

# **Progress in Gwangyang Coal Gasification SNG Project**

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**Coal Gasification Symposium**  
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- **Who is RIST ?**
- **Why SNG in POSCO ?**
- **Gwangyang SNG Project Overview**

# Who in RIST ?

POSCO has two research institutes

- ▶ **POSCO Research Lab** for steel production researches
- ▶ **RIST** for researches on POSCO's new growth, such as new energy and non-ferrous metals

## Location



RIST Headquarter  
in Pohang

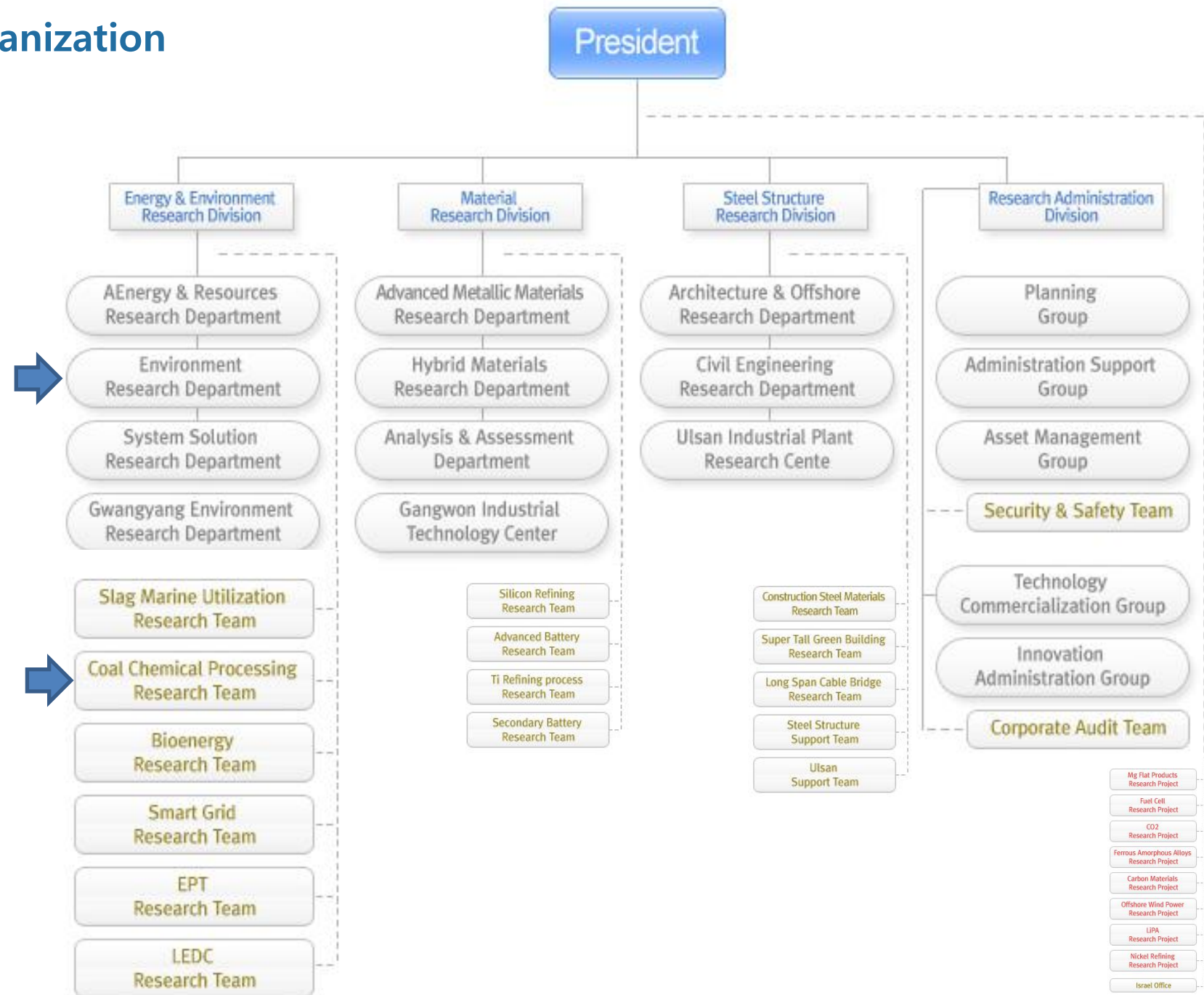
Steel Structure  
Research Division

Ulsan Industrial Technology  
Research Center

Gangwon Industrial  
Technology Research Center

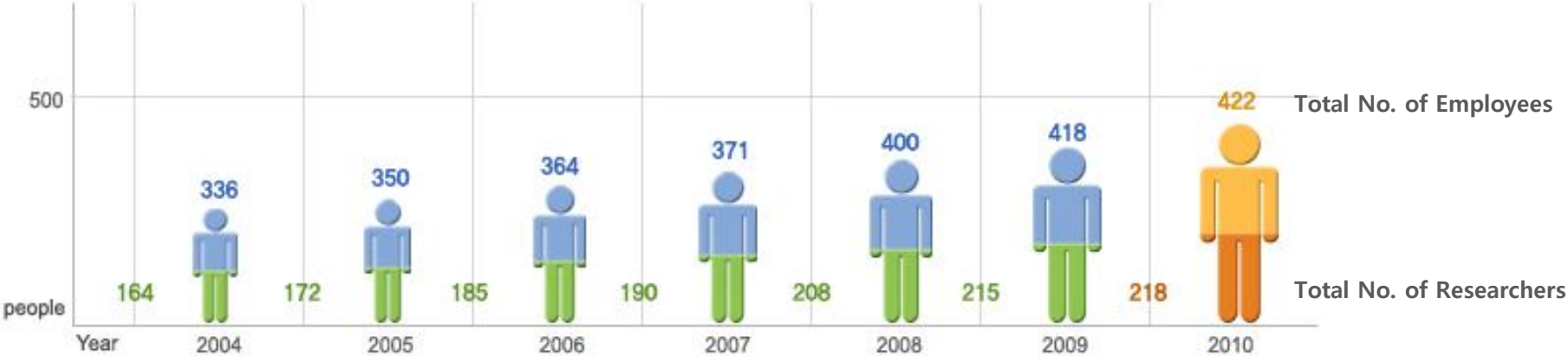
Gwangyang Environment  
Research Department

