 8,149.1            | 8.4%          |
| MIS                | Sep-08       | 1,592.4                       | 11.2%         | 1,533.9         | 11.0%         | 9,391.6                         | 8.3%          | 8,184.0            | 8.4%          |
| MIS                | Oct-08       | 1,378.6                       | 9.7%          | 1,345.8         | 9.7%          | 9,899.3                         | 8.7%          | 8,353.1            | 8.6%          |
| MIS                | Nov-08       | 928.9                         | 6.5%          | 893.6           | 6.4%          | 9,107.7                         | 8.0%          | 8,700.1            | 9.0%          |
| MIS                | Dec-08       | 716.2                         | 5.0%          | 675.5           | 4.9%          | 8,965.9                         | 7.9%          | 8,645.5            | 8.9%          |
| <b>2008 Totals</b> |              | <b>14,211.6</b>               |               | <b>13,925.4</b> |               | <b>113,174.1</b>                |               | <b>97,078.3</b>    |               |

**Table 9 ii**

**Monthly Production by System: Rural Systems 2007 and 2008**

| <b>2007</b>        |              | <b>Electricity Production</b> |                   |                    |                   | <b>Related Water Production</b> |                   |                        |                   |
|--------------------|--------------|-------------------------------|-------------------|--------------------|-------------------|---------------------------------|-------------------|------------------------|-------------------|
| <b>System</b>      | <b>Month</b> | <b>Gross<br/>GWh</b>          | <b>%<br/>Year</b> | <b>Net<br/>GWh</b> | <b>%<br/>Year</b> | <b>Gross<br/>'000 m3</b>        | <b>%<br/>Year</b> | <b>Net<br/>'000 m3</b> | <b>%<br/>Year</b> |
| Rural Systems      | Jan-07       | 13.3                          | 4.3%              | 12.2               | 4.2%              | 52.1                            | 8.7%              | 51.5                   | 8.6%              |
| Rural Systems      | Feb-07       | 13.9                          | 4.5%              | 12.8               | 4.4%              | 49.3                            | 8.3%              | 47.0                   | 7.8%              |
| Rural Systems      | Mar-07       | 18.3                          | 5.9%              | 16.9               | 5.9%              | 52.8                            | 8.8%              | 51.5                   | 8.6%              |
| Rural Systems      | Apr-07       | 26.5                          | 8.6%              | 24.7               | 8.6%              | 47.8                            | 8.0%              | 46.7                   | 7.8%              |
| Rural Systems      | May-07       | 34.1                          | 11.0%             | 32.0               | 11.1%             | 51.7                            | 8.7%              | 49.4                   | 8.2%              |
| Rural Systems      | Jun-07       | 33.6                          | 10.9%             | 31.5               | 10.9%             | 44.2                            | 7.4%              | 40.8                   | 6.8%              |
| Rural Systems      | Jul-07       | 34.1                          | 11.0%             | 32.1               | 11.1%             | 43.0                            | 7.2%              | 40.4                   | 6.7%              |
| Rural Systems      | Aug-07       | 33.8                          | 10.9%             | 31.7               | 11.0%             | 44.1                            | 7.4%              | 43.0                   | 7.1%              |
| Rural Systems      | Sep-07       | 33.8                          | 10.9%             | 31.7               | 11.0%             | 46.7                            | 7.8%              | 54.1                   | 9.0%              |
| Rural Systems      | Oct-07       | 28.2                          | 9.1%              | 26.4               | 9.1%              | 44.3                            | 7.4%              | 60.7                   | 10.1%             |
| Rural Systems      | Nov-07       | 22.2                          | 7.2%              | 20.8               | 7.2%              | 57.6                            | 9.7%              | 57.1                   | 9.5%              |
| Rural Systems      | Dec-07       | 17.6                          | 5.7%              | 16.4               | 5.7%              | 63.2                            | 10.6%             | 59.7                   | 9.9%              |
| <b>2007 Totals</b> |              | <b>309.4</b>                  |                   | <b>289.2</b>       |                   | <b>596.9</b>                    |                   | <b>602.0</b>           |                   |

| <b>2008</b>        |              | <b>Electricity Production</b> |                   |                    |                   | <b>Related Water Production</b> |                   |                        |                   |
|--------------------|--------------|-------------------------------|-------------------|--------------------|-------------------|---------------------------------|-------------------|------------------------|-------------------|
| <b>System</b>      | <b>Month</b> | <b>Gross<br/>GWh</b>          | <b>%<br/>Year</b> | <b>Net<br/>GWh</b> | <b>%<br/>Year</b> | <b>Gross<br/>'000 m3</b>        | <b>%<br/>Year</b> | <b>Net<br/>'000 m3</b> | <b>%<br/>Year</b> |
| Rural Systems      | Jan-08       | 15.4                          | 4.4%              | 14.1               | 4.3%              | 61.7                            | 8.3%              | 60.9                   | 8.3%              |
| Rural Systems      | Feb-08       | 14.7                          | 4.2%              | 13.5               | 4.2%              | 54.1                            | 7.3%              | 53.4                   | 7.3%              |
| Rural Systems      | Mar-08       | 21.8                          | 6.2%              | 20.4               | 6.2%              | 62.4                            | 8.4%              | 61.5                   | 8.4%              |
| Rural Systems      | Apr-08       | 29.3                          | 8.4%              | 27.6               | 8.5%              | 60.3                            | 8.1%              | 59.7                   | 8.1%              |
| Rural Systems      | May-08       | 38.3                          | 11.0%             | 35.9               | 11.0%             | 66.5                            | 9.0%              | 65.7                   | 9.0%              |
| Rural Systems      | Jun-08       | 38.5                          | 11.0%             | 36.1               | 11.1%             | 57.7                            | 7.8%              | 56.9                   | 7.8%              |
| Rural Systems      | Jul-08       | 38.3                          | 11.0%             | 35.8               | 11.0%             | 51.7                            | 7.0%              | 50.8                   | 6.9%              |
| Rural Systems      | Aug-08       | 37.7                          | 10.8%             | 35.3               | 10.8%             | 57.7                            | 7.8%              | 57.0                   | 7.8%              |
| Rural Systems      | Sep-08       | 39.0                          | 11.2%             | 36.5               | 11.2%             | 66.6                            | 9.0%              | 65.9                   | 9.0%              |
| Rural Systems      | Oct-08       | 34.5                          | 9.9%              | 32.1               | 9.9%              | 71.5                            | 9.6%              | 71.0                   | 9.7%              |
| Rural Systems      | Nov-08       | 23.9                          | 6.8%              | 22.2               | 6.8%              | 65.5                            | 8.8%              | 64.7                   | 8.8%              |
| Rural Systems      | Dec-08       | 17.9                          | 5.1%              | 16.4               | 5.0%              | 66.9                            | 9.0%              | 65.6                   | 9.0%              |
| <b>2008 Totals</b> |              | <b>349.3</b>                  |                   | <b>325.8</b>       |                   | <b>742.7</b>                    |                   | <b>733.1</b>           |                   |

