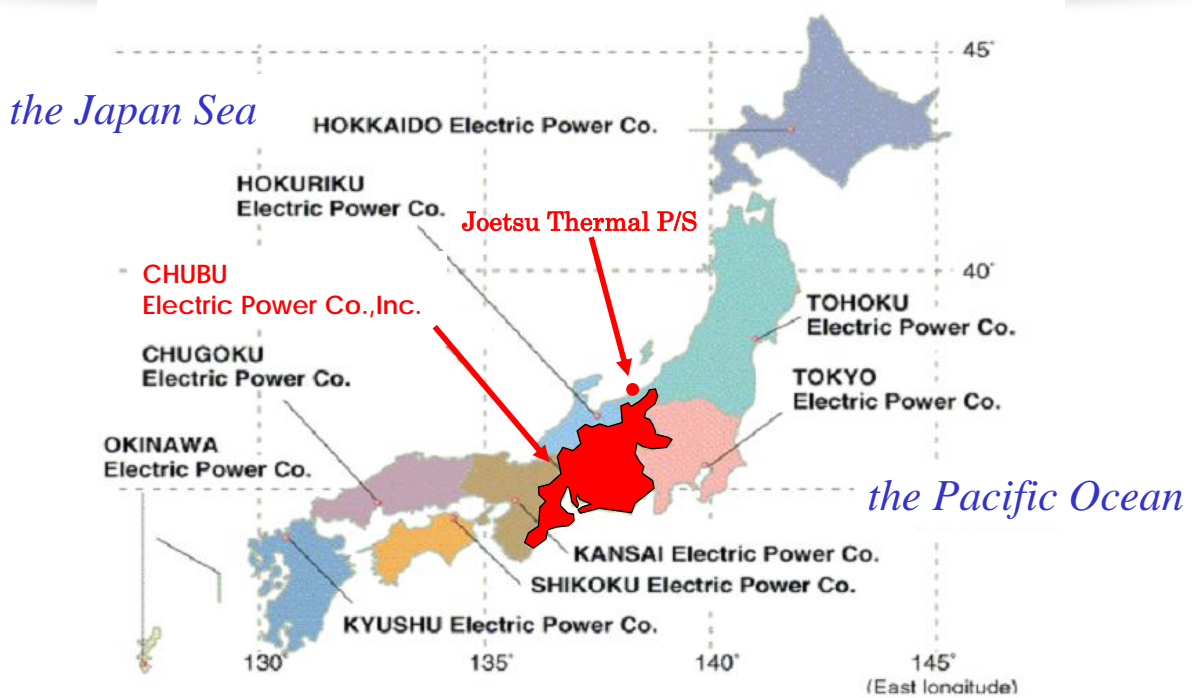




**Chubu Electric Power Co., Inc.
Joetsu Thermal Power Plant Construction Office
Toshihisa Sato**



Supply area and Frequency



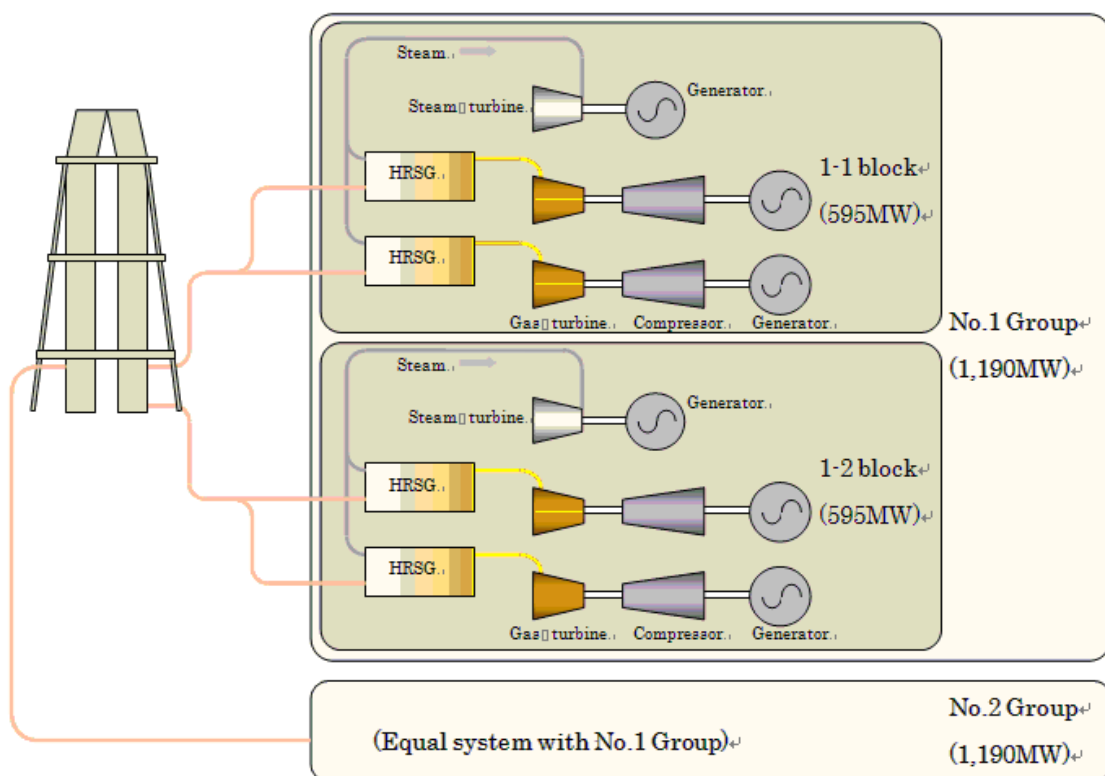


Outline of Joetsu P/S

	1-1,1-2,2-1,2-2(2Groups,4Blocks)
Total output	2,380MW(1,190MW/Group,2Groups)
System	Multi-Shaft Type Combined Cycle (Composed of 2GasTurbines,2HRSGs and 1SteamTurbine)
Fuel	LNG (180,000kL × 3Tanks)
Fuel consumption	2,000,000t/year(approximately)
CO ₂ reduction effect	1,600,000t/year(approximately)



Multi-Shaft type Combined Cycle system Composed of 2Gas Turbines,2HRSGs and 1Steam Turbines





Schedule of the Joetsu project

	2007	2008	2009	2010	2011	2012	2013	2014
1-1Block	▼Groundbreaking March-07		[Red bar from 2007 to 2012]				▼July-01	
1-2Block	[Red bar from 2007 to 2012]						▼January	
2-1Block		[Red bar from 2008 to 2013]					▼July	
2-2Block			[Red bar from 2009 to 2014]					▼May
LNG Equipment		[Red bar from 2008 to 2013]						▼May
Tank1	[Red bar from 2007 to 2012]					▼First LNG Ship arrival Dec.-11		
Tank2	[Red bar from 2007 to 2012]					▼LNG Tank cool down April-2~7		
Tank3		[Red bar from 2008 to 2013]					▼July	



