

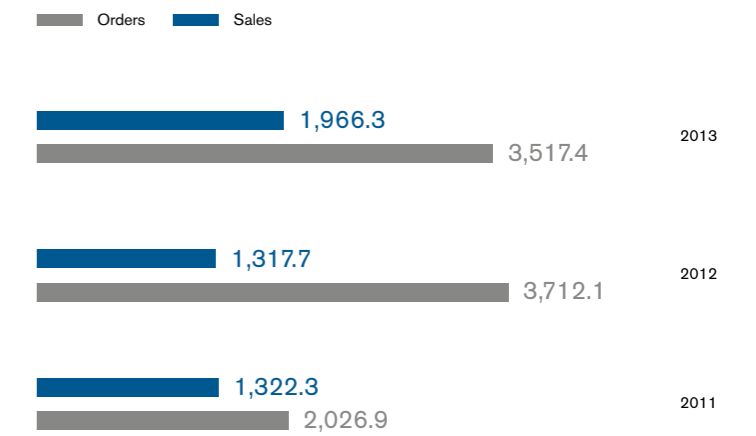


Nueva Ventanas Coal-fired Power Plant, Chile

ENERGY PLANTS

POSCO E&C strives to obtain energy sources from fire, light and wind. The company is taking the lead in creating hope for a new future in which both nature and humankind will prosper. Winning orders for coal-fired power plants in Chile and Peru was marked first among Korean construction companies to enter power plant markets in Central and South America and, has proven technical competence of POSCO E&C in the global energy business. It is expanding its business field to green energy, such as wind power and solar energy, and also to the field of future energy, such as SNG (synthetic natural gas) producing synthetic gas from coal, and CCS (carbon capture & storage). POSCO E&C will do its best to enrich human life and practice the philosophy of symbiosis that connects nature and humanity.

ORDERS & SALES



Basic exchange rate: average exchange rate in 2012 / 1\$ = 1,071.10 won (Unit: US dollars in millions)

BUSINESS AREAS

Power Plant **New & Renewable Energy**
Chemical & Gas Plant **Coal Chemistry**

LIST OF PROJECTS

PROJECT NAME: PROJECT PERIOD, CAPACITY

- Kallpa Combined Cycle Conversion: Nov 2009–Aug 2012, 831MW
- Chilca Uno Power Station ADD-ON Project: June 2010–Nov 2012, 820MW
- POSCO POWER COMBINED CYCLE POWER PLANT UNIT:
 Jan 2009–July 2011, 500MW×2 units
- ANSAN Combined Cycle Power Plant: Jan 2012–Oct 2014, 834MW
- Nueva Ventanas 240MW coal fired power Project: Dec 2006–Dec 2009, 240MW
- Angamos Thermoelctirc power Project: Mar 2008–Oct 2011, 230MW(2 units)
- Campiche 240MW Coal Fired Power Project: May 2008–Mar 2013, 240MW
- Khabat Thermal Power Plant units 1&2 and Bazyan Substation:
 Nov 2012–Nov 2015, 150MW(2 units) 400KV
- POSCO POWER Gwangyang By-product Gas CCGP Unit 1&2:
 Feb 2009–May 2011, 150MW×2 units
- POSCO ENERGY Pohang By-product Gas CCGP Unit 1&2:
 Feb 2012–May 2014, 150MW×2 units
- Oxygen Plant(Pohang #16, Gwangyang #16): June 2011–Dec 2013, 100,000Nm³/h
- POSCO SNG Plant: May 2011–June 2014, 500,000 tons/day
- Pilot Plant for 10MW CO₂ Capture Technology:
 Oct 2011–May 2013, 200 ton CO₂/year
- No.8,9 Samcheok LNG Terminal Tanks: Mar 2012–June 2016, 200,000kl×2 units
- Dong-hae Biomass Power Plant: Dec 2011–July 2013, 30MW
- Taegisan Wind Power Corp.: Dec 2006–Jan 2009, 40KW
- Yeong-Am Solar power plant: July 2007–May 2008, 3000KW
- Pohang Fuel Cell Generation Co., Ltd.: Apr 2008–Oct 2008, 24,000KW
- Busan RDF power plant: Oct 2010–Apr 2013, 900 ton/day
- Seoul Combined Cycle Power Plant units 1&2 - civil engineering & construction:
 Mar 2013–Sept 2016, 2,400MW×2, Heat production facilities: 530Gcal/h
- Yeosu Thermal Power Plant unit 1 construction work: May 2012–Feb 2016, 350MW