**Table 9 iii**

**Monthly Production by System: Salalah Power System 2007 and 2008**

| <b>2007</b>          |              | <b>Electricity Production</b> |                   |                    |                   | <b>Related Water Production</b> |                   |                        |                   |
|----------------------|--------------|-------------------------------|-------------------|--------------------|-------------------|---------------------------------|-------------------|------------------------|-------------------|
| <b>System</b>        | <b>Month</b> | <b>Gross<br/>GWh</b>          | <b>%<br/>Year</b> | <b>Net<br/>GWh</b> | <b>%<br/>Year</b> | <b>Gross<br/>'000 m3</b>        | <b>%<br/>Year</b> | <b>Net<br/>'000 m3</b> | <b>%<br/>Year</b> |
| Salalah Power System | Jan-07       | 79.1                          | 5.6%              | 77.9               | 5.6%              |                                 |                   |                        |                   |
| Salalah Power System | Feb-07       | 89.5                          | 6.4%              | 88.4               | 6.4%              |                                 |                   |                        |                   |
| Salalah Power System | Mar-07       | 106.5                         | 7.6%              | 105.2              | 7.6%              |                                 |                   |                        |                   |
| Salalah Power System | Apr-07       | 127.4                         | 9.1%              | 125.7              | 9.1%              |                                 |                   |                        |                   |
| Salalah Power System | May-07       | 152.2                         | 10.8%             | 149.6              | 10.8%             |                                 |                   |                        |                   |
| Salalah Power System | Jun-07       | 139.0                         | 9.9%              | 137.0              | 9.9%              |                                 |                   |                        |                   |
| Salalah Power System | Jul-07       | 132.2                         | 9.4%              | 130.6              | 9.4%              |                                 |                   |                        |                   |
| Salalah Power System | Aug-07       | 122.9                         | 8.7%              | 121.3              | 8.7%              |                                 |                   |                        |                   |
| Salalah Power System | Sep-07       | 121.8                         | 8.7%              | 120.3              | 8.7%              |                                 |                   |                        |                   |
| Salalah Power System | Oct-07       | 121.5                         | 8.6%              | 120.0              | 8.6%              |                                 |                   |                        |                   |
| Salalah Power System | Nov-07       | 112.8                         | 8.0%              | 111.3              | 8.0%              |                                 |                   |                        |                   |
| Salalah Power System | Dec-07       | 101.6                         | 7.2%              | 100.2              | 7.2%              |                                 |                   |                        |                   |
| <b>2007 Totals</b>   |              | <b>1,406.5</b>                |                   | <b>1,387.5</b>     |                   |                                 |                   |                        |                   |

| <b>2008</b>          |              | <b>Electricity Production</b> |                   |                    |                   | <b>Related Water Production</b> |                   |                        |                   |
|----------------------|--------------|-------------------------------|-------------------|--------------------|-------------------|---------------------------------|-------------------|------------------------|-------------------|
| <b>System</b>        | <b>Month</b> | <b>Gross<br/>GWh</b>          | <b>%<br/>Year</b> | <b>Net<br/>GWh</b> | <b>%<br/>Year</b> | <b>Gross<br/>'000 m3</b>        | <b>%<br/>Year</b> | <b>Net<br/>'000 m3</b> | <b>%<br/>Year</b> |
| Salalah Power System | Jan-08       | 95.5                          | 6.4%              | 94.2               | 6.4%              |                                 |                   |                        |                   |
| Salalah Power System | Feb-08       | 82.0                          | 5.5%              | 80.8               | 5.5%              |                                 |                   |                        |                   |
| Salalah Power System | Mar-08       | 111.8                         | 7.5%              | 110.2              | 7.5%              |                                 |                   |                        |                   |
| Salalah Power System | Apr-08       | 135.5                         | 9.1%              | 133.8              | 9.1%              |                                 |                   |                        |                   |
| Salalah Power System | May-08       | 159.3                         | 10.7%             | 157.3              | 10.7%             |                                 |                   |                        |                   |
| Salalah Power System | Jun-08       | 155.6                         | 10.5%             | 153.5              | 10.4%             |                                 |                   |                        |                   |
| Salalah Power System | Jul-08       | 137.4                         | 9.2%              | 135.6              | 9.2%              |                                 |                   |                        |                   |
| Salalah Power System | Aug-08       | 122.8                         | 8.2%              | 121.1              | 8.2%              |                                 |                   |                        |                   |
| Salalah Power System | Sep-08       | 141.1                         | 9.5%              | 139.4              | 9.5%              |                                 |                   |                        |                   |
| Salalah Power System | Oct-08       | 134.0                         | 9.0%              | 132.4              | 9.0%              |                                 |                   |                        |                   |
| Salalah Power System | Nov-08       | 115.6                         | 7.8%              | 114.1              | 7.8%              |                                 |                   |                        |                   |
| Salalah Power System | Dec-08       | 98.1                          | 6.6%              | 96.7               | 6.6%              |                                 |                   |                        |                   |
| <b>2008 Totals</b>   |              | <b>1,488.6</b>                |                   | <b>1,469.2</b>     |                   |                                 |                   |                        |                   |

**Table 10 i**

**Quarterly Production by System: 2006, 2007 & 2008**

| <i>System</i>      | <i>Period</i> | <i>Electricity Production</i> |               |                 |               | <i>Related Water Production</i> |               |                    |               |
|--------------------|---------------|-------------------------------|---------------|-----------------|---------------|---------------------------------|---------------|--------------------|---------------|
|                    |               | <i>Gross GWh</i>              | <i>% Year</i> | <i>Net GWh</i>  | <i>% Year</i> | <i>Gross '000 m3</i>            | <i>% Year</i> | <i>Net '000 m3</i> | <i>% Year</i> |
| MIS                | Qtr 1-06      | 1,731.7                       | 14.3%         | 1,653.0         | 14.0%         | 19,294.5                        | 23.0%         | 18,591.8           | 22.6%         |
| MIS                | Qtr 2-06      | 3,718.5                       | 30.7%         | 3,621.1         | 30.7%         | 21,890.4                        | 26.1%         | 21,574.3           | 26.3%         |
| MIS                | Qtr 3-06      | 4,126.0                       | 34.0%         | 4,036.9         | 34.3%         | 22,260.8                        | 26.6%         | 21,915.8           | 26.7%         |
| MIS                | Qtr 4-06      | 2,545.4                       | 21.0%         | 2,471.0         | 21.0%         | 20,355.4                        | 24.3%         | 20,022.4           | 24.4%         |
| <b>2006 Totals</b> |               | <b>12,121.5</b>               |               | <b>11,782.0</b> |               | <b>83,801.1</b>                 |               | <b>82,104.4</b>    |               |
| MIS                | Qtr 1-07      | 1,908.6                       | 14.8%         | 1,822.2         | 14.6%         | 23,859.1                        | 22.6%         | 19,157.0           | 22.7%         |
| MIS                | Qtr 2-07      | 3,941.1                       | 30.6%         | 3,832.9         | 30.8%         | 27,769.8                        | 26.3%         | 21,297.2           | 25.2%         |
| MIS                | Qtr 3-07      | 4,453.2                       | 34.6%         | 4,311.6         | 34.6%         | 29,449.6                        | 27.9%         | 22,752.1           | 27.0%         |
| MIS                | Qtr 4-07      | 2,579.5                       | 20.0%         | 2,490.1         | 20.0%         | 24,545.0                        | 23.2%         | 21,143.8           | 25.1%         |
| <b>2007 Totals</b> |               | <b>12,882.5</b>               |               | <b>12,456.7</b> |               | <b>105,623.5</b>                |               | <b>84,350.1</b>    |               |
| MIS                | Qtr 1-08      | 2,037.4                       | 14.3%         | 2,023.7         | 14.5%         | 23,171.9                        | 20.5%         | 21,472.9           | 22.1%         |
| MIS                | Qtr 2-08      | 4,369.9                       | 30.7%         | 4,321.3         | 31.0%         | 32,059.5                        | 28.3%         | 25,050.8           | 25.8%         |
| MIS                | Qtr 3-08      | 4,780.7                       | 33.6%         | 4,665.4         | 33.5%         | 29,969.9                        | 26.5%         | 24,855.9           | 25.6%         |
| MIS                | Qtr 4-08      | 3,023.7                       | 21.3%         | 2,915.0         | 20.9%         | 27,972.9                        | 24.7%         | 25,698.7           | 26.5%         |
| <b>2008 Totals</b> |               | <b>14,211.6</b>               |               | <b>13,925.4</b> |               | <b>113,174.1</b>                |               | <b>97,078.3</b>    |               |