# Organization

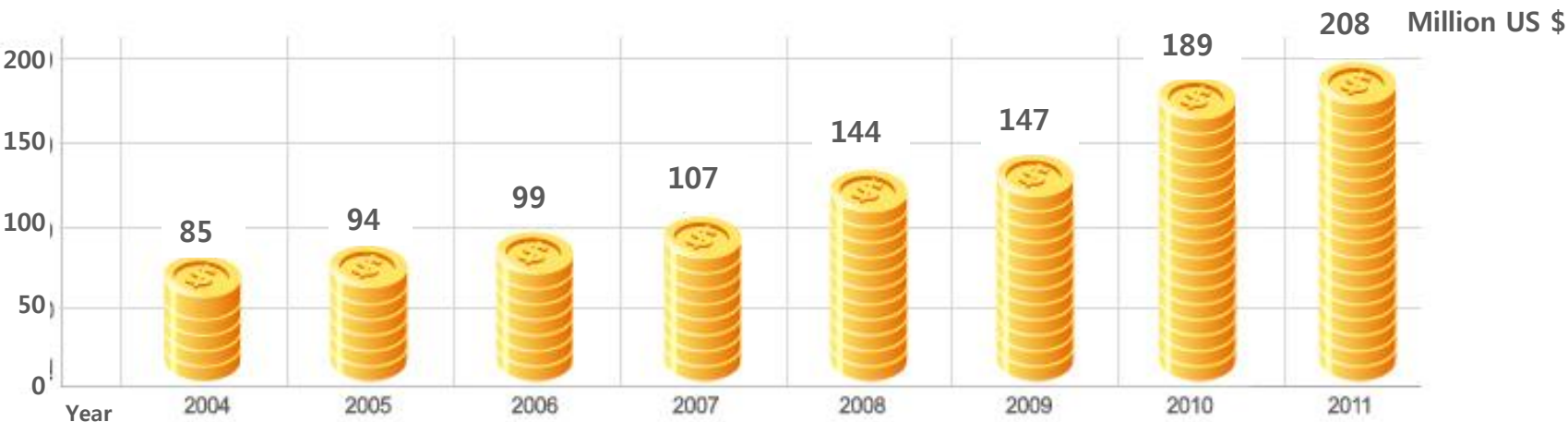


# Statistics

## No. of Employees



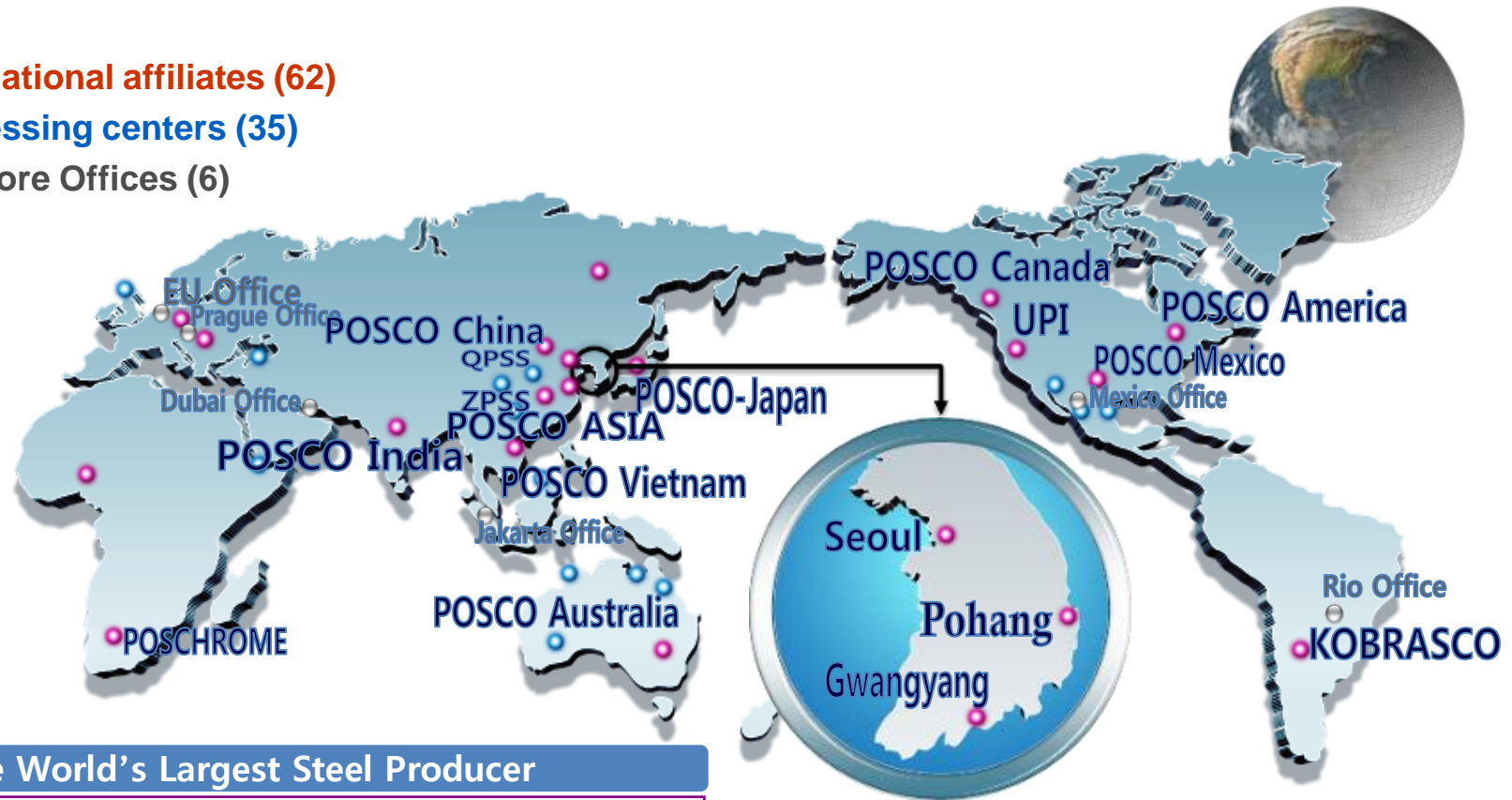
## R&D Budgets