Chilca Uno Combined Cycle Coal-fired Power Plant, Peru



Angamos Coal-fired Power Plant, Chile



POSCO POWER Combined Cycle Power Plant No. 5&6, Korea



Gwangyang SNG Plant, Korea



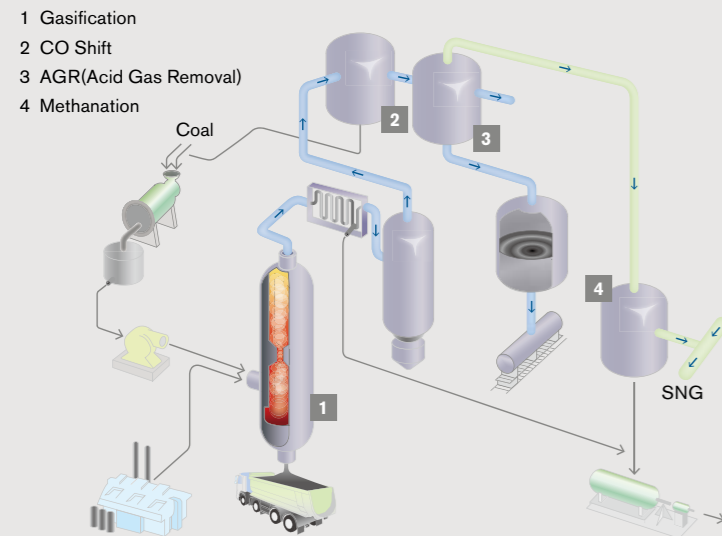
Campiche Coal-fired Power Plant, Chile (top) / Kallpa Combined Cycle Coal-fired Power Plant, Peru (bottom)

TECHNOLOGY

SNG (Synthetic Natural Gas)

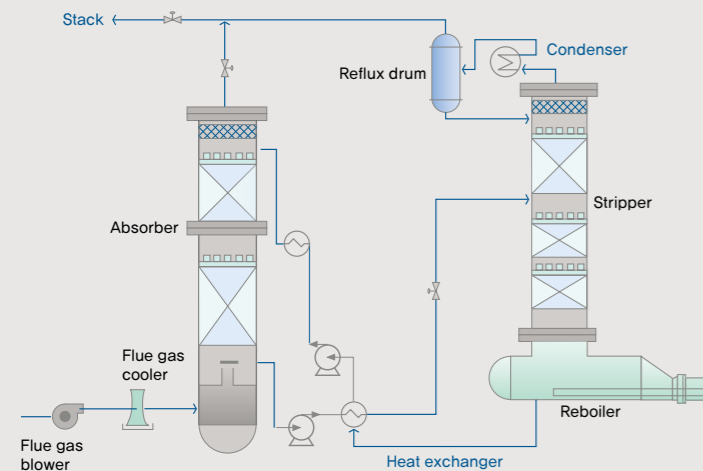
SNG technology is a clean coal technology producing synthetic natural gas by combining hydrogen gas and carbon monoxide gas produced from coal with methane gas. POSCO E&C is constructing a facility in Gwangyang that produces 500 thousand tons of gas per year using SNG technology.

Gasification → CO Shift → AGR → Methanation → SNG



CCS (Carbon Capture & Storage)

CCS technology captures and stores the CO₂ emitted from fossil fuel combustion, thus contributing to the reduction of CO₂ released into the atmosphere. This technology attracted remarkable global attention and POSCO E&C is applying it while constructing the 10MW Aqueous Amine-based CO₂ CCS Plant to capture the CO₂ of the Boryeong Coal-fired Power Plant.



Yeosu Thermal Power Plant unit 1, Korea



Busan RDF Power Plant, Korea



Gwangyang LNG Terminal Tanks (Nos. 3 & 4), Korea



Busan RDF Power Plant, Korea



Seoul Combined Cycle Power Plant Units 1&2 civil engineering & construction, Korea



Taegisan Wind Power Plant, Korea (top) / Dong-hae Biomass Power Plant, Korea (bottom)