**Table 10 ii**

**Quarterly Production by System: 2006, 2007 & 2008**

| <i>System</i>      | <i>Period</i> | <i>Electricity Production</i> |                   |                    |                   | <i>Related Water Production</i> |                   |                        |                   |
|--------------------|---------------|-------------------------------|-------------------|--------------------|-------------------|---------------------------------|-------------------|------------------------|-------------------|
|                    |               | <i>Gross<br/>GWh</i>          | <i>%<br/>Year</i> | <i>Net<br/>GWh</i> | <i>%<br/>Year</i> | <i>Gross<br/>'000 m3</i>        | <i>%<br/>Year</i> | <i>Net<br/>'000 m3</i> | <i>%<br/>Year</i> |
| Rural Systems      | Qtr 1-06      | 40.3                          | 14.8%             | 36.8               | 14.6%             | 993.5                           | 23.2%             | 991.2                  | 23.2%             |
| Rural Systems      | Qtr 2-06      | 81.3                          | 29.9%             | 75.6               | 30.0%             | 1,092.1                         | 25.5%             | 1,087.8                | 25.4%             |
| Rural Systems      | Qtr 3-06      | 89.1                          | 32.7%             | 83.0               | 32.9%             | 1,097.9                         | 25.6%             | 1,094.1                | 25.6%             |
| Rural Systems      | Qtr 4-06      | 61.6                          | 22.6%             | 57.1               | 22.6%             | 1,102.1                         | 25.7%             | 1,105.8                | 25.8%             |
| <b>2006 Totals</b> |               | <b>272.2</b>                  |                   | <b>252.5</b>       |                   | <b>4,285.6</b>                  |                   | <b>4,279.0</b>         |                   |
| Rural Systems      | Qtr 1-07      | 45.5                          | 14.7%             | 41.9               | 14.5%             | 154.1                           | 25.8%             | 150.0                  | 24.9%             |
| Rural Systems      | Qtr 2-07      | 94.2                          | 30.4%             | 88.3               | 30.5%             | 143.7                           | 24.1%             | 136.9                  | 22.7%             |
| Rural Systems      | Qtr 3-07      | 101.7                         | 32.9%             | 95.4               | 33.0%             | 133.9                           | 22.4%             | 137.5                  | 22.8%             |
| Rural Systems      | Qtr 4-07      | 68.0                          | 22.0%             | 63.6               | 22.0%             | 165.2                           | 27.7%             | 177.6                  | 29.5%             |
| <b>2007 Totals</b> |               | <b>309.4</b>                  |                   | <b>289.2</b>       |                   | <b>596.9</b>                    |                   | <b>602.0</b>           |                   |
| Rural Systems      | Qtr 1-08      | 51.9                          | 14.9%             | 48.0               | 14.7%             | 178.2                           | 24.0%             | 175.8                  | 24.0%             |
| Rural Systems      | Qtr 2-08      | 106.1                         | 30.4%             | 99.6               | 30.6%             | 184.5                           | 24.8%             | 182.3                  | 24.9%             |
| Rural Systems      | Qtr 3-08      | 115.0                         | 32.9%             | 107.6              | 33.0%             | 176.0                           | 23.7%             | 173.6                  | 23.7%             |
| Rural Systems      | Qtr 4-08      | 76.2                          | 21.8%             | 70.7               | 21.7%             | 203.9                           | 27.5%             | 201.4                  | 27.5%             |
| <b>2008 Totals</b> |               | <b>349.3</b>                  |                   | <b>325.8</b>       |                   | <b>742.7</b>                    |                   | <b>733.1</b>           |                   |

**Table 10 iii**

**Quarterly Production by System: 2006, 2007 & 2008**

| <i>System</i>        | <i>Period</i> | <i>Electricity Production</i> |                   |                    |                   | <i>Related Water Production</i> |                   |                        |                   |
|----------------------|---------------|-------------------------------|-------------------|--------------------|-------------------|---------------------------------|-------------------|------------------------|-------------------|
|                      |               | <i>Gross<br/>GWh</i>          | <i>%<br/>Year</i> | <i>Net<br/>GWh</i> | <i>%<br/>Year</i> | <i>Gross<br/>'000 m3</i>        | <i>%<br/>Year</i> | <i>Net<br/>'000 m3</i> | <i>%<br/>Year</i> |
| Salalah Power System | Qtr 1-06      | 246.5                         | 19.4%             | 243.2              | 19.4%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 2-06      | 397.4                         | 31.3%             | 391.1              | 31.2%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 3-06      | 320.0                         | 25.2%             | 315.5              | 25.2%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 4-06      | 306.6                         | 24.1%             | 302.5              | 24.2%             |                                 |                   |                        |                   |
| <b>2006 Totals</b>   |               | <b>1,270.5</b>                |                   | <b>1,252.3</b>     |                   |                                 |                   |                        |                   |
| Salalah Power System | Qtr 1-07      | 275.0                         | 19.6%             | 271.5              | 19.6%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 2-07      | 418.6                         | 29.8%             | 412.3              | 29.7%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 3-07      | 376.8                         | 26.8%             | 372.2              | 26.8%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 4-07      | 336.0                         | 23.9%             | 331.6              | 23.9%             |                                 |                   |                        |                   |
| <b>2007 Totals</b>   |               | <b>1,406.5</b>                |                   | <b>1,387.5</b>     |                   |                                 |                   |                        |                   |
| Salalah Power System | Qtr 1-08      | 289.2                         | 19.4%             | 285.3              | 19.4%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 2-08      | 450.4                         | 30.3%             | 444.5              | 30.3%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 3-08      | 401.3                         | 27.0%             | 396.2              | 27.0%             |                                 |                   |                        |                   |
| Salalah Power System | Qtr 4-08      | 347.7                         | 23.4%             | 343.2              | 23.4%             |                                 |                   |                        |                   |
| <b>2008 Totals</b>   |               | <b>1,488.6</b>                |                   | <b>1,469.2</b>     |                   |                                 |                   |                        |                   |



