

# Combined Cycle Power Plant

| Project                                       | Start     | Completion | Location               | Client                       | Generation Capacity                          | Contents  |
|---|-----------|------------|------------------------|------------------------------|--|---|
| Kallpa Combined Cycle Power Plant             | Nov. 2009 | Aug. 2012  | Chilca, Peru           | Kallpa Generacion S.A.       | Simple cycle(560MW)<br>Combined cycle(830MW) | A conversion project from the single cycle power plant that generated 561MW into a combined cycle power plant of 830MW using Natural Gas. POSCO E&C took a first step into Peru's Energy market among Korea construction companies through this project.  |
| ChilcaUno Power Station Add-on Project        | Jun. 2010 | Nov. 2012  | Chilca, Peru           | Enersur.S.A                  | Simple cycle(530MW)<br>Combined cycle(810MW) | An EPC turn-key project for the design and construction of a power station add-on project from Simple Cycle (530MW) to Combined Cycle (810MW) using Natural Gas.  |
| POSCO POWER Combined Cycle Power Plant No.1&2 | Apr. 2009 | Jun. 2011  | Gwangyang Steel works  | POSCO POWER                  | 284MW  | This is an EPC Turn-key project which composes two set of eco-friendly gas turbine combined cycle power plants of 142MW capacity by using by-product gases (BFG,COG) as recycled fuel, after collecting surplus by-product gas which is generated according to increased production of crude steel at Gwang-yang Steel Works. |
| POSCO POWER Combined Cycle Power Plant No.5&6 | Aug. 2008 | Jun. 2011  | Incheon reclaimed area | POSCO POWER                  | 1000MW                                       | This is an EPC Turn-key project which composes two set of gas turbine combined cycle power plants of 500MW capacity using LNG as main fuel in order to produce power for selling. And this is also IPP business for POSCO Power.  |
| Hwasung Combined Cycle Power Plant            | Jul. 2008 | Dec. 2008  | Hwasung, Kyunggido     | Korea District Heating Corp. | 500MW  | A construction project for combined cycle power plant using LNG with heating system to supply community energy(heat) in Dongtan residential area.   |
| Paju Combined Cycle Power Plant               | Jun. 2007 | Jun. 2010  | Paju, Kyunggido        | Korea District Heating Corp. | 500MW  | A construction project for combined cycle power plant using LNG with heating system to supply community energy(heat) in Kyoha residential area and Unjeong new city.  |

## ENERGY PLANT

|                                    |           |           |                               |                |             |  |
|------------------------------------|-----------|-----------|-------------------------------|----------------|-------------|--|
| FINEX Combined Cycle Power Plant   | Jun. 2005 | Jul. 2007 | Pohang Steel works            | POSCO          | 146MW       | A project to construct an environment-friendly gas turbine combined cycle power plant with a capacity of 146MW using by-product gas (FOG) generated from a FINEX plant at Pohang Steelworks. The plant is Korea's first gas turbine combined cycle power plant to utilize Low BTU by-product gas of the Steelworks, and a single-shaft plant equipped with both the gas turbine and the steam turbine connected to a single shaft. |
| LNG Combined Cycle Power Plant     | Oct. 1997 | Jan. 2001 | Pohang Steel works            | POSCO          | 345MW       | An EPC turn-key project for the design and construction of a gas turbine combined cycle power plant with a capacity of 345MW using LNG as the main fuel for the stable supply of power and steam to plants involved in iron production at Pohang Steelworks.   |
| LNG Combined Cycle Power Plant     | Feb. 1996 | Aug. 1999 | Gwangyang Steel works         | POSCO          | 500MW       | An EPC turn-key project for the design and construction of a gas turbine combined cycle power plant with a capacity of 500MW using LNG as the main fuel for the stable supply of power and steam to plants involved in iron production at Gwangyang Steelworks.  |
| Uijeongbu Group Energy             | Sep. 2008 | Mar. 2013 | Uijeongbu, Gyeonggi-do, Korea | Daeryun Energy | 103.2Gcal/h | A heating system installation business is for the supply of LNG heat energy heat heating population Uijeongbu Millak2 District.  |
| Yangju Combined Heat & Power plant | Jul. 2011 | Dec. 2013 | Yangju-si, Gyeonggi-do, Korea | Daeryun Power  | 555MW       | A heating system installation business is alienation heat for combined heat and power generation combined cycle for the supply of LNG Group Energy for heating and heat for Yangju Okjeong & Hoecheon district   |
| Ansan Combined Cycle Power Plant   | Jul. 2012 | Oct. 2014 | Ansan-si, Gyeonggi-do, Korea  | S-Power        | 834MW       | An EPC Turn-Key business is complex gas turbine power plant of 834MW capacity of the main LNG as fuel for the production of electricity for sale. It is the IPP business of the S-Power which is a special purpose company Samchully, Korea South-East Power, POSCO E&C was established.   |

