

TANJUNG PRIOK (Indonesia Power – Generation Business Unit)



TANJUNG PRIOK



Priok Generation Business Unit is one of generation units owned by PT Indonesia Power. Now, 16 generator units are installed which has 1,248 MW installed capacity consist of two units of opened cycle PLTG (gas turbine power plant); six units of PLTD (diesel power plant); two blocks of PLTGU (combined cycle power plant) which one block consists of three units of gas turbine and a unit of PLTU (steam power plant).

In the middle of 1960, in order to fulfill the electricity need particularly in Jakarta and generally in West Java, PLN Explorasi III built PLTU 1 and 2. However, in 1989, taking into account of several factors, PLTU 1 and 2 were not operated anymore.

Due to rapid development in each aspect of life, especially in industry, two units PLTU 3 and 4 were built in 1972. Have been operated for a while, these units are now in reserve shut down condition.

Later on, PLTG John Brown was built. Now it is used by PLTU Suralaya for Black Start unit. Then, two units Westing House PLTG and GE 4, 5, 6, 7 PLTG were built. GE 6 was relocated to PLN of South Sumatera and GE 7 has drawn back to General Electric. GE 4 and 5 were also relocated to PLTGU Pamaran, Bali.

The important thing that we should know about is the existences of the two units of PLTG: PLTG 1 and PLTG 3. Those units can be generated using their own power if blackout occurs. The electricity their produce can be used to generated other units. This capability does support the improvement of Java-Bali Transmission System. Because of its essential function, the two units are not being operated every day.

Other than managing those two PLTG units, Priok Generation Business Unit also manages six units of PLTD Senayan which was operated in 1961. By feeder Vip, PLTD Senayan, Kebayoran, has supplied the need of electricity for MPR (People Consultative Assembly) Building, Senayan Sport Stadium, and the television station TVRI.

Type	Gas and Diesel Power Plants
Area	Jakarta
Kind of Fuel	Natural Gas and Diesel Oil
Power Capacity	1. Senayan Diesel Power Plant = 16.08 MW 2. Priok Gas Turbine Power Plant = 52.00 MW 3. Priok Combined Cycle Power Plant = 1,180.00 MW
Owner	PT. Indonesia Power
Shareholders	PT. PLN
Activity Since	1. Senayan Diesel Power Plant = 1961 2. Priok Gas Turbine Power Plant = 1976 3. Priok Combined Cycle Power Plant = 1994
Contact	M. AHSIN SIDDIQI General Manager UBP Priok
Address	Priok Generation Business Unit Jl. Laks. Laut R.E. Martadinata, Jakarta 14310, Indonesia
Email	kontak-ip@indonesiapower.co.id
Phone & Fax	Tel. (62-21) 435-3914 - 435-3919 (hunting) Fax. (62-21) 496461, 435917
Web	http://www.indonesiapower.co.id

1. Senayan Diesel Power Plant

No. Unit	Turbine			Generator	COD	MW
	Manufacturer	Type	Serial Number			
1	Man	G 10 V-52/74 A	600036/38	AEG	1961	2.52
2	Ruston	168 KC	1M 9 833	Siemens	1962	2.52
3	Man	G 10 V-52/74 A	600036/39	AEG	1962	2.52
4	Man	G 10 V-52/74 A	600036/40	AEG	1962	2.52
5	Man	G 10 V-52/74 A	600036/41	AEG	1991	3.00
6	Man	168 KC	1M 9 833	Siemens	1993	3.00

2. Priok Gas Power Plant

No. Unit	Turbine			Generator	COD	MW
	Manufacturer	Type	Serial Number			
1	Westinghouse	W-251 Multy Stage	17 A 2164	Westinghouse	1976	26.10
2	Westinghouse	W-251 Multy Stage	17 A 2172	Westinghouse	1976	26.10

3. Combined Cycle Power Plant

No. Unit	Turbine			Generator	COD	MW
	Manufacturer	Type	Serial Number			
1	ABB	Journal GT 13 ESBK	5487	ABB	1993	130
2	ABB	Journal GT 13 ESBK	5503	ABB	1994	130
3	ABB	Journal GT 13 ESBK	5504	ABB	1994	130
4	ABB	DKZ2 – 2904	HT-360201	ABB	1994	200
5	ABB	Journal GT 13 ESBK	5505	ABB	1994	130
6	ABB	Journal GT 13 ESBK	5509	ABB	1994	130
7	ABB	Journal GT 13 ESBK	5565	ABB	1994	130
8	ABB	DKZ2 – 2904	HT-360202	ABB	1995	200

Sources :

1. <http://www.indonesiapower.co.id> 2. PLN power plant inventory list 3. Other websites