**Table 11**

**Technical and non-technical Losses by System: 2006, 2007 and 2008**

| GWh                         | Main Interconnected System |              |              | Rural Systems (note 2) |              |              | Salalah System |              |              |
|-----------------------------|----------------------------|--------------|--------------|------------------------|--------------|--------------|----------------|--------------|--------------|
|                             | 2006                       | 2007         | 2008         | 2006                   | 2007         | 2008         | 2006           | 2007         | 2008         |
| Sent out Generation:        | 11,753.1                   | 12,334.3     | 13,540.4     | 252.5                  | 289.2        | 325.8        | 1,224.3        | 1,373.0      | 1,467.1      |
| 'Other' Purchases (note 1): | 28.9                       | 122.5        | 385.0        | 25.3                   | 29.5         | 33.5         | 28.0           | 14.5         | 2.1          |
| GWh entering systems:       | 11,782.0                   | 12,456.7     | 13,925.4     | 277.8                  | 318.7        | 359.3        | 1,252.3        | 1,387.5      | 1,469.2      |
| GWh Supply to Customers:    | 9,219.8                    | 9,757.8      | 11,317.4     | 246.1                  | 273.0        | 308.8        | 1,029.4        | 1,162.4      | 1,221.2      |
| <b>Total Losses %</b>       | <b>21.7%</b>               | <b>21.7%</b> | <b>18.7%</b> | <b>-13.6%</b>          | <b>14.3%</b> | <b>14.1%</b> | <b>17.8%</b>   | <b>16.2%</b> | <b>16.9%</b> |
|                             |                            |              |              |                        |              |              |                |              | <b>4.1%</b>  |
|                             |                            |              |              |                        |              |              |                |              | <b>5.9%</b>  |
|                             |                            |              |              |                        |              |              |                |              | <b>5.1%</b>  |
|                             |                            |              |              |                        |              |              |                |              | <b>4.1%</b>  |

Note 1: Main Interconnected System Other purchases are PWP purchases from MIS connected entities  
Rural Systems Other purchases are purchases from PDO  
Salalah Other purchases are units purchased by PWP from RAEC for sale to DPC SAOG

Note 2: Total RAEC GWh Supplied to Customers in 2008 in Table 11 is 2,747 GWh lower than RAEC Supply reported in other tables. The 308.8 GWh figure was included in RAEC's 2008 SCRC statement and reflects an adjustment applied to monthly Supply at the Company level. RAEC was unable to allocate the adjustment across tariff categories or region.

**Table 12**

**RAEC Capacity, System Peak demands, Electricity and Water Production, and Fuel consumption by Region**

| Generating Capacity                 |             |             |            | Water Capacity |         | System Peak Demands, Production & Fuel Consumption |                  |           |          |                |               |           |         |              |            |                 |
|-------------------------------------|-------------|-------------|------------|----------------|---------|--|------------------|-----------|----------|----------------|---------------|-----------|---------|--------------|------------|-----------------|
| RSNum                               | Facility    | Type        | Start Year | Installed      |         | Num units  | Installed m3/day | Num units | @ Ref SC | System Peak kW | Demand margin | Gross MWh | Net MWh | Gross 000'm3 | Net 000'm3 | Diesel 000'Ltrs |
|                                     |             |             |            | kW             | kW      |  |                  |           |          |                |               |           |         |              |            |                 |
| Al Dahirah                          |             |             |            |                |         |  |                  |           |          |                |               |           |         |              |            |                 |
| 02/020                              | Masrooq     | Electricity | 1994       | 637            | 509     | 6  |                  | 0         |          | 299            | 41.3%         | 516       | 476     | 0            | 0          | 210             |
| Totals for 1 Systems in Al Dahirah  |             |             |            | 637            | 509     | 6  |                  | 0         |          |                |               | 516       | 476     | 0            | 0          | 210             |
| Al Sharqiya                         |             |             |            |                |         |  |                  |           |          |                |               |           |         |              |            |                 |
| 02/019                              | Masirah     | Cogen       | 1976       | 10,597         | 9,200   | 10   | 1,900            | 5         | 500C     | 7,500          | 18.5%         | 32,573    | 25,460  | 618          | 613        | 8,930           |
| 04/001                              | Al Kamil    | Electricity | 1980       | 2,200          | 1,760   | 3  | 0                |           | 500C     |                |               | 0         | 0       | 0            | 0          | 0               |
| 04/002                              | BBB Hassan  | Electricity | 1980       | 20,836         | 16,668  | 4  | 0                |           | 500C     |                |               | 0         | 0       | 0            | 0          | 0               |
| 04/003                              | Mudhaibi    | Electricity | 1980       | 24,000         | 19,277  | 7  | 0                |           | 500C     |                |               | 0         | 0       | 0            | 0          | 0               |
| 04/004                              | Mudhairib   | Electricity | 1980       | 35,938         | 28,750  | 12   | 0                |           | 500C     |                |               | 0         | 0       | 0            | 0          | 0               |
| 04/005                              | Sur 1       | Electricity | 1980       | 49,200         | 40,900  | 14   | 0                |           | 500C     |                |               | 0         | 0       | 0            | 0          | 0               |
| Totals for 6 Systems in Al Sharqiya |             |             |            | 142,771        | 116,555 | 50   | 1,900            | 5         |          |                |               | 32,573    | 25,460  | 618          | 613        | 8,930           |
| Al Wusta                            |             |             |            |                |         |  |                  |           |          |                |               |           |         |              |            |                 |
| 02/001                              | AbuMudabi   | Cogen       | 1985       | 761            | 608     | 7  | 100              | 2         | 500C     | 350            | 42.4%         | 491       | 260     | 25           | 24         | 180             |
| 02/027                              | Sawgrah     | Cogen       | 1998       | 724            | 579     | 3  | 100              | 1         | 500C     | 160            | 72.4%         | 9         | 7       | 32           | 31         | 5               |
| 02/004                              | Al Kahal    | Electricity | 1999       | 2,378          | 1,902   | 4  | 0                |           | 500C     | 950            | 50.1%         | 3,517     | 3,434   | 0            | 0          | 1,265           |
| 02/005                              | Al Khaluf   | Electricity | 2007       | 2,000          | 1,600   | 2  | 0                |           | 500C     | 322            | 79.9%         | 1,021     | 903     | 0            | 0          | 488             |
| 02/006                              | Al Khuaima  | Electricity | 2004       | 1,168          | 936     | 4  | 0                |           | 500C     | 750            | 19.9%         | 3,729     | 3,613   | 0            | 0          | 1,220           |
| 02/007                              | Al Lakbi    | Electricity | 1999       | 1,772          | 1,400   | 5  | 0                |           | 500C     | 1,245          | 11.1%         | 5,808     | 5,474   | 0            | 0          | 2,065           |
| 02/008                              | Alajaiz     | Electricity | 2006       | 1,130          | 1,000   | 4  | 0                |           | 500C     | 410            | 59.0%         | 1,258     | 1,082   | 0            | 0          | 639             |
| 02/010                              | AlNajdah    | Electricity | 2007       | 2,200          | 1,800   | 3  | 0                |           | 500C     | 255            | 85.8%         | 461       | 392     | 0            | 0          | 198             |
| 02/012                              | AlZhaiah    | Electricity | 2003       | 400            | 320     | 2  | 0                |           | 500C     | 242            | 24.4%         | 791       | 755     | 0            | 0          | 297             |
| 02/016                              | Hij         | Electricity | 1999       | 10,500         | 8,800   | 7  | 0                |           | 500C     | 3,425          | 61.1%         | 15,007    | 14,863  | 0            | 0          | 5,203           |
| 02/017                              | Hitam       | Electricity | 2007       | 1,330          | 1,064   | 5  | 0                |           | 500C     | 240            | 77.4%         | 874       | 693     | 0            | 0          | 535             |
| 02/025                              | Ras Madraka | Electricity | 2000       | 1,071          | 863     | 5  | 0                |           | 500C     | 845            | 2.1%          | 3,432     | 3,373   | 0            | 0          | 1,277           |
| 02/030                              | Surab       | Electricity | 2006       | 2,200          | 1,800   | 3  | 0                |           | 500C     | 385            | 78.6%         | 1,072     | 975     | 0            | 0          | 411             |
| 02/031                              | Al Duqm     | Electricity | 1999       | 1,331          | 1,060   | 5  | 0                |           | 500C     | 1,420          | -34.0%        | 5,902     | 5,830   | 0            | 0          | 2,070           |
| Totals for 14 Systems in Al Wusta   |             |             |            | 28,965         | 23,732  | 59   | 200              | 3         |          |                |               | 43,372    | 41,655  | 57           | 55         | 15,853          |

