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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

**Form 6-K**

**REPORT OF FOREIGN PRIVATE ISSUER  
PURSUANT TO RULE 13a-16 OR 15d-16  
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

For the month of July, 2009

**POSCO**

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(Translation of registrant's name into English)

POSCO Center, 892 Daechi 4-dong, Kangnam-gu, Seoul, Korea, 135-777

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(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:  Form 20-F    Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934:  Yes    No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):   n/a  

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POSCO is furnishing under cover of Form 6-K :

Exhibition 99.1 : An English-language translation of documents with respect to  
POSCO and SK Energy to Develop Synthetic Natural Gas

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## SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

POSCO

Date: July 28, 2009

By: /s/ Lee, Dong-Hee

Name: Lee, Dong-Hee

Title: President

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## EXHIBIT INDEX

**Exhibit No.**

**Description**

99.1

POSCO and SK Energy to Develop Synthetic Natural Gas

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## **POSCO and SK Energy to Develop Synthetic Natural Gas**

POSCO and SK Energy Co., Ltd. (“SK Energy”) signed a memorandum of understanding with the Korean government to develop clean coal technologies, including synthetic natural gas (produced through a coal-to-gas conversion process utilizing low-quality coal). Domestic production of synthetic natural gas is expected to substantially reduce Korea’s dependence on imported liquefied natural gas.

In respect to the foregoing, POSCO is planning to invest approximately 7.8 billion won for research and development of clean coal technologies, with SK Energy and the Korean government planning to contribute additional funding in the amounts of 17.2 billion won and 25 billion won, respectively.

POSCO further plans to build a synthetic natural gas plant by 2013 with an annual production capacity of 500,000 tons.