Gas Turbine / Steam Turbine / HRSG

Gas Turbine



Gas Turbine

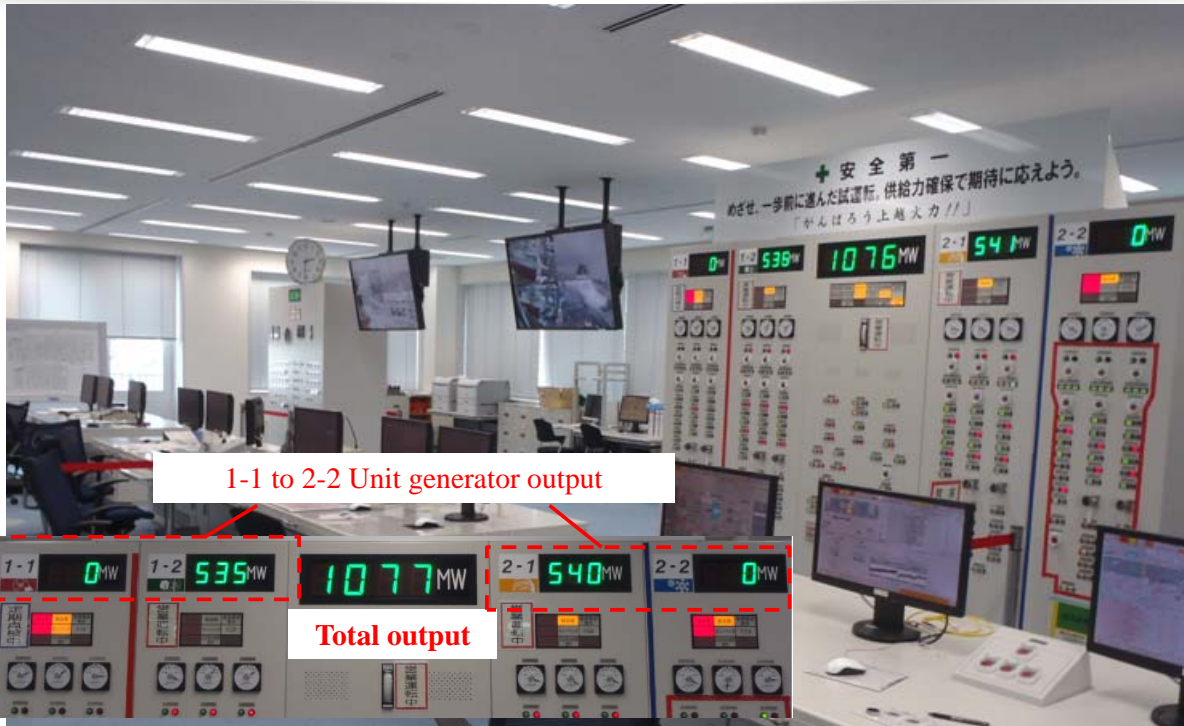
Steam Turbine



Heat Recovery Steam Generator (HRSG)