## Table 12

### RAEC Capacity, System Peak demands, Electricity and Water Production, and Fuel consumption by Region

2008

| 2008                            | Generating Capacity |             |      | Water Capacity |           |     | System Peak Demands, Production & Fuel Consumption |                  |           |       |       |                |               |           |         |              |            |                 |  |
|---------------------------------|---------------------|-------------|------|----------------|-----------|-----|--|------------------|-----------|-------|-------|----------------|---------------|-----------|---------|--------------|------------|-----------------|--|
|                                 | RSNum               | Facility    | Type | Start Year     | Installed |     | Num units  | Installed m3/day | Num units | @     |       | System Peak kW | Demand margin | Gross MWh | Net MWh | Gross 000'm3 | Net 000'm3 | Diesel 000'Ltrs |  |
|                                 |                     |             |      |                | kW        | kW  |  |                  |           | Ref   | SC    |                |               |           |         |              |            |                 |  |
| Dhofar                          |                     |             |      |                |           |     |  |                  |           |       |       |                |               |           |         |              |            |                 |  |
| 01/001                          | Al Halaniyat        | Cogen       | 1987 | 544            | 435       | 4   | 136  | 2                | 500C      | 320   | 26.4% | 1,303          | 922           | 22        | 22      | 422          |            |                 |  |
| 01/002                          | Al Mathfa           | Electricity | 2002 | 340            | 272       | 3   | 0  |                  | 500C      | 60    | 77.9% | 129            | 123           | 0         | 0       | 70           |            |                 |  |
| 01/005                          | Ayboot (1)          | Electricity | 2002 | 460            | 368       | 3   | 0  |                  | 500C      | 109   | 70.4% | 372            | 360           | 0         | 0       | 197          |            |                 |  |
| 01/006                          | Ayboot (2)          | Electricity | 2006 | 540            | 384       | 3   | 0  |                  | 500C      | 190   | 50.5% | 394            | 371           | 0         | 0       | 200          |            |                 |  |
| 01/007                          | Ayun                | Electricity | 2000 | 715            | 572       | 3   | 0  |                  | 500C      | 180   | 68.5% | 296            | 285           | 0         | 0       | 116          |            |                 |  |
| 01/008                          | Barbazum            | Electricity | 2000 | 888            | 710       | 3   | 0  |                  | 500C      | 270   | 62.0% | 1,073          | 1,060         | 0         | 0       | 389          |            |                 |  |
| 01/010                          | Dalkut A            | Electricity | 1992 | 1,480          | 1,184     | 4   | 0  |                  | 500C      | 880   | 25.7% | 2,323          | 2,318         | 0         | 0       | 741          |            |                 |  |
| 01/011                          | Dalkut B            | Electricity | 1997 | 3,128          | 2,502     | 5   | 0  |                  | 500C      | 1,630 | 34.9% | 5,467          | 5,445         | 0         | 0       | 1,784        |            |                 |  |
| 01/012                          | Dhahabun            | Electricity | 2000 | 879            | 703       | 3   | 0  |                  | 500C      | 460   | 34.6% | 1,352          | 1,343         | 0         | 0       | 462          |            |                 |  |
| 01/014                          | Fatkhat             | Electricity | 2002 | 426            | 341       | 3   | 0  |                  | 500C      | 115   | 66.3% | 350            | 343           | 0         | 0       | 137          |            |                 |  |
| 01/015                          | Hasik               | Electricity | 1992 | 1,196          | 957       | 3   | 0  |                  | 500C      | 790   | 17.5% | 3,372          | 3,353         | 0         | 0       | 1,044        |            |                 |  |
| 01/016                          | Hirweeb             | Electricity | 2001 | 775            | 620       | 3   | 0  |                  | 500C      | 335   | 46.0% | 1,069          | 1,051         | 0         | 0       | 444          |            |                 |  |
| 01/017                          | Horaat              | Electricity | 2002 | 468            | 374       | 3   | 0  |                  | 500C      | 173   | 53.7% | 438            | 420           | 0         | 0       | 219          |            |                 |  |
| 01/019                          | Mahwice             | Electricity | 2002 | 372            | 298       | 3   | 0  |                  | 500C      | 119   | 60.1% | 316            | 307           | 0         | 0       | 145          |            |                 |  |
| 01/020                          | Maqshan             | Electricity | 2001 | 1,290          | 1,032     | 4   | 0  |                  | 500C      | 400   | 61.2% | 1,411          | 1,369         | 0         | 0       | 462          |            |                 |  |
| 01/021                          | Mazyunah            | Electricity | 2000 | 2,408          | 1,926     | 5   | 0  |                  | 500C      | 1,720 | 10.7% | 7,329          | 7,271         | 0         | 0       | 2,277        |            |                 |  |
| 01/023                          | Mitan               | Electricity | 2001 | 887            | 676       | 3   | 0  |                  | 500C      | 530   | 21.6% | 1,922          | 1,903         | 0         | 0       | 718          |            |                 |  |
| 01/024                          | Mothorah            | Electricity | 2006 | 440            | 352       | 2   | 0  |                  | 500C      | 161   | 54.3% | 447            | 436           | 0         | 0       | 205          |            |                 |  |
| 01/025                          | Mudhai              | Electricity | 1993 | 1,084          | 867       | 4   | 0  |                  | 500C      | 557   | 35.8% | 1,695          | 1,677         | 0         | 0       | 823          |            |                 |  |
| 01/026                          | Rabkut              | Electricity | 2000 | 720            | 576       | 3   | 0  |                  | 500C      | 250   | 56.6% | 738            | 725           | 0         | 0       | 255          |            |                 |  |
| 01/027                          | Raysut A            | Electricity | 1983 | 36,000         | 30,000    | 6   | 0  |                  | 500C      |       |       | 1,210          | 1,101         | 0         | 0       | 329          |            |                 |  |
| 01/028                          | Raysut B            | Electricity | 1988 | 53,000         | 45,000    | 8   | 0  |                  | 500C      |       |       | 1,091          | 1,001         | 0         | 0       | 311          |            |                 |  |
| 01/032                          | Saih Alkirat        | Electricity | 2006 | 8,000          | 6,400     | 8   | 0  |                  | 500C      | 4,580 | 28.4% | 23,458         | 23,432        | 0         | 0       | 6,002        |            |                 |  |
| 01/035                          | Shahb Asayb         | Electricity | 2000 | 3,569          | 2,414     | 5   | 0  |                  | 500C      | 2,260 | 6.4%  | 8,659          | 8,566         | 0         | 0       | 2,683        |            |                 |  |
| 01/037                          | Sharbatat           | Electricity | 1998 | 2,728          | 2,182     | 5   | 0  |                  | 500C      | 620   | 71.6% | 2,857          | 2,836         | 0         | 0       | 981          |            |                 |  |
| 01/038                          | Shasir              | Electricity | 2000 | 426            | 341       | 4   | 0  |                  | 500C      |       |       | 0              | 0             | 0         | 0       | 0            |            |                 |  |
| 01/040                          | Tushnat             | Electricity | 2001 | 850            | 680       | 3   | 0  |                  | 500C      | 175   | 74.3% | 816            | 797           | 0         | 0       | 329          |            |                 |  |
| Totals for 27 Systems in Dhofar |                     |             |      | 123,613        | 102,166   | 106 | 136  | 2                |           |       |       | 69,886         | 68,813        | 22        | 22      | 21,745       |            |                 |  |

