

**KUW**  
**333.910095**  
**367**  
**COM**



X307250333

11 OCT 1985

## MINISTRY OF ELECTRICITY AND WATER

COMPARATIVE  
PERFORMANCE  
FIGURES  
FOR 1978, 1983 & 1984

615601547

# GENERAL AND FINANCIAL

|   |                    | 1984        | 1983        | 1978       |
|---|--------------------|-------------|-------------|------------|
| Estimated mid-year population                   | (X 1000)           | 1636        | 1564        | 1199       |
| No. of electricity consumers                    | (X 1000)           | 255.1       | 246.5       | 183.1      |
| No. of fresh water consumers                    | (X 1000)           | 69.4        | 68.0        | 32.8       |
| No. of brackish water consumers                 | (X 1000)           | 37.9        | 37.6        | 18.5       |
| Personnel                                       | (Persons)          | 12106       | 12379       | 12053      |
| <b>Mean productivity :</b>                      |                    |             |             |            |
| a) Electricity                                  | (MWh per)          | 1148        | 1010        | 580        |
| b) Fresh water                                  | (KGIn/per)         | 2859        | 2552        | 1722       |
| c) Brack. water                                 | (KGIn/per)         | 1278        | 1281        | 845        |
| Annual capital investment (Projects)            | (M. KD.)           | 339.2       | 344.7       | 123.2      |
| Accumulated capital invested to date :          | (M. KD.)           | 1770        | 1435        | 603        |
| in a) Electricity prod. & Dist.                 | (M. KD.)           | 1345        | 1076        | 431        |
| in b) Water prod. & dist.                       | (M. KD.)           | 425         | 359         | 172        |
| Operating expenses of Ministry                  | (M.KD.)            | 269.6       | 348.3       | 35.5       |
| a) Salaries & wages etc.                        | (M. KD.)           | 41.2        | 40.7        | 22.3       |
| b) General expenses and fuel                    | (M. KD.)           | 228.4       | 305.6       | 13.2       |
| <b>Estimated cost of prod. &amp; dist. of :</b> |                    |             |             |            |
| a) Electricity                                  | M. KD. (fl/s/kWh)  | 193 (18.1)  | 250 (26.3)  | 24 (4.5)   |
| b) Fresh water                                  | M. KD. (fl/s/kGIn) | 62 (2239)   | 80 (3165)   | 7 (422)    |
| c) Brackish water                               | M. KD. (fl/s/kGIn) | 8 (752)     | 10 (895)    | 2 (304)    |
| Revenues from sales                             | M.K.D.             | 32.5        | 33.3        | 15.3       |
| a) Electricity                                  | M.KD. (fl/s/kWh)   | 17.7 (1.66) | 18.6 (1.96) | 8.1 (1.51) |
| b) Fresh water                                  | M.KD. (fl/s/kGIn)  | 13.7 (495)  | 13.6 (538)  | 6.8 (410)  |
| c) Brackish water                               | M.KD. (fl/s/kGIn)  | 1.1 (103)   | 1.1 (98)    | 0.4 (61)   |
| Operating Deficit (Govt. subsidy)               | M. KD.             | 237.1       | 313.0       | 20.2       |

