Sunbury Generation LP

Established July 2006

Sunbury Generation LP owns and operates the power generation facility located on a 216-acre site on the west bank of the Susquehanna River in Shamokin Dam and Hummel's Wharf, Pa. The facility has a net generating capacity of 438 megawatts and consumes up to 1.3 million tons of Pennsylvania coal and 1.5 million gallons of fuel oil each year. Coal is received by both railroad and truck and is stored in piles in the Coal Yard prior to use. Coals are blended to specifications to provide proper combustion in the boilers. Ash generated is used as a concrete additive, for roadway anti-skid, or for reclamation of abandoned strip mines.

Condenser cooling water and makeup water is withdrawn from the river after screening to prevent fish or debris from entering the plant. A low head dam prevents warm water from the plant discharge from recirculating back through the intake structure.

Electricity generated at the station is sold into the bulk electric market to the PJM Interconnection transmission system. The facility generates enough electricity each year to power over 350,000 homes. All station generation ties into the PPL switchyard located within the Sunbury Generation site.

Two hundred company and contract personnel work at the facility and approximately two hundred additional people work as supporting suppliers and vendors. Sunbury Generation hourly employees are represented by I.B.E.W. local 1600.

Commercial Operation:	**Unit 1**	**Unit 2**	**Unit 3**	**Unit 4**
	November 1949	September 1949	April 1951	August 1953
Generators:				
Manufacturer	General Electric	General Electric	Westinghouse	Westinghouse
Speed	3,600 rpm	3,600 rpm	3,600 rpm	3,600 rpm
Voltage	13,800 volts	13,800 volts	13,800 volts	13,800 volts
Cooling	Hydrogen	Hydrogen	Hydrogen	Hydrogen
Capacity	90,000 kW	90,000 kW	105,000 kW	145,000 kW
Turbines:				
Manufacturer	General Electric	General Electric	Westinghouse	Westinghouse
Type	Tandem Compound	Tandem Compound	Tandem Compound	Tandem Compound-Reheat
Steam Temp.	950° F	950° F	950° F	1000° F
Steam Pressure	1,250 psig	1,250-psig	1,250 psig	1,450 psig
Boilers:				
Manufacturer	Foster Wheeler	Foster Wheeler	Foster Wheeler	Foster Wheeler
Number	Two	Two	One	One
Steam Capacity	415,000 lb/hr each	415,000 lb/hr each	880,000 lb/hr	1,000,000 lb/hr
Heat Input	525,000,000 btu/hr	525,000,000 btu/hr	1,100,000,000 btu/hr	1,360,000,000 btu/hr
Heating Surface	9,968 sq. ft.	9,968 sq. ft.	17,400 sq. ft.	26,255 sq. ft.
Environmental Controls	Baghouse	Baghouse	Electrostatic	Electrostatic

Five of the six station boilers are tied together on a common header, providing unique flexibility for steam-turbine operation.

Commercial Operation:				
	August 1949	October 1949	April 1951	August 1953

Other generation:

Peaking operation diesel generators (2) rated at 2,500 kW each; Total of 5,000 kW.
Peaking operation combustion turbine generators rated at 18,000 kW (each) summer and 22,000 kW (each) winter.