

SURALAYA SPP (Indonesia Power – Generation Business Unit)

INDONESIA
POWER

SURALAYA



The Suralaya Generation Business Unit (GBU) is one of the PT Indonesia Power's generating stations. It is the largest coal fired station in Indonesia.

Suralaya power station is on the northwest tip of the Indonesian island of Java, close to the city of Cilegon and about 150 km west of the capital city of Jakarta.

Suralaya is PT. Indonesia Power's largest coal fired power station, with a total generating capacity of 4025 MW: Units 1 to 4 are 400 MW each, Units 5 to 7 are rated at 600 MW each and Unit 8 is 625 MW. The power station was constructed in four stages with Units 1 and 2 entering service in 1983 and 1984 respectively. Units 3 and 4 were commissioned in 1989 and Units 5 to 7 were placed into service in 1997.

The last unit, Suralaya Unit 8 :



PLTU 1 Banten Suralaya, Suralaya Unit 8, power plant project is part of Accelerated of 10,000 MW Development Project (part of the FTP-1 program) based on Presidential Regulation. 71 in 2006.

The area of land used to build the PLTU Suralaya power plant including facilities and other supporting facilities is 240.65 hectares.

Generating capacity of 1x 625 MW is located at Suralaya Village, District Pulo Merak, Cilegon, Banten Province about 7 Km to the north of the Port of Merak.

Project Location Project PLTU 1 Banten, Suralaya Unit 8, located at the east of the existing Unit 1 up to 7 Suralaya power plant. This plant has been in operation since the date of August 22, 2011.

Type	Coal Steam Power Plant
Area	Suralaya – Merak – Kotamadya Cilegon, West Java
Coordinates	Latitude= -5.892, Longitude= 106.03.
Kind of Fuel	subbituminous coal, gas, oil
Power Capacity	<ol style="list-style-type: none"> 1. 400 MW 2. 400 MW 3. 400 MW 4. 400 MW 5. 600 MW 6. 600 MW 7. 600 MW 8. 625 MW
Owner	PT. Indonesia Power
Shareholders	PT. PLN
Activity Since	<ol style="list-style-type: none"> 1. 1984 2. 1984 3. 1989 4. 1989 5. 1997 6. 1997 7. 1997 8. 2011
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No. Unit	Turbine			Generator	Boiler	COD	MW
	Manufacturer	Type	Serial No				
1	MITSUBISHI	Tandem Compound	T 695	Melco	Babcock & Wilcox Canada	1985	400
2	MITSUBISHI	Tandem Compound	T 714	Melco	Babcock & Wilcox Canada	1989	400
3	MITSUBISHI	Tandem Compound	T 751	Melco	Babcock & Wilcox Canada	1989	400
4	MITSUBISHI	Tandem Compound	T 752	Melco	Babcock & Wilcox Canada	1997	400
5	MITSUBISHI	Tandem Compound	T 851	Melco	Babcock & Wilcox Canada	1997	600
6	MITSUBISHI	Tandem Compound	T 861	Melco	Babcock & Wilcox Canada	1997	600
7	MITSUBISHI	Tandem Compound	T 871	Melco	Babcock & Wilcox Canada	1998	600
8	Shanghai Co. Ltd	n.a.	n.a.	Shanghai Co.Ltd	Shanghai Co. Ltd	2011	625
						TOTAL	4,025

HISTORY OF INCORPORATION of PLTU SURALAYA

At the time of the energy crisis that hit the world in 1973 and when that happens the oil embargo by Arab countries against the United States and other Industry countries and the subsequent decision of OPEC (organization of petroleum exporting countries) to increase fuel five times. Learning from the experience, the Government was to look for a replacement of the fuel energy. The government realized the dependence on fuel and natural gas and uranium will run out in the next 40-80 years in which the way out is to transfer to the coal.

In order to meet increasing demand for electricity, especially in the island of Java, in accordance with government policy as well as to improve the resource utilization of primary energy and diversification of primary energy sources for power generation, the Suralaya power plant was built using coal as the primary fuel which is the primary energy source of the fifth energy in addition to water, petroleum, gas and geothermal.

Suralaya power plant construction is done within 3 (three) phases totaling 7 units:

- Phase I = 2x400 MW in operation in 1984
- Phase II = 2x400 MW operational in 1989
- Phase III = 3x600 MW in operation in 1997

In the whole development, it was built by PLN Proyek Induk Pembangkit Thermal - West Java and Jakarta with foreign consultant from Montreal engineering Company (Monenco) Canada for unit 1 s / d 4, while for unit 5 s / d 7 of Black & Veatch International (BVI) United States. In the development of the Project PLTU Suralaya assisted by several local contractors and foreign contractors.

LAY OUT OF THE PLTU SURALAYA



Sources :

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