

OMA
315.35
GDO
REP. No. 9

National Statistical Department

هيئة التنمية الم
DEVELOPMENT ORGANIZATION

دائرة الاحصاءات الوطنية



Number :

الرقم

Date :

التاريخ

REPORT NO: 9

Dated : April 1, 1973.

Analysis of the Power Statistics relating to

Government Power Corporation, Muscat

Of

The Sultanate of Oman

For

The Period 1969 to 1972

(In Arabic and English)

A.I. DEV(6)

REPORT NO. 9

Dated : 1/4/1973.

Analysis of the Power Statistics relating to Government
Power Corporation, Muscat for the period 1969 - 1972.

INTRODUCTION

The Government Power Corporation which looks after the supply of electric power to the twin towns of Muscat and Mutrah was requested to supply information about Power Statistics in a proforma designed in the National Statistical Department. The information received is shown in Appendix I and II. In addition to the power generated by the Power Corporation, electricity is generated at Salalah and by the P.D.(O) authorities for their own use. Moreover there are quite a few generating sets operating throughout Oman which produce electric power. Information about these categories is being collected separately. Thus, the following gives the picture for Government Power Corporation only.

Installed and Generated Capacity

2. The installed capacity with the Power Corporation was 3 megawatts in 1969. It remained stationary during 1970 and 1971. During 1972, there was a sharp increase in the capacity and by the end of 1972 the capacity had increased to 12 megawatts. (an increase of 300 percent). The information about units generated and sold during various years is given below:

...../2.

Dated: 1/1/73

Analysis of the Power Situation relating to Government
Power Corporation, Power for the period 1969 - 1972

INTRODUCTION

The Government Power Corporation which looks after the supply of electric power to the twin towns of Haridwar and Roorkee was requested to supply information about power situation in a conference organized in the National Statistical Department. The information received is shown in Appendix I and II. In addition to the data generated by the Power Corporation, electricity is generated at Rajind and by the P.D.O. (S) authorities for their own use. However there are also a few generating sets operating throughout Haridwar which produce electric power. Information about these sets is being collected separately. Thus, the following data are the figures for Government Power Corporation only.

Installed and Proposed Capacity

1. The installed capacity with the Power Corporation was 2 megawatts in 1969. It consisted of stations during 1970 and 1971. During 1972 there was a sharp increase in the capacity and in the end of 1972 the capacity had increased to 23 megawatts. (An increase of 200 percent). The information about units generated and sold during various years is given below:

Table 1 : Units generated and units sold by Power

	<u>Corporation</u>			
	1969	1970	1971	1972
1. Units generated	6380	8065	11961	22504
2. Units sold	5323	6825	10234	19351
3. Unit sold expressed as percent of units generated.	83.4	84.6	85.5	81.5

Service lines installed

3. The number of service lines installed for the supply of electricity to the consumers during various years is shown below:

Table 2 : Number of service lines installed by Power

<u>Year</u>	<u>Corporation</u>	
	<u>Number of service lines installed</u>	<u>Percentage increase over previous year</u>
At take over	1382	
1969	238	
1970	344	44.5
1971	577	67.7
1972	995	72.4

It may be observed there has been an major increase in the installation of service lines during this period particularly during the last two years.

Cost of generation of electricity

4. The average per unit cost of generation of electricity over various years is given below:

Table 3 : Average per unit cost of generation of electricity

<u>Year</u>	<u>Cost per unit generated (in baizas)</u>	<u>Reduction in cost of generation over previous year's cost (percent)</u>
1969	27	
1970	25	7.4
1971	16	36.0
1972	15	6.2

Thus over a period of 3 years the average per unit cost of generation has fallen from 27 baizas to 15 baizas - decrease of 44.4 percent.

Expenditure and Revenue.

5. The information about the expenditure and revenue of the Power Corporation for the period 1969 to 1972 is given below:

Table 4 : Expenditure & Revenue of Power Corporation

(In thousand Rial Omani)

<u>Year</u>	<u>Expenditure</u>	<u>Revenue</u>	<u>Profit (+) Loss (-)</u>
1969	173.71	146.43	(-) 27.28
1970	201.48	182.54	(-) 18.94
1971	189.31	268.24	(+) 78.93
1972	326.97	460.31	(+) 133.34

Table 2 : Units generated and units sold by Power Corporation

<u>Year</u>	<u>Units generated</u>	<u>Units sold</u>
1969	1000	950
1970	1050	1000
1971	1100	1050
1972	1150	1100

Service lines (meters)

The number of service lines installed for the supply of electricity to the consumers during various years is shown below:

Table 5 : Number of service lines installed by Power Corporation

<u>Year</u>	<u>Number of service lines installed</u>	<u>Percentage increase over previous year</u>
1969	1000	
1970	1050	5.0
1971	1100	4.8
1972	1150	4.5

If any increase has been observed there has been an increase in the number of service lines during this period particularly during the last two years.

Cost of generation of electricity

4. The average per unit cost of generation of electricity over various years is given below:

Table 2 : Average per unit cost of generation of electricity

Year	Cost per unit generation (in paise)	Reduction in cost of generation as/for the previous year's cost (percent)
1969	73	
1970	72	1.4
1971	72	28.0
1972	72	2.2

This over a period of 2 years the average per unit cost of generation has fallen from 73 paise to 72 paise - decrease of 1.4 percent.