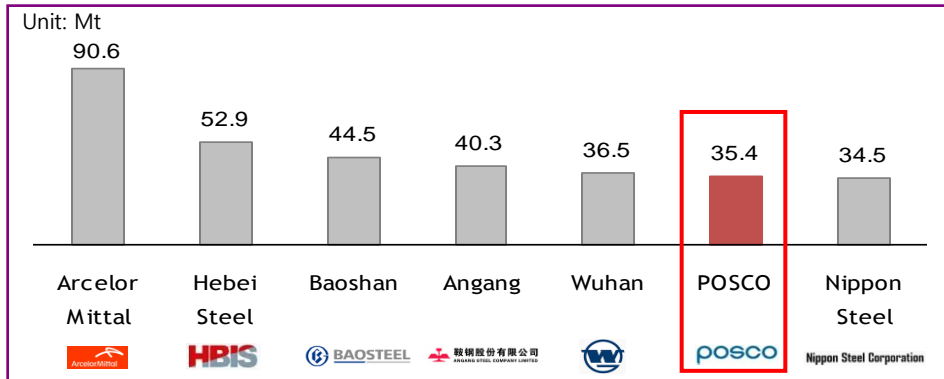


# POSCO is the Leader of Steel industry Worldwide

- International affiliates (62)
- Processing centers (35)
- Offshore Offices (6)