Control room

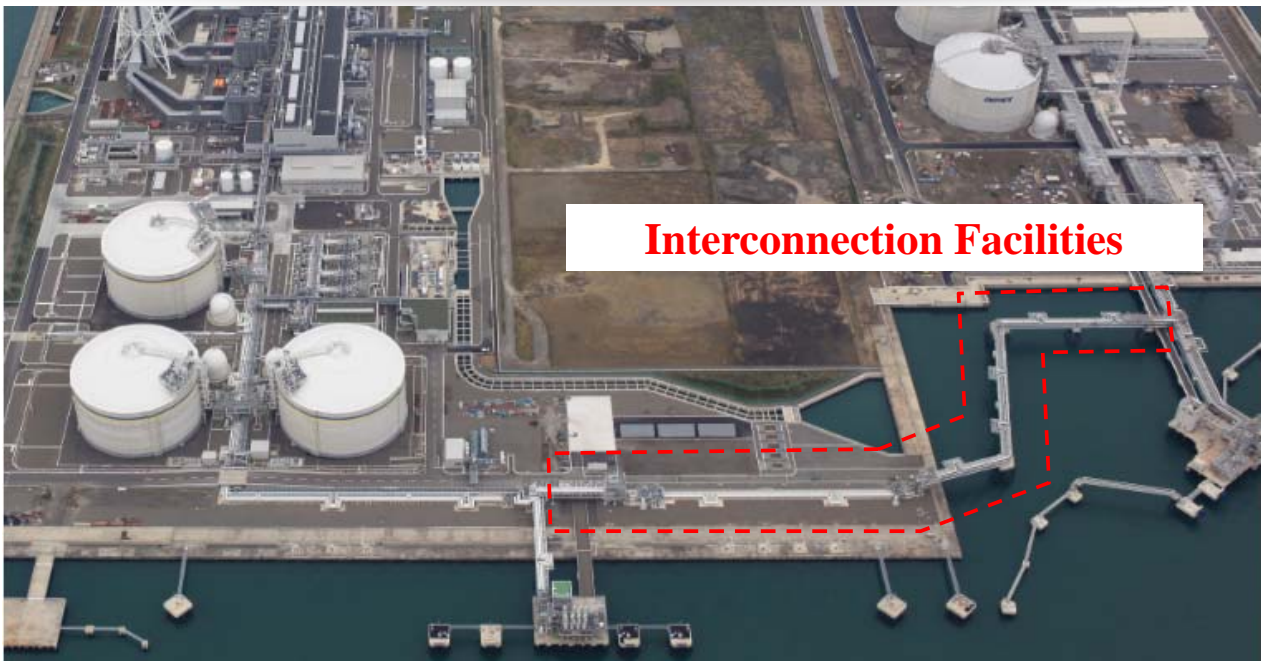


LNG Tank

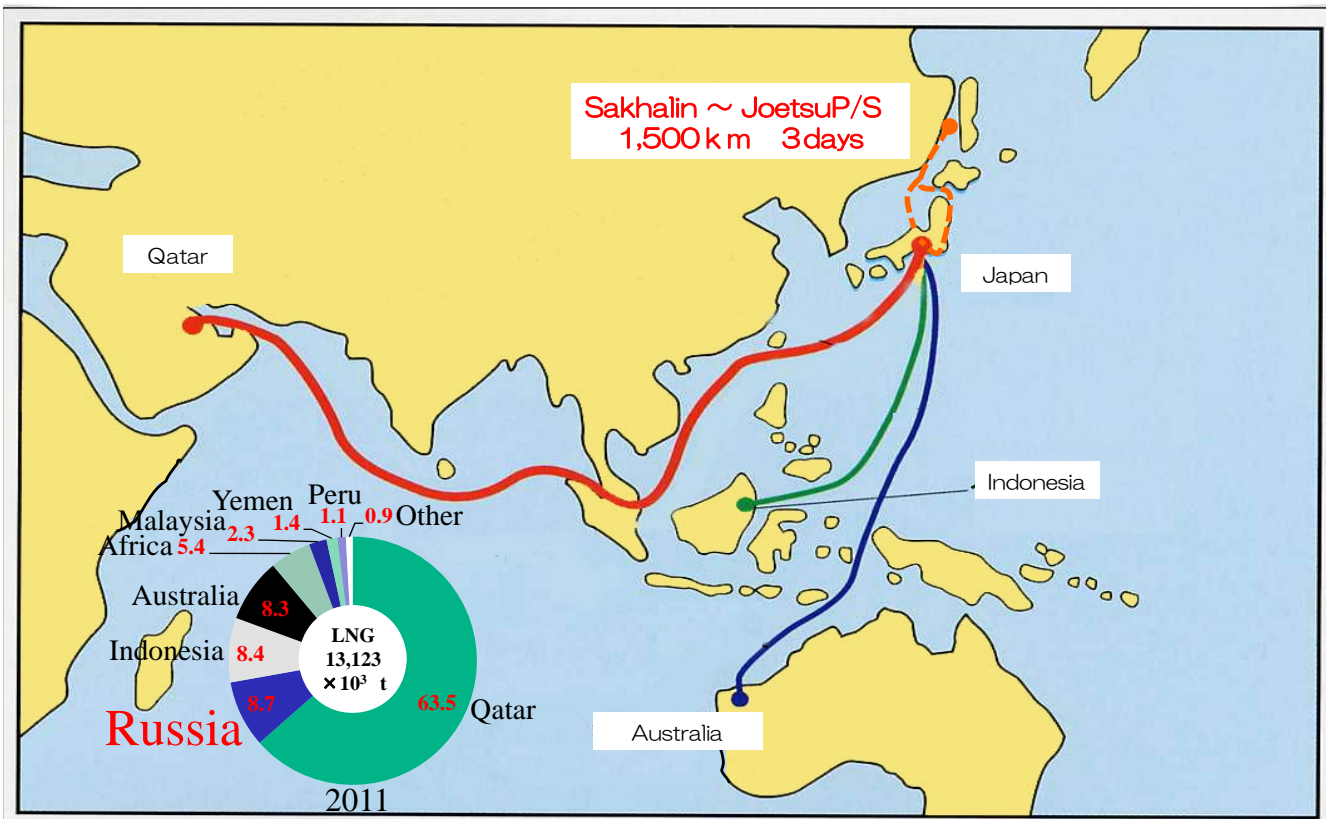




Interconnection Facilities



LNG Transportation

