

BALI GBU (Indonesia Power – Generation Business Unit)

INDONESIA
POWER

BALI



Located in the Island of Gods, Bali Generation Business Unit is one of the generation business units owned and operated by PT Indonesia Power. It generates electricity especially distributed only for Bali Island which has 432.67 MW installed capacity.

In 1973 Bali Power Generation originally was named Pesanggaran Sector under PLN region XI, and in 1987 it was renamed to Bali Sector under PLN Generation and Transmission for East Java and Bali. Since 1995 it became part of PT Indonesia Power and is now called Bali Generation Business Unit.

Since 1995 Bali has consumed 889 GWh of electricity power from the PLN. As much as 84 kWh is provided by the PLTD (Diesel Power Plant), 295 GWh by the PLTG (Gas Power Plant) and 509 GWh is supplied from Java Bali Electricity System. In 1996 the consumption jumped to 1017 GWh provided by the PLTD, PLTG, and Java Power supply consecutively as much as 84 GWh, 305 GWh and 627 GWh. In 1997 it climbed even higher to 1136, consecutively provided by those power generations as much as 160; 432 and 544 GWh.

To fulfil the need of the electricity, Bali Power Generation owns and operates 11 PLTDs and 4 PLTGs. They are all located in Pesanggaran, Denpasar. Additional to them Gilimanuk Gas Power Generation was completed in 1997. It located in the west end of Bali Island. Totally, the whole power generations every single one of them utilizes HSD (High Speed Diesel) as its main fuel. Bali GBU also operates Pemaron Gas Turbine Power Plant (GTPP) located at Northern Beach of Bali.

Nine of the PLTDs would directly transmit their electricity to the 150 kV- High Voltage Transmission Line. The capacities of Pesanggaran, Gilimanuk and Pemaron power generation and the additional power from Java-Bali interconnection system would enable Bali Power Generation to guarantee its sufficient and dependable supply of electricity to the area.

Type	Diesel and Gas Power Plants	
Area	Bali – Indonesia	
Kind of Fuel	Diesel oil and Natural Gas	
Power Capacity	<ol style="list-style-type: none"> 1. Pesanggaran DPP 4 x 5.08 = 20.32 MW 2. Pesanggaran DPP 1 x 4.14 = 4.14 MW 3. Pesanggaran DPP 2 x 6.77 = 13.54 MW 4. Pesanggaran DPP 2 x 6.52 = 13.04 MW 5. Pesanggaran DPP 2 x 12.39 = 24.78 MW 6. Pesanggaran GTPP 1 x 21.35 = 21.35 MW 7. Pesanggaran GTPP 1 x 20.10 = 20.10 MW 8. Pesanggaran GTPP 2 x 42.00 = 84.00 MW 9. Gilimanuk GTPP 1 x 133.80 = 133.80 MW 10. Pemaron GTPP 2 x 48.80 = 97.60 MW 	Total = 432.67 MW
Owner	PT. Indonesia Power	
Shareholders	PT. PLN	
Activity Since	See below	
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1. Pesanggaran

1.1. Pesanggaran Diesel Power Plant

No. Unit	Turbine			Generator	COD	MW
	Manufacturer	Type	Serial Number			
1	Mirrlees	16 KV MAJOR	6567-1	Brush	1974	5.08
2	Mirrlees	16 KV MAJOR	6567-2	Brush	1974	5.08
3	Mirrlees	16 KV MAJOR	6567-3	Brush	1974	5.08
4	Mirrlees	16 KV MAJOR	6567-4	Brush	1974	5.08
5	Mirrlees	16 KV MAJOR	6665-1	Brush	1980	4.14
6	Mirrlees	16 KV MAJOR	6886-1	Brush	1982	6.67
7	Mirrlees	16 KV MAJOR	6886-2	Brush	1982	6.67
8	SWD	12 TM 410	3578	Holec	1983	6.52
9	SWD	12 TM 410	3579	Holec	1983	6.52
10	SWD	12 TM 410	3688	Cademes	1989	12.39
11	SWD	12 TM 410	3689	Cademes	1989	12.39

1.2. Pesanggaran Gas Power Plant

No. Unit	Turbine			Generator	COD	MW
	Manufacturer	Type	Serial Number			
1	Alstom France	PG 5341 P	T 212	Alstom France	1985	21.35
2	GE	MS 500 L	244567	GE	1993	20.10
3	Westinghouse	CW 251 B11	4658126	Brush Electric	1994	42.00
4	Westinghouse	CW 251 B11	4658127	Brush Electric	1994	42.00

2. Gilimanuk Gas Power Plant

No. Unit	Turbine			Generator	COD	MW
	Manufacturer	Type	Serial Number			
1	ABB	12 E 2	05714	ABB	1997	133.80

3. Pemaron Gas Power Plant

No. Unit	Turbine			Generator	COD	MW
	Manufacturer	Type	Serial Number			
1	GE	PG 7821 B	248856	GE	1977	48.80
2	GE	MS 7000	248857	GE	1977	48.80

Sources :

1. <http://www.indonesiapower.co.id> 2. <http://www.pln.co.id/> 3. PLN power plant inventory list 4. Other websites