## Table 12

### RAEC Capacity, System Peak demands, Electricity and Water Production, and Fuel consumption by Region

2008

| 2008                                  | Generating Capacity |             |      | Water Capacity |              |            | System Peak Demands, Production & Fuel Consumption |                  |           |          |                |               |           |         |              |            |                 |
|---------------------------------------|---------------------|-------------|------|----------------|--------------|------------|--|------------------|-----------|----------|----------------|---------------|-----------|---------|--------------|------------|-----------------|
|                                       | RSNum               | Facility    | Type | Start Year     | Installed kW | Derated kW | Num units  | Installed m3/day | Num units | @ Ref SC | System Peak kW | Demand margin | Gross MWh | Net MWh | Gross 000'm3 | Net 000'm3 | Diesel 000'Ltrs |
| Musandam                              |                     |             |      |                |              |            |  |                  |           |          |                |               |           |         |              |            |                 |
| 03/006                                | Kumzar              | Cogen       | 1984 | 936            | 800          | 2          | 250  | 2                | 500C      | 840      | -5.0%          | 851           | 442       | 45      | 43           | 315        |                 |
| 03/001                                | Al Rawda            | Electricity | 1996 | 275            | 220          | 3          | 0  |                  | 500C      | 135      | 38.6%          | 383           | 343       | 0       | 0            | 184        |                 |
| 03/002                                | Dibba               | Electricity | 1978 | 17,702         | 14,161       | 8          | 0  |                  | 500C      | 11,200   | 20.9%          | 53,053        | 49,341    | 0       | 0            | 14,902     |                 |
| 03/004                                | HB Hameed           | Electricity | 1994 | 100            | 80           | 2          | 0  |                  | 500C      | 55       | 31.3%          | 208           | 159       | 0       | 0            | 119        |                 |
| 03/005                                | Khasab              | Electricity | 1982 | 33,500         | 29,000       | 9          | 0  |                  | 500C      | 30,000   | -3.4%          | 135,574       | 126,780   | 0       | 0            | 36,331     |                 |
| 03/007                                | Madha               | Electricity | 1982 | 7,516          | 6,100        | 7          | 0  |                  | 500C      | 3,420    | 43.9%          | 15,151        | 14,472    | 0       | 0            | 4,248      |                 |
| Totals for 6 Systems in Musandam      |                     |             |      | 60,029         | 50,361       | 31         | 250  | 2                |           |          |                | 205,219       | 191,537   | 45      | 43           | 56,099     |                 |
| Totals for 54 RAEC Production Systems |                     |             |      |                |              |            |  |                  |           |          |                |               |           |         |              |            |                 |
|                                       |                     |             |      | 356,015        | 293,323      | 252        | 2,486  | 12               |           |          |                | 351,566       | 327,941   | 743     | 733          | 102,837    |                 |

### 2008 Regional Summary

|   | Generating Capacity |                |            | Water Capacity   |           |  | Production & Fuel Consumption |                |              |            |                 |  |
|---|---------------------|----------------|------------|------------------|-----------|--|-------------------------------|----------------|--------------|------------|-----------------|--|
|   | Installed kW        | Derated kW     | Num units  | Installed m3/day | Num units |  | Gross MWh                     | Net MWh        | Gross 000'm3 | Net 000'm3 | Diesel 000'ltrs |  |
| Totals for 1 RAEC System in Al Dahirah      | 637                 | 509            | 6          | 0                |           |  | 516                           | 476            | 0            | 0          | 210             |  |
| Totals for 6 RAEC Systems in Al Sharqiya    | 142,771             | 116,555        | 50         | 1,900            | 5         |  | 32,573                        | 25,460         | 618          | 613        | 8,930           |  |
| Totals for 14 RAEC Systems in Al Wusta      | 28,965              | 23,732         | 59         | 200              | 3         |  | 43,372                        | 41,655         | 57           | 55         | 15,853          |  |
| Totals for 27 RAEC Systems in Dhofar        | 123,613             | 102,166        | 106        | 136              | 2         |  | 69,886                        | 68,813         | 22           | 22         | 21,745          |  |
| Totals for 6 RAEC Systems in Musandam       | 60,029              | 50,361         | 31         | 250              | 2         |  | 205,219                       | 191,537        | 45           | 259        | 56,099          |  |
| <b>Totals for 54 RAEC Production System</b> | <b>356,015</b>      | <b>293,323</b> | <b>252</b> | <b>2,486</b>     | <b>12</b> |  | <b>351,566</b>                | <b>327,941</b> | <b>743</b>   | <b>733</b> | <b>102,837</b>  |  |

## ANNEX D: ELECTRICITY SUBSIDY CALCULATIONS

### Annex D - A: 2008 MIS Subsidy Summary

#### Maximum Allowed Revenues

|            | 2008 Outturn |            |            |             | 2007 Outturn |  | Variance |
|------------|--------------|------------|------------|-------------|--------------|--|----------|
|            | Muscat       | Majan      | Mazoon     | Total       | Total        |  |          |
| PC         | 73,261,815   | 36,346,416 | 49,074,515 | 158,682,747 | 132,514,628  |  | 20%      |
| C&UoFS     | 13,642,470   | 7,121,789  | 11,426,807 | 32,191,066  | 26,810,443   |  | 20%      |
| MANCSR     | 23,733,960   | 19,438,422 | 27,423,194 | 70,595,576  | 65,353,100   |  | 8%       |
| LF         | 158,197      | 158,197    | 158,197    | 474,590     | 399,864      |  | 19%      |
| K          | 12,184,055   | 6,331,755  | 525,992    | 19,041,803  | 10,471,371   |  | 82%      |
| MAR (2008) | 98,612,386   | 56,733,068 | 87,556,721 | 242,902,175 | 214,606,664  |  | 13%      |