N. B. unit prices are per quantities consumed.

# ELECTRICITY

|                                      |                         | 1984    | 1983        | 1978        |
|--------------------------------------|-------------------------|---------|-------------|-------------|
| <b>Installed Generating Capacity</b> |                         |         |             |             |
| a) Shuwaikh P/Stn.                   | (MW)                    | 5086    | 3686        | 2128        |
| b) Shuaiba North P/stn.              | (MW)                    | 324     | 324         | 324         |
| c) Shuaiba South P/Stn.              | (MW)                    | 400     | 400         | 400         |
| d) Doha East P/Stn.                  | (MW)                    | 804     | 804         | 804         |
| e) Doha West P/Stn.                  | (MW)                    | 1158    | 1158        | 600         |
| Peak Load Demand                     | (MW)                    | 2400    | 1200        | -           |
| Minimum Load                         | (MW)                    | 2975    | 2740        | 1595        |
| Elect. energy generation (MEW)       | (MW)                    | 620     | 500         | 286         |
| Elect. energy generation (Oil Co's)  | (GWh)                   | 13894   | 12498       | 6990        |
| Elect. energy generation (Total)     | (GWh)                   | 302     | 331         | 458         |
| a) Auxiliaries & Distillation        | (GWh)                   | 14196   | 12930       | 7446        |
| b) Estimated losses                  | (GWh)                   | 2068    | 1694        | 840         |
| c) Total consumed (estimated)        | (GWh)                   | 1478    | 1356        | 816         |
| i) Residential (estimated)           | (GWh)                   | 10650   | 9780        | 5790        |
| ii) Industrial (estimated)           | (GWh)                   | 6835    | 6150        | 3335        |
| iii) Commercial (estimated)          | (GWh)                   | 1755    | 1750        | 1400        |
| iv) Govt. & Public (estimated)       | (GWh)                   | 895     | 820         | 450         |
| Per capita consumption               | (GWh)                   | 1165    | 1060        | 605         |
|                                      | (KWh/p/a)               | 8677    | 8203        | 8213        |
| <b>Fuel Consumption :</b>            |                         |         |             |             |
| a) Gas ...                           | 10 <sup>3</sup> S.C.F.  | 71 heat | 60.5 (37.1) | 33.7 (21.1) |
| b) Gas oil ...                       | 10 <sup>6</sup> barrels | 71 heat | 3.4 (9.1)   | 11.9 (36.0) |
| c) Crude oil and Heavy oil           | 10 <sup>6</sup> barrels | 71 heat | 18.2 (54.7) | 14.6 (43.7) |
| Total heat energy                    | 10 <sup>12</sup> Btu    |         | 199.2       | 181.1       |

# WATER

Kuwait  
ELE  
1978  
1983  
1984

## FRESH WATER

### Installed Distillation Capacity

|                         |        |     |     |    |
|-------------------------|--------|-----|-----|----|
| a) Shuwaikh P/Stn.      | (MIGD) | 197 | 136 | 78 |
| b) Shuaiba North P/Stn. | (MIGD) | 32  | 32  | 16 |
| c) Shuaiba South P/Stn. | (MIGD) | 14  | 14  | 14 |
| d) Doha East P/Stn.     | (MIGD) | 30  | 30  | 30 |
| e) Doha West P/Stn.     | (MIGD) | 43  | 42  | 18 |

### Maximum daily consumption

(MIGD) 78 19 --

(MIGD) 114.8 110.2 72.8

(MIGD) 67.5 54.2 38.8

(MIG) 34615 31591 20753

(MIG) 691 602 625

(MIG) 35306 32193 21378

(G.P) 21581 20584 17837

(G.P) 59.0 56.4 48.9

(MIG) 996 883 150

## BRACKISH WATER

### Production Capacity

(MIGD) 80 65 55

(MIGD) 36.3 30.5 22.5

(MIG) 13297 13067 8214

(MIG) 15466 15861 10181

(MIG) 2492 2315 2034

(MIG) 17958 18176 12215

(G.P) 10977 11621 10162

(G.P) 30.0 31.8 27.9

(MIG) 183 154 110

|        | 1984  | 1983  | 1978  |
|--------|-------|-------|-------|
| (MIGD) | 197   | 136   | 78    |
| (MIGD) | 32    | 32    | 16    |
| (MIGD) | 14    | 14    | 14    |
| (MIGD) | 30    | 30    | 30    |
| (MIGD) | 43    | 42    | 18    |
| (MIGD) | 78    | 19    | --    |
| (MIGD) | 114.8 | 110.2 | 72.8  |
| (MIGD) | 67.5  | 54.2  | 38.8  |
| (MIG)  | 34615 | 31591 | 20753 |
| (MIG)  | 691   | 602   | 625   |
| (MIG)  | 35306 | 32193 | 21378 |
| (G.P)  | 21581 | 20584 | 17837 |
| (G.P)  | 59.0  | 56.4  | 48.9  |
| (MIG)  | 996   | 883   | 150   |
| (MIGD) | 80    | 65    | 55    |
| (MIGD) | 36.3  | 30.5  | 22.5  |
| (MIG)  | 13297 | 13067 | 8214  |
| (MIG)  | 15466 | 15861 | 10181 |
| (MIG)  | 2492  | 2315  | 2034  |
| (MIG)  | 17958 | 18176 | 12215 |
| (G.P)  | 10977 | 11621 | 10162 |
| (G.P)  | 30.0  | 31.8  | 27.9  |
| (MIG)  | 183   | 154   | 110   |