# Coal Fired Power Plant

| Project                               | Start     | Completion | Location              | Client                     | Generation Capacity |   |
|---------------------------------------|-----------|------------|-----------------------|----------------------------|---------------------|---|
| Angamos coal fired power plant        | Oct. 2007 | Aug. 2011  | Antofagasta, Chile    | AES Gener                  | 260MW x 2           | Scope: EPC Turn-Key<br>Main facilities<br>- Steam Turbines(Ansaldo Energia)<br>- Boiler(Doosan Heavy Industry and Construction) |
| Nueva Ventanas coal fired power plant | Sep. 2006 | Dec. 2009  | Nueva Ventanas, Chile | AES Gener                  | 270MW               | Scope: EPC Turn-Key<br>Main facilities<br>- Steam Turbines(Ansaldo Energia)<br>- Boiler(Doosan Heavy Industry and Construction) |
| Campiche coal fired power plant       | Oct. 2007 | Mar. 2013  | Nueva Ventanas, Chile | AES Gener                  | 270MW               | Scope: EPC Turn-Key<br>Main facilities<br>- Steam Turbines(Ansaldo Energia)<br>- Boiler(Doosan Heavy Industry and Construction) |
| Merak CFBC coal fired power plant     | May 2010  | Feb. 2014  | Banten, Indonesia     | PT. Merak Energi Indonesia | 60MW x 2            | Scope: EPC Turn-Key<br>Main facilities<br>- Steam Turbines(Fuji)<br>- Boiler(Foster Wheeler)                                    |
| Cochrane coal fired power plant       | May 2013  | Sep. 2017  | Antofagasta, Chile    | AES Gener                  | 270MW x 2           | Scope: EPC Turn-Key<br>Main facilities<br>- Steam Turbines(Ansaldo Energia)<br>- Boiler(IHI)                                    |

# Cogeneration Thermal Power Plant

| Project  | Start     | Completion                           | Location              | Client                                 | Generation Capacity    |  |
|--|-----------|--------------------------------------|-----------------------|--|------------------------|--|
| South Jeju Thermal Power Plant No.3&4                      | Jul. 2004 | Sep. 2006 (No.3)<br>Mar. 2007 (No.4) | Seoguipo, Jeju Island | KOSPO (Korea Southern Power Co., Ltd.) | 100MW x 2units         | This is the power plant using heavy oil as main fuel and it was designed to cope with increased power demand and furnish stable and reliable power to JEJU Island.   |
| No. 9 Cogeneration Thermal Power Plant                     | Nov. 2004 | Aug. 2006                            | Gwangyang Steel works | POSCO                                  | 100MW                  | By using surplus by-product gas(BFG, COG, LDG) as reusable fuel after collection from the steel works, generated by the increased production of crude steel at Gwangyang Steelworks, this cogeneration thermal power plant contributes to the environment protection and also generates and supplies 100MW power and 45ton/hr steam.   |
| Boiler remodeling of No.2 Cogeneration Thermal Power Plant | Aug. 2002 | Oct. 2003                            | Pohang Steel works    | POSCO                                  | Boiler 125 Ton/h Steam | This is a project to replace the low pressure boiler at Pohang steel works due to deterioration of plant. And it decreases high pressure and temperature steam to low pressure and temperature steam of No.2 power plant on operation. Then with this operation, the supply of low poessure and temperature steam could improve the power plant. Also this project is aimed at preparation in produce and obtaining of the capability of stable supply so that it seeks for stable operation of the plant. |

# By-product Power Plant

| Project                             | Start     | Completion | Location              | Client                  | Generation Capacity |   |
|-------------------------------------|-----------|------------|-----------------------|-------------------------|---------------------|---|
| Krakatau By-product Gas Power Plant | Aug. 2011 | Dec. 2013  | Cilegon,<br>Indonesia | Krakatau<br>POSCO Power | 100MW x 2           | Scope: EPC Turn-Key<br>Main facilities<br>- Steam Turbines(Fuji)<br>- Boiler(Bumwoo Heavy Industry) |