#### Actual Regulated Revenues

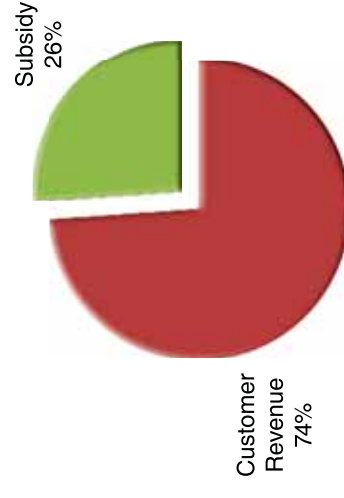
|                                    | Muscat      | Majan      | Mazoon     | Total       | Total       | Variance |
|------------------------------------|-------------|------------|------------|-------------|-------------|----------|
| Subsidy                            | 10,069,237  | 18,139,508 | 43,472,409 | 71,681,154  | 79,400,000  | -10%     |
| Permitted Tariff (& other) Revenue | 94,588,361  | 39,657,331 | 45,591,400 | 179,837,092 | 153,889,570 | 17%      |
| ARR (2008)                         | 104,657,598 | 57,796,839 | 89,063,809 | 251,518,246 | 233,289,570 | 8%       |
| Outturn Subsidy Requirement        | 4,024,026   | 17,075,738 | 41,965,320 | 63,065,083  |             |          |

#### 2008 Economic Cost

| (baiza/kWh)      | Muscat | Majan | Mazoon | Total | Total | Variance |
|------------------|--------|-------|--------|-------|-------|----------|
| Economic Cost    | 18.2   | 21.4  | 27.0   | 21.5  | 21.9  | -2%      |
| Subsidy          | 1.9    | 6.8   | 13.4   | 5.6   | 6.2   | -10%     |
| Customer Revenue | 17.4   | 15.0  | 14.1   | 15.9  | 15.7  | 1%       |

Source: Company returns, Authority Estimates

### 2008 MIS Revenue & Subsidy



## Annex D - B: 2009 MIS Subsidy Estimate

### Maximum Allowed Revenues

|                   | Muscat      | Majan      | Mazoon      | Total       | 2009 Estimate | 2008 Outturn | Variance |
|-------------------|-------------|------------|-------------|-------------|---------------|--------------|----------|
| PC                | 83,121,743  | 46,886,411 | 52,651,331  | 182,659,485 |               | 158,682,747  | 15%      |
| C                 | 1,431,063   | 882,704    | 1,075,832   | 3,389,599   |               | 32,191,066   | 29%      |
| UofS              | 16,820,000  | 8,680,000  | 12,740,000  | 38,240,000  |               |              |          |
| DB (Distribution) | 26,626,933  | 22,653,819 | 31,137,601  | 80,418,354  |               | 70,595,576   | 33%      |
| SB (Supply)       | 5,321,611   | 3,248,810  | 5,231,537   | 13,801,958  |               |              |          |
| LF                | 260,682     | 260,682    | 260,682     | 782,046     |               | 474,590      | 65%      |
| K                 | 6,161,642   | 1,084,259  | 1,536,117   | 8,782,018   |               | 19,041,803   | -54%     |
| MAR (2009)        | 127,420,390 | 81,528,168 | 101,560,866 | 310,509,423 |               | 242,902,175  | 28%      |

### Actual Regulated Revenues

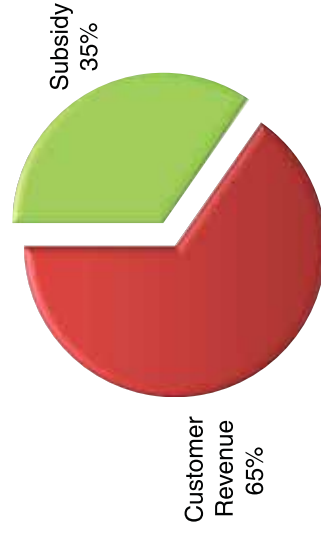
|                                    | Muscat      | Majan      | Mazoon      | Total       | Variance |
|------------------------------------|-------------|------------|-------------|-------------|----------|
| Subsidy                            | 25,401,665  | 31,199,248 | 50,891,054  | 107,491,966 | 50%      |
| Permitted Tariff (& other) Revenue | 102,018,726 | 50,328,920 | 50,669,812  | 203,017,457 | 13%      |
| ARR (2009)                         | 127,420,390 | 81,528,168 | 101,560,866 | 310,509,423 | 23%      |

### 2008 Economic Cost (bz/kWh)

|                  | Muscat | Majan | Mazoon | Total | Variance |
|------------------|--------|-------|--------|-------|----------|
| Economic Cost    | 21.9   | 25.1  | 28.5   | 24.6  | 14%      |
| Subsidy          | 4.4    | 9.6   | 14.3   | 8.5   | 34%      |
| Customer Revenue | 17.5   | 15.5  | 14.2   | 16.1  | 1%       |

Source: Company returns, Authority Estimates

### 2009 MIS Revenue & Subsidy Estimate



Annex D - C: 2008 RAEC Subsidy (including revision)

Annex A

| Item                      | RO         |
|---------------------------|------------|
| Total Direct Costs        | 20,252,433 |
| Total Admin & Other Costs | 4,545,838  |
| Total Operating Costs     | 24,798,271 |

Generation

|                         |            |
|-------------------------|------------|
| Opening NBV 31 Dec 2007 | 10,635,873 |
| Closing NBV 31 Dec 2008 | 10,903,371 |
| Return at 8%            | 861,570    |

Distribution

|                         |            |
|-------------------------|------------|
| Opening NBV 31 Dec 2007 | 20,124,820 |
| Closing NBV 31 Dec 2008 | 22,802,175 |
| Return at 7.5%          | 1,620,494  |

Supply

|                         |            |
|-------------------------|------------|
| Opening NBV 31 Dec 2007 | 37,390     |
| Closing NBV 31 Dec 2008 | 45,361     |
| Return at 7.5%          | 3,124      |
| Total Return            | 2,485,188  |
| Depreciation            | 1,840,809  |
| Total Economic Costs    | 29,124,267 |

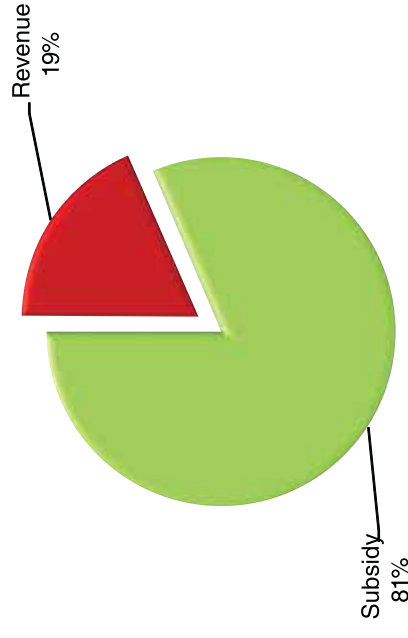
|                           |           |
|---------------------------|-----------|
| Permitted Tariff Revenue  | 4,571,929 |
| Other Revenue             | 816,897   |
| Revenue Excluding Subsidy | 5,388,826 |

|  |            |
|--|------------|
| 2008 Outturn Subsidy <sup>1</sup>          | 23,735,441 |
| 2008 Subsidy Provision <sup>2</sup>        | 19,937,077 |
| Less 2007 under-recovery <sup>2</sup>      | 462,711    |
| Additional Subsidy to be provided for 2008 | 4,261,075  |