## One of the World's Largest Steel Producer

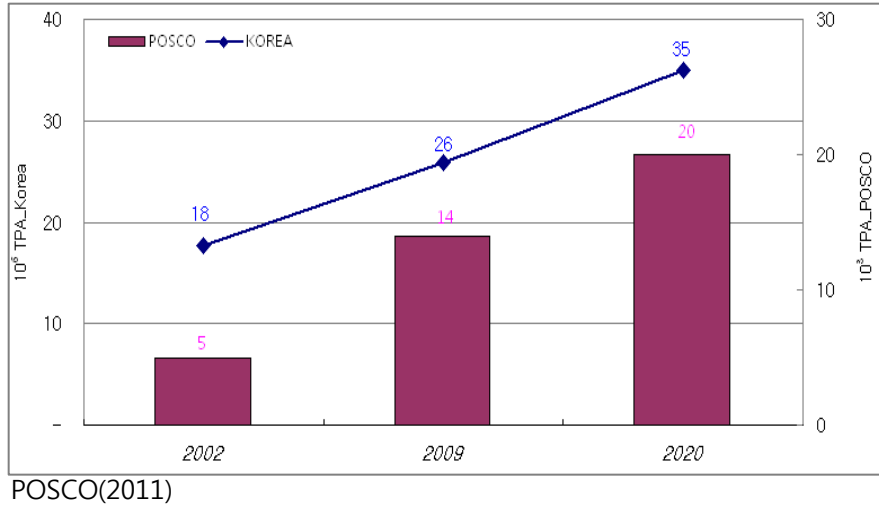


- 2010 Revenue \$30.0 Billion
- 16,300 employees in the world

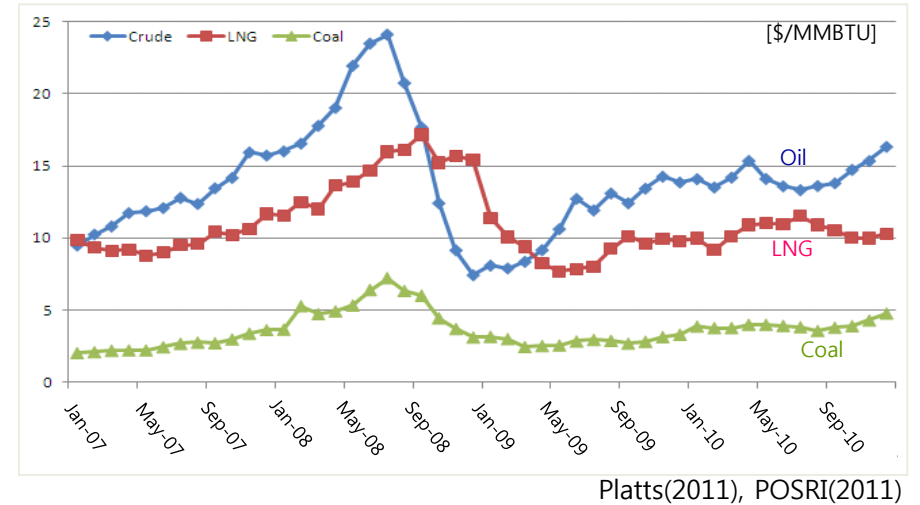
\* Source: SBB, based on 2010 consolidated output

# Why SNG in POSCO ?

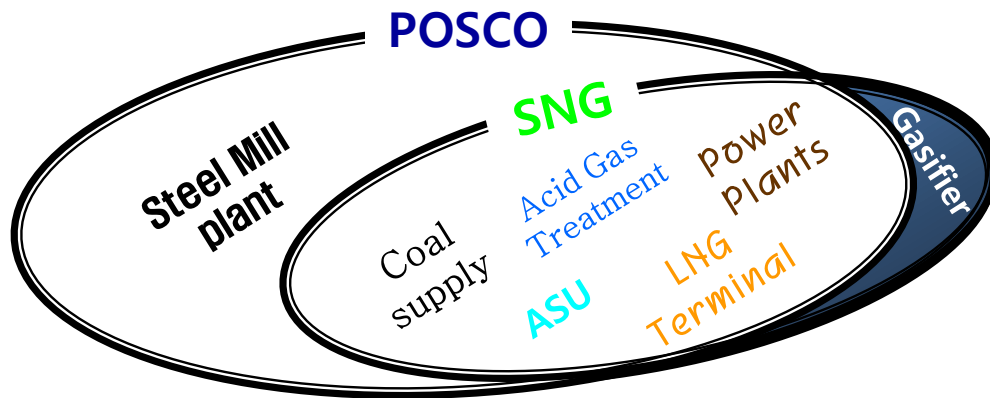
- ✓ LNG Demand increases for POSCO



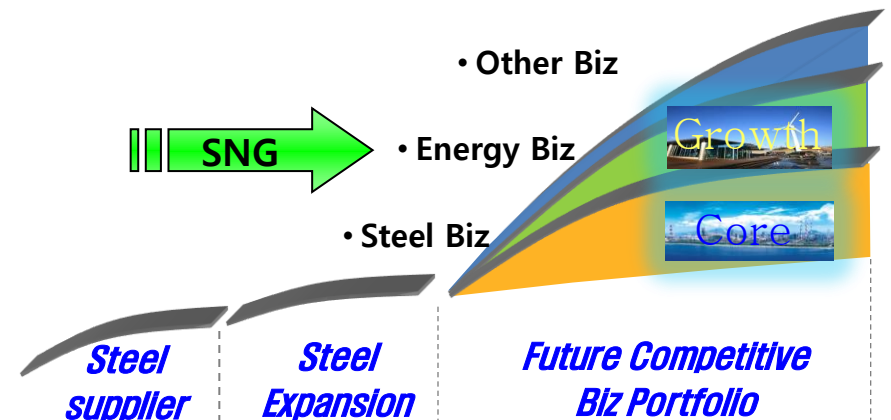
- ✓ SNG price is more competitive than LNG



