

HUANENG POWER INTERNATIONAL INC  
Form 6-K  
January 13, 2010

FORM 6-K

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

Report of Foreign Private Issuer  
Pursuant to Rule 13a-16 or 15d-16 of  
The Securities Exchange Act of 1934

For the month of January, 2010

(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 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 registrant in connection with Rule 12g3-2(b):

82-\_\_\_\_\_.)

N/A

Huaneng Power International, Inc.  
West Wing, Building C, Tianyin Mansion  
No. 2C Fuxingmennan Street  
Xicheng District  
Beijing, 100031 PRC

This Form 6-K consists of:

An announcement on power generation in 2009 of Huaneng Power International, Inc. (the "Registrant"), made by the Registrant on January 13, 2010.

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Document 1

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#### POWER GENERATION OF 2009

This announcement is made pursuant to Rules 13.09(1) and (2) of the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited.

Huaneng Power International, Inc. (the "Company") announces its power generation of 2009.

According to the Company's preliminary statistics, as of 31 December 2009, the Company's total domestic power generation on a consolidated basis amounted to 203.520 billion kWh, representing an increase of 10.23% over the same period last year. The increase in the Company's power generation was mainly due to power generation contributed by the Company's newly acquired generating plants and newly operating generating units.

The power generation of each of the Company's domestic power plants of 2009 was listed below (in billion kWh):

Domestic Power Plant	Power generation of 2009	Power generation of 2008	Change
Liaoning Province			
Dalian	8.386	9.102	-7.87%
Dandong	4.078	4.209	-3.11%
Yingkou	9.402	10.735	-12.42%
Yingkou Co-generation	0.123	—	—
Hebei Province			
Shang'an	11.824	9.299	27.15%
Gansu Province			
Pingliang	5.077	7.201	-29.50%
Beijing			
Beijing Co-generation	4.394	4.998*	-12.08%
Tianjin			
Yangliuqing Co-generation	6.007	6.793*	-11.57%
Shanxi Province			
Yushe	4.464	4.951	-9.84%
Shandong Province			
Dezhou	14.910	14.022	6.33%

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Jining	2.044	2.290	-10.74%
Xindian	3.345	4.241	-21.13%
Weihai	3.720	4.495	-17.24%
Rizhao Phase II	7.307	—	—
Henan Province			
Qinbei	12.510	10.514	18.98%

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Domestic Power Plant	Power generation of 2009	Power generation of 2008	Change
Jiangsu Province			
Nantong	7.816	8.329	-6.16%
Nanjing	3.654	3.469	5.33%
Taicang	11.537	10.389	11.05%
Huaiyin	7.293	7.458	-2.21%
Jinling Combined-cycle	2.273	2.204	3.13%
Qidong Wind Power	0.153	—	—
Shanghai			
Shidongkou First	6.847	6.757	1.33%
Shidongkou Second	6.691	7.534	-11.19%
Shanghai Combined-cycle	0.847	0.598	41.64%
Chongqing			
Luohuang	10.843	11.506	-5.76%
Zhejiang Province			
Changxing	1.585	1.516	4.55%
Yuhuan	19.913	19.442	2.42%
Hunan Province			
Yueyang	5.225	6.016	-13.15%
Jiangxi Province			
Jinggangshan	3.194	3.202	-0.25%
Fujian Province			
Fuzhou	8.511	8.129	4.70%
Guangdong Province			
Shantou Coal-fired	6.198	7.020	-11.71%
Haimen	3.349	—	—
Total	203.520	184.628	10.23%

\* Beijing Co-generation Power Plant and Yangliuqing Co-generation Power Plant were newly acquired generation plants by the Company in 2009. The figures relating to power generation for these two power plants for 2008 included herein is for reference only. These figures were not included in the aggregate power generation of the Company for 2008.

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For 2009, the power generation of Tuas Power Limited in Singapore amounted to 24.3% of that of the power market in Singapore, basically the same market share to that of last year.

By Order of the Board

Gu Biquan

Company Secretary

As at the date of this announcement, the directors of the Company are:

Cao Peixi  
(Executive Director)

Huang Long  
(Non-executive Director)

Wu Dawei  
(Non-executive Director)

Huang Jian  
(Non-executive Director)

Liu Guoyue  
(Executive Director)

Fan Xiaxia  
(Executive Director)

Shan Qunying  
(Non-executive Director)

Xu Zujian  
(Non-executive Director)

Huang Mingyuan  
(Non-executive Director)

Liu Shuyuan  
(Non-executive Director)

Liu Jipeng  
(Independent Non-executive Director)

Yu Ning  
(Independent Non-executive Director)

Shao Shiwei  
(Independent Non-executive Director)

Zheng Jianchao  
(Independent Non-executive Director)

Wu Liansheng  
(Independent Non-executive Director)

Beijing, the PRC  
13 January 2009

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SIGNATURE

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 under-signed, thereunto duly authorized.

HUANENG POWER INTERNATIONAL, INC.

By:	/s/ Gu Biquan
Name:	Gu Biquan
Title:	Company Secretary

Date: January 13, 2010

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