<sup>1</sup> Authority calculations

<sup>2</sup> Authority letter to MoF dated 1 July 2008

2008 RAEC Revenue & Subsidy





Project Name: 2009 Forward Work Programme

ANNEX E: 2009 FORWARD WORK PROGRAMME



|               |                    |
|---------------|--------------------|
| Project Lead: | Executive Director |
| Today's Date: | 1-Jul-09           |
| Start Date:   | 1-Jan-09           |
| End Date:     | 31-Dec-09          |

|                |  |
|----------------|--|
| Key            |  |
| Planned work   |  |
| Completed work |  |

| WBS    | Tasks   | Task Lead                    | Start     | End       | Days | Jan-09 | Feb-09 | Mar-09 | Apr-09 | May-09 | Jun-09 | Jul-09 | Aug-09 | Sep-09 | Oct-09 | Nov-09 | Dec-09 |
|--------|---|------------------------------|-----------|-----------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1      | General Policy                                      | Lead Section                 | 01-Jan-09 | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 1   | Renewable Energy Seminar                            | Office of Executive Director | 1-Jan-09  | 1-May-09  | 120  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 2   | Energy Efficiency Seminar                           | Office of Executive Director | 1-Jan-09  | 1-May-09  | 120  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 3   | Renewable Energy Pilot Projects                     | Technical Directorate        | 1-Jan-09  | 1-Jul-09  | 181  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 4   | Electricity Undergrounding Regulations              | Technical Directorate        | 1-Jan-09  | 1-Apr-09  | 90   |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 5   | Electricity Supply Regulations (Incident Reporting) | Licensing and Legal Affairs  | 1-Jan-09  | 1-Jun-09  | 151  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 6   | GONU Assessment (follow up)                         | Office of Executive Director | 1-Feb-09  | 1-Dec-09  | 303  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 7   | Emergency Procedures - Implementation               | Technical Directorate        | 1-Jan-09  | 1-Jul-09  | 181  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 8   | ERWS Employment Survey (extended survey)            | Economics and Finance        | 1-Jul-09  | 1-Dec-09  | 152  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 9   | Customer Awareness Programs                         | Customer Affairs             | 1-Feb-09  | 1-Dec-09  | 302  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 10  | Market Research (surveys & interviews)              | Customer Affairs             | 1-Jul-09  | 31-Dec-09 | 182  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 11  | Public Consultations                                | Office of Executive Director | 1-Jan-09  | 1-Oct-09  | 272  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 12  | Corporate Governance Audits                         | Office of Executive Director | 1-Jan-09  | 1-Jul-09  | 182  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 13  | Legal Seminar - wider issues                        | Licensing and Legal Affairs  | 1-Jul-09  | 1-Dec-09  | 152  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 14  | Implementation of New Organisation Structure        | Office of Executive Director | 1-Jan-09  | 1-Dec-09  | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| GP 15  | Coordination  | Office of Executive Director | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| 2      | Generation & Generation/Desalination                | Lead Section                 | 01-Jan-09 | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| G-GD 1 | Licence & Licence Exemption Applications            | Licensing and Legal Affairs  | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| 3      | Power & Water Procurement                           | Lead Section                 | 01-Jan-09 | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| PWP 1  | Price control - further review                      | Economics and Finance        | 1-Apr-09  | 1-Nov-09  | 215  |        |        |        |        |        |        |        |        |        |        |        |        |
| PWP 2  | New IPP/IWPP Approvals (Competition Strategy)       | Licensing and Legal Affairs  | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| PWP 3  | Salalah Restructuring                               | Economics and Finance        | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| 4      | Transmission & Dispatch                             | Lead Section                 | 01-Jan-09 | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| T&D 1  | OETC Privatisation                                  | Office of Executive Director | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| T&D 2  | Environmental Audits                                | Technical Directorate        | 1-Apr-09  | 1-Oct-09  | 184  |        |        |        |        |        |        |        |        |        |        |        |        |
| T&D 3  | Price Control audit                                 | Economics and Finance        | 1-Jun-09  | 1-Nov-09  | 153  |        |        |        |        |        |        |        |        |        |        |        |        |
| T&D 4  | Regulatory Accounting Guidelines                    | Economics and Finance        | 1-Jan-09  | 1-Jul-09  | 180  |        |        |        |        |        |        |        |        |        |        |        |        |
| 5      | Distribution & Supply                               | Lead Section                 | 01-Jan-09 | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| D&S 1  | Price control audits                                | Economics and Finance        | 1-Jun-09  | 1-Nov-09  | 153  |        |        |        |        |        |        |        |        |        |        |        |        |
| D&S 2  | HSE (MEDC)  | Technical Directorate        | 1-Jan-09  | 1-Jul-09  | 181  |        |        |        |        |        |        |        |        |        |        |        |        |
| D&S 3  | Environmental Audits                                | Technical Directorate        | 1-Apr-09  | 1-Oct-09  | 183  |        |        |        |        |        |        |        |        |        |        |        |        |
| D&S 4  | Audit of Supply & Connection Applications           | Customer Affairs             | 1-Apr-09  | 1-Oct-09  | 183  |        |        |        |        |        |        |        |        |        |        |        |        |
| D&S 5  | Regulatory Accounting Guidelines                    | Economics and Finance        | 1-Jan-09  | 1-Jul-09  | 181  |        |        |        |        |        |        |        |        |        |        |        |        |
| D&S 6  | Digital Metering - implementaiton                   | Technical Directorate        | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| 6      | Rural Areas Electricity Company SAOC                | Lead Section                 | 01-Jan-09 | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| RAEC 1 | HSE   | Technical Directorate        | 1-Jan-09  | 1-Jul-09  | 181  |        |        |        |        |        |        |        |        |        |        |        |        |
| RAEC 2 | Digital Metering - implementaiton                   | Technical Directorate        | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| RAEC 3 | Renewable Energy Pilot projects                     | Technical Directorate        | 1-Jan-09  | 1-Jul-09  | 181  |        |        |        |        |        |        |        |        |        |        |        |        |
| RAEC 4 | Audit of Supply & Connection Applications           | Customer Affairs             | 1-Apr-09  | 1-Oct-09  | 183  |        |        |        |        |        |        |        |        |        |        |        |        |
| RAEC 5 | Regulatory Accounting Guidelines                    | Economics and Finance        | 1-Jan-09  | 1-Jul-09  | 181  |        |        |        |        |        |        |        |        |        |        |        |        |
| 7      | Import & Export of Electricity                      | Lead Section                 | 01-Jan-09 | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| I&E 1  | Licensing & consents                                | Licensing and Legal Affairs  | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |
| I&E 2  | Contracts & procedures                              | Licensing and Legal Affairs  | 1-Jan-09  | 31-Dec-09 | 365  |        |        |        |        |        |        |        |        |        |        |        |        |