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PUBLIC UTILITIES BOARD ANNUAL REPORT 1986

The Public Utilities Board released its Annual Report for 1986 today. A copy is attached.

DEMAND FOR UTILITIES

In 1986, the total demand for electricity and piped gas increased by 6.7% and 1.3% respectively while the total demand for water declined marginally by 0.1%.

The number of consumer accounts increased by 19,153 or 2.5% to 780,584.

DEVELOPMENT PROJECTS

The Board spent $828.7 million in 1986 on projects to further develop the Republic's electricity, water and gas production and distribution facilities. This was 2.4% lower than the $848.9 million spent in 1985.

Electricity Projects

A total of $691.8 million was spent on electricity projects in 1986, 15.6% more than the $598.6 million spent in 1985.

Of this amount, $263.6 million was spent on Stage I of Pulau Seraya Power Station which comprises three units of 250 MW generators. The project is scheduled for completion in early 1988. All the major buildings were substantially completed. The 66kV and 230kV switchgear were energised and the two gas turbines for black-start were commissioned. Commissioning tests on the first 250 MW generating unit were in progress. By December 1986, $606.6 million or 77% of the estimated cost of $788 million had been spent.

The two 105 MW gas turbines at Jurong Power Station were put into operation in March and June 1986. These turbines installed at a cost of $78 million have rapid start-up capability to cater for unscheduled outage of the steam plants and for peak hour operation when necessary.

The 2.6 km undersea cable tunnel to link Pulau Seraya to mainland Singapore was completed in September. The tunnel, costing $81 million will initially accommodate four 230kV 400 MW cables costing about $144 million to transmit power from Pulau Seraya Power Station to Labrador 230kV substation. The first

two cables were commissioned in December 86. Installation of the other two cables was in progress and is scheduled for completion in October 1987.

The switchgear at Labrador 230/66kV substation was commissioned by year-end. Work on the two new 230/66kV substations at Paya Lebar and Admiralty West was in progress. These two substations will be commissioned in 1987/88.

Piling work for the new 230/66kV Power System Control Centre at Ayer Rajah was completed in March 86 and construction of the main building was in progress. It is being built adjacent to the existing Centre and will cost about $37 million. To be commissioned in mid-1988 it will cater for the expansion of the transmission network up to the year 2000.

The 230kV Interconnection of 200 MW capacity between the National Electricity Board of Malaysia's Sultan Iskandar Power Station in Pasir Gudang, Johor and the Board's Senoko Power Station was officially commissioned on 4 February 86. The joint project costing $41 million, facilitates power transfer between Singapore and West Malaysia during emergencies.

Work on the island-wide centralised Ripple Control System for streetlighting started in July 86. The project, estimated to cost $21 million is being implemented in two phases. In Phase I, four ripple control stations at Choa Chu Kang, Clementi, Marina Centre and Paya Lebar were commissioned during

the year. The fifth station at Labrador is scheduled for commissioning in early 1987. Work on Phase II, involving another five stations was in progress.

The Ripple Control System will enable the remote switching on and off of streetlights in Singapore. It requires less maintenance and operating costs and it is estimated that annual savings of $200,000 can be realised.

Water Supply Projects

Capital expenditure for water projects totalled $114.7 million in 1986. The major water projects undertaken in the year included the Sungei Seletar/Bedok Water Scheme, the Johor 2200 mm diameter pipeline scheme and the extensions of Scudai and Johor River Waterworks.

$15.2 million was spent on the Sungei Seletar and Bedok Water Scheme which comprises two reservoirs, a treatment works and nine stormwater collection stations in the eastern part of Singapore. Costing $277 million, the Scheme was fully completed in August 1986 with the completion of the last two stormwater collection stations at Yan Kit and Tampines.

The extension of Scudai Waterworks in Johor was completed in March 86. Good progress was made on the other two major water projects in Johor viz the extension of Johor River Waterworks and laying of the 2200 mm diameter pipeline from Johor River Waterworks to Singapore. These three major projects will cost a total of $250 million.

Gas Projects

A total of $11.2 million was spent on gas projects in 1986. $9.3 million was spent on the gas distribution network and $1.9 million on other minor projects.

The extension of the gas supply network to the new housing estates of Bukit Panjang, Yishun, Simei, Tampines, Pasir Ris, Bishan, Caicuogang, Serangoon Town Centre and Jurong West Extension was progressing on schedule. An estimated $20 million would be spent over a five-year period on these pipe extension projects.

FINANCE

In 1986, the Board spent $1,125.6 million on operating expenses to produce and distribute electricity, water and gas, a decrease of 25.9% over the previous year's $1,518.7 million.

The net income for the year was $403.4 million, giving a return of 6.3% on the Board's total investment of $6,381.2 million in property, plant and equipment. $203.8 million of this amount was used for repayment of loans. The remainder together with other internal sources of funds was used to finance part of the Board's 1986 capital development projects of $828.7 million. New loans totalling $500.2 million had to be obtained to cover the balance.

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