Expenditure and Revenue

5. The information about the expenditure and revenue of the Corporation for the period 1969 to 1972 is given below:

Table 3 : Expenditure & Revenue of Power Corporation

Year	Expenditure	Revenue	Surplus (+) Deficit (-)
1969	177.77	146.42	(-) 31.35
1970	197.42	182.24	(-) 15.18
1971	190.71	228.24	(+) 37.53
1972	228.71	260.71	(-) 32.00

.....

From the above figures, the progress looks encouraging. Not only the per unit cost of generation has come down, the Corporation has shown an increasing profit during the last two years. However, the present per unit cost is still quite high as compared to the cost of generation in other neighbouring countries. There is, therefore, need for bringing the cost further down in the near future.

6. Break up of the expenditure under various items shows the following composition:

Table 5 : Break up of the Expenditure under various items

Item	(Percent)			
	Percent of the total expenditure			
	1969	1970	1971	1972
1. Fuel, Lub Oil and Water	21	22	35	36
2. Salaries and Wages	13	19	19	15
3. Other (including depreciation and interest on loan)	66	46	46	49
Total	100	100	100	100

Thus the main proportionate increase has been under Fuel, Lub Oil and Water which is perhaps unavoidable.

.....

National Statistical Department

I. Installed Capacity <u>and generated</u>	<u>at the end of</u>			
	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
1. Installed Capacity (MW)	3	3	3	12
2. Units generated (actual)	6,380	8,065	11,961	22,504
3. Units sold (in thousands)	5,323	6,825	10,234	18,351
II. Number of Service lines <u>installed (net)</u>	<u>Total at the end of</u>			
	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
At take over 1382	238	344	577	995
III. <u>Cost per unit generated</u> (Average per year)	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
(In baisas)	27	25	16	15
IV. Expenditure (Generation <u>Distribution & Management)</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
				(In Rial Omani)
1. Fuel, Lub Oil and Water	35,879	44,537	65,799	119,278
2. Salaries and Wages	22,131	25,690	36,715	48,850
3. Other (Including Deprecia- tion and Interest on loan)	114,696	131,252	86,793	159,841
V. Revenue (actual)				(In Rial Omani)
	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
	146,429	182,543	268,239	460,304

Source : Government Power Corporation, Muscat vide their
letter No. M/12.10/605 dated 18th March, 1973.

From the above figures, the progress looks encouraging. Not only
the per unit cost of generation has come down, the Corporation has
shown an increasing profit during the last two years. However,
the present per unit cost is still quite high as compared to the
cost of generation in other neighbouring countries. There is,
therefore, need for bringing the cost further down in the near
future.

4. Break up of the expenditure under various items show the fol-
lowing composition:

Table B : Break up of the Expenditure under various items

Percent of the total expenditure		1969		1970		1971		1972	
1. Fuel, Lub Oil and Water	24	25	23	26	28	24	23	27	28
2. Salaries and wages	15	14	15	16	15	14	14	15	16
3. Other (including Deprecia- tion and Interest on loan)	61	61	62	58	57	62	61	57	56
Total	100	100	100	100	100	100	100	100	100

Thus the main proportionate increase has been under fuel, the oil
and water which is getting uneconomical.

Government Department

1971	1972	1973	1974	Installed Capacity (MW) - (MW) Installed Capacity (MW)
100,00	100,00	100,00	100,00	1. Units generated (actual)
100,00	100,00	100,00	100,00	2. Units sold (in thousands)
100,00	100,00	100,00	100,00	III. Number of service lines installed (actual)
100,00	100,00	100,00	100,00	IV. Total cost per unit generated (actual) (Baizas per unit)
100,00	100,00	100,00	100,00	V. Revenue (actual)

Source: Government Power Corporation, Budget vide their letter No. W/12/1973 dated 18th March, 1973.

GOVERNMENT POWER CORPORATION

M U S C A I

STATISTICS FOR THE MONTH OF JAN. '73

	<u>Estimated</u>	<u>Actual</u>	<u>+ or -</u>	<u>% + or -</u>
Units Generated	1,179,200	1,231,890	+ 52,690	+ 4%
Units Sent out	1,111,200	1,139,735	+ 28,535	+ 3%
Units Sold	970,000	1,089,507	+119,507	+10%
Units used in Auxiliaries	68,000	92,155	+ 24,155	+26%
Units used in Staff Quarters & Stores	5,700	6,119	+ 419	+ 7%
Calculated Distributed efficiency	88%	95%	+ 7%	+ 7%
Cost per unit generated	21 Baizas	20 Baizas	- 1 Baizas	- 5%
Fuel cost per unit generated	5.3 "	4.9 "	- .4 "	- 7%
Total Generation Cost			R.O. 24,734	
Cost per unit sent out			22 baizas	
Cost per unit sold			22.7 "	

COMMERCIAL DEPARTMENT

Number of service lines installed during the month :	97
" " " " removed " " "	4
" " consumers billed during the month:	3,441
Cash collected up to 31.1.1973 :	R.O. 22,229,197
Consumers ledger outstanding balance as at 31.1.1973	R.O. 39,520,458