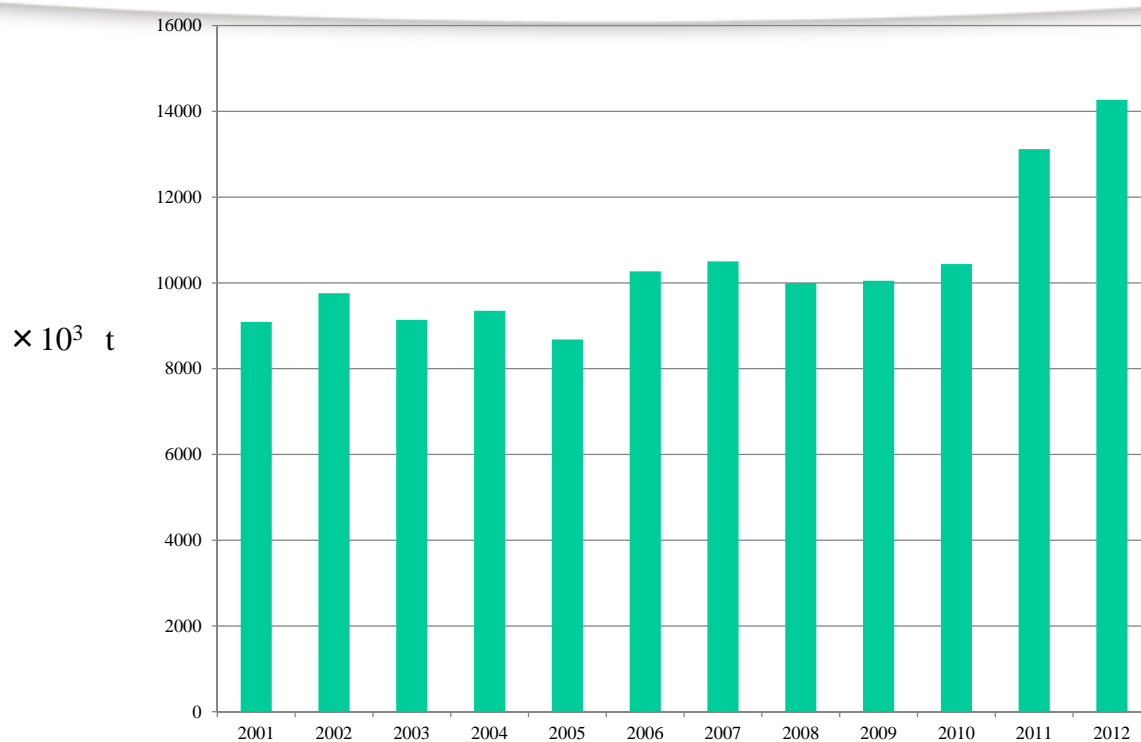




LNG Ship

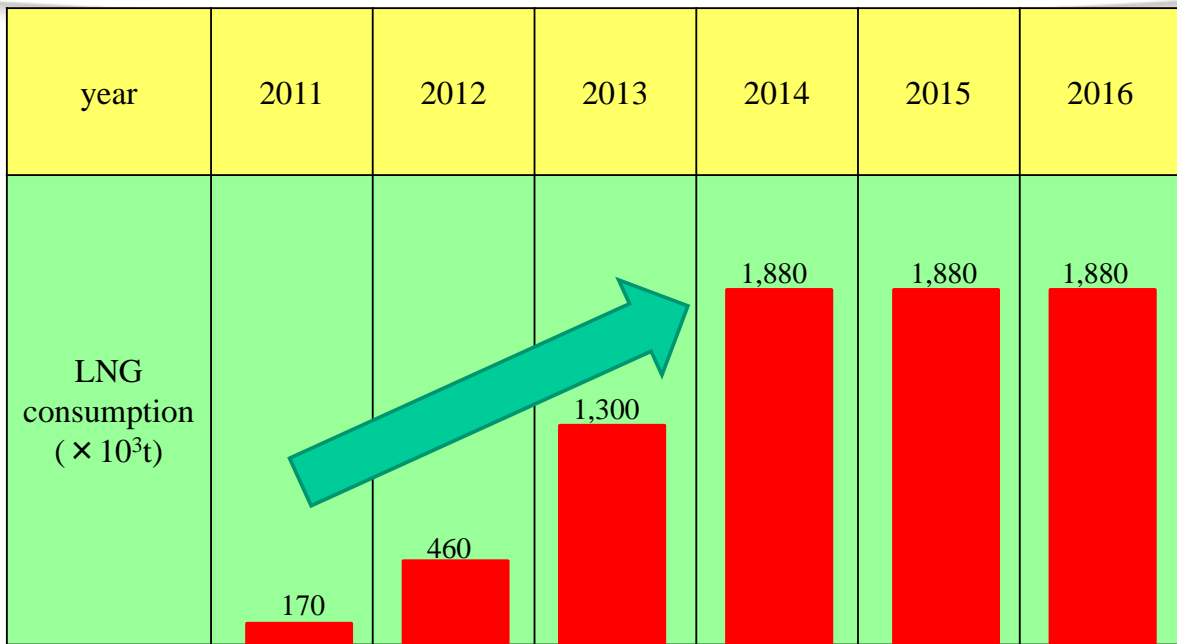


LNG imports (Chubu Electric Power Co., Inc.)





LNG consumption



Natural Gas supply by tank truck





Natural Gas supply by pipeline or tank truck for industry (Chubu Electric Power Co., Inc.)