- ✓ POSCO is ready for SNG with many backgrounds



- ✓ SNG is a key growth engine for Energy Biz



# **Progress in Gwangyang SNG Project**



# Project Overview

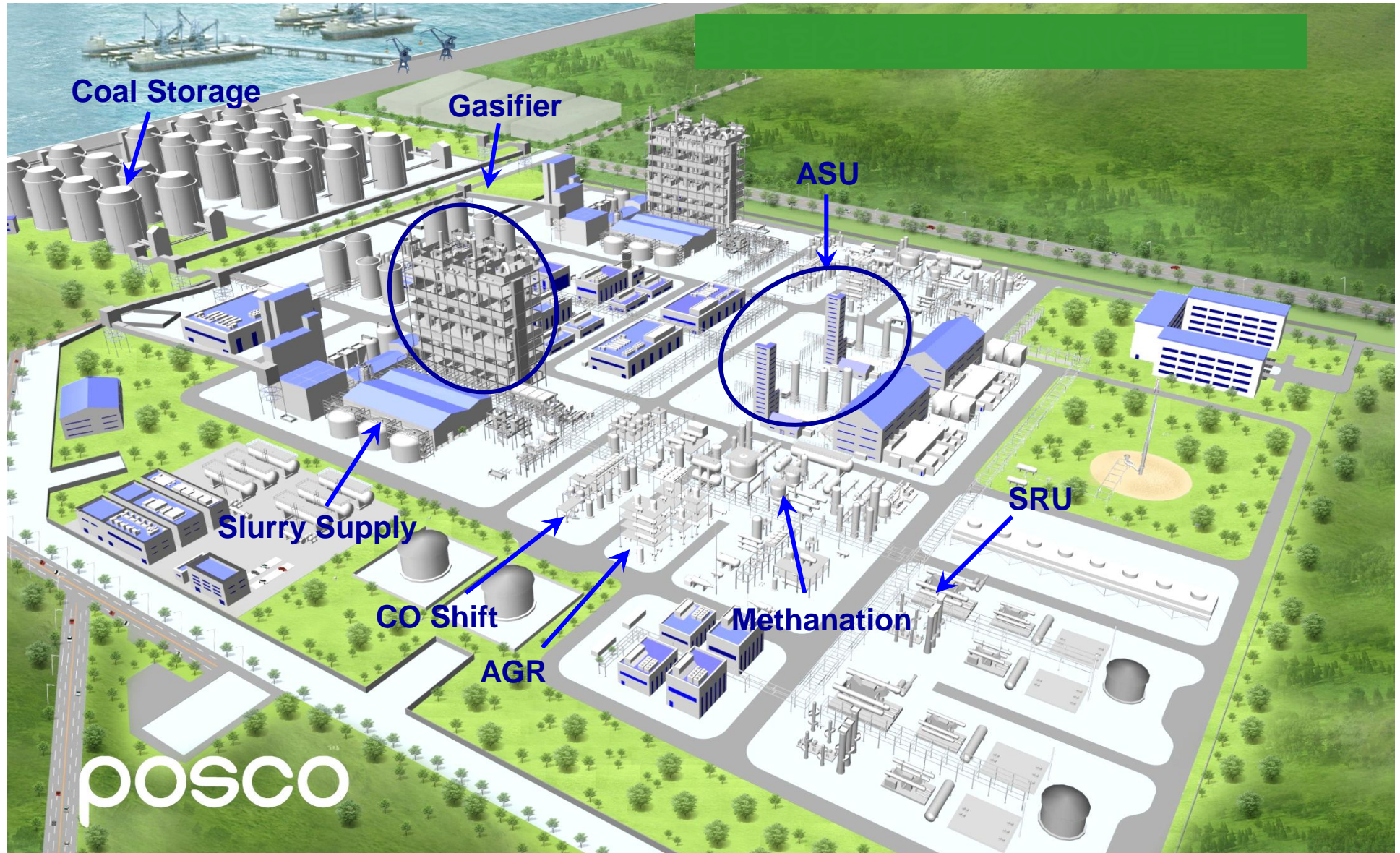
## Project Outline

- **Location**      **Gwangyang, Korea**
  - Site Size    100 Acre
- **Capacity**      **500KTA of SNG**
  - 5,500 TPD Sub-bituminous Coal
  - ConocoPhillips Gasifiers 2 + 1
  - Linde Rectisol for Acid Gas and CO<sub>2</sub> Separation
  - HaldorTopsoe Methanation Process
  - Jacobs FEED Contractor
  - POSCO E&C EPC Contractor
  - Daewoo Eng. Detail Eng. Contractor
- **Schedule**      **'08.11 ~ '14.6**
  - '11.6.7      Groundbreaking Ceremony

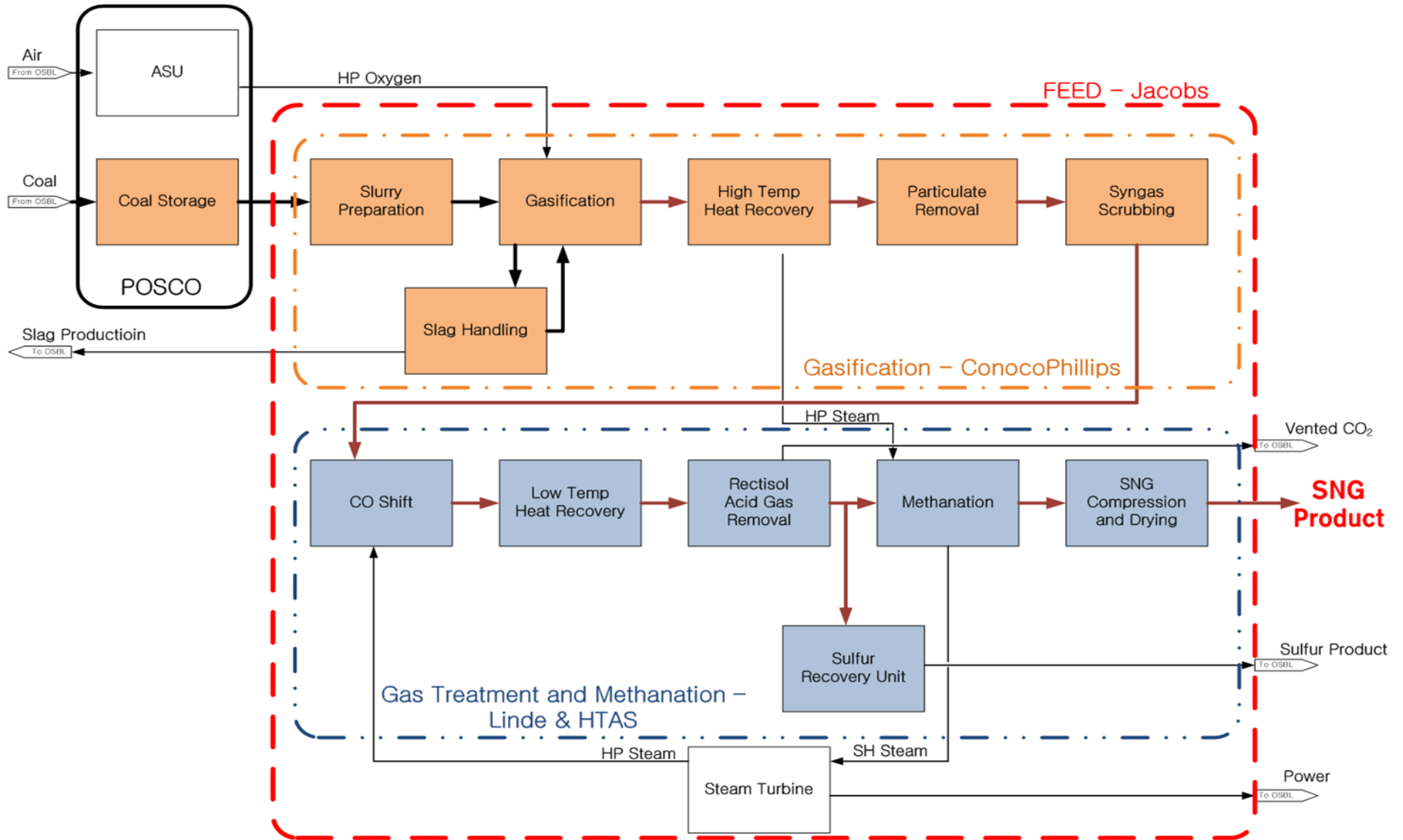




# SNG Plant Overview

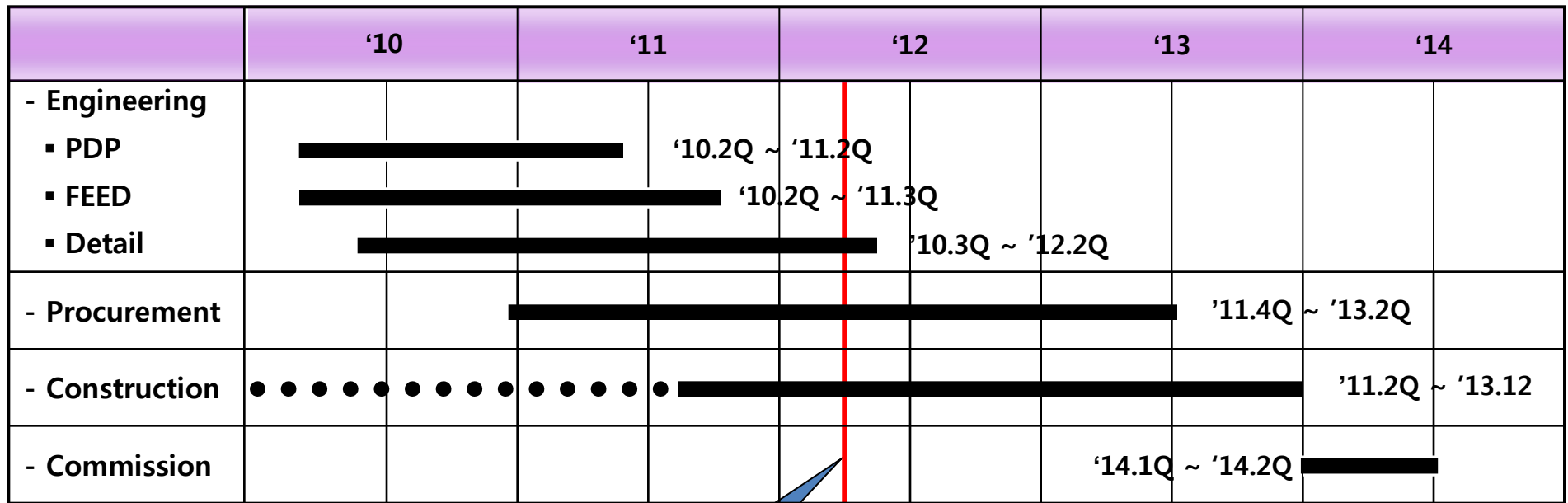


# SNG Process Overview



## Present Status & Schedule

- Oct, 2009 **Approved by BOD, EPC Contract with POSCO E&C**
- Apr ~ Sep, 2010 **PDP Contract with CoP·Linde·H/T, FEED with Jacobs**
- Jun, 2011 **Groundbreaking Ceremony**
- March, 2012 **Final Stage of Engineering**
- **Present Procurement and Construction in progress**



Today



# Site Progress Status



✓ Completion of Land Preparation



✓ Groundbreaking Ceremony



✓ Commencement of Piling



✓ Piling for SNG PHC



✓ Head End Closing of Steel Pipe Pile



✓ Excavation for Concrete Foundation



✓ Whole View of Plant Area





감사합니다

Thank you

ありがとうございます。

posco

RIST