

HUANENG POWER INTERNATIONAL INC  
Form 6-K  
July 15, 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 July, 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<br>20-F | <input checked="" type="checkbox"/> | Form<br>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 | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |
|-----|--------------------------|----|-------------------------------------|

(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.  
Huaneng Building,  
4 Fuxingmennei Street,  
Xicheng District,  
Beijing, 100031 PRC

This Form 6-K consists of:

An announcement on power generation for the first half of 2010 of Huaneng Power International, Inc. (the “Registrant”), made by the Registrant on July 15, 2010.

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POWER GENERATION INCREASES 38.01%  
FOR THE FIRST HALF YEAR OF 2010

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") announced its power generation for the first half of 2010.

According to the Company's preliminary statistics, as of 30 June 2010, the Company's total domestic power generation within China on consolidated basis amounted to 118.836 billion kWh, representing an increase of 38.01% over the same period last year. Accumulated on-grid electricity sold amounted to 112.014 billion kWh. The increase in power generation of the Company was mainly attributable to the following reasons:

1. the Company has increased its sales efforts, thereby grasping the growth trend of the national economy in 2010 and the favourable conditions for substantial increase in the national electricity demand, expanding various marketing channels and increasing power generation;
  2. under the impact of the global financial crisis, the national electricity demand for the first half year of 2009 was depressed. The base number of the power generation was relatively lower, resulting in a relatively higher growth in 2010 as compared to the same period of last year; and
  3. the electricity generation contributable by the newly operating generating units and the
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newly acquired power plants during the second half year of 2009.

The power generation/on-grid electricity sold by each of the Company's domestic power plants in the first half of 2010 are listed below (in billion kWh):

| Domestic Power Plant      | Power generation for the first half year of 2010 | Power generation for the first half year of 2009 | Change  | On-grid electricity sold for the first half year of 2010 |
|---------------------------|--|--|---------|--|
| Liaoning Province         |  |  |         |  |
| Dalian                    | 4.160  | 3.739  | 11.26%  | 3.968  |
| Dandong                   | 1.927  | 1.962  | -1.78%  | 1.835  |
| Yingkou                   | 4.918  | 4.394  | 11.93%  | 4.624  |
| Yingkou Co-generation     | 1.811  | —  | —       | 1.684  |
| Inner Mongolia            |  |  |         |  |
| Huade Wind Power          | 0.074  | —  | —       | 0.073  |
| Hebei Province            |  |  |         |  |
| Shang'an                  | 6.564  | 5.925  | 10.78%  | 6.174  |
| Gansu Province            |  |  |         |  |
| Pingliang                 | 4.017  | 2.398  | 67.51%  | 3.804  |
| Beijing                   |  |  |         |  |
| Beijing Co-generation     | 2.312  | 1.963*   | 17.78%  | 2.033  |
| Tianjin                   |  |  |         |  |
| Yangliuqing Co-generation | 3.045  | 2.760*   | 10.33%  | 2.832  |
| Shanxi Province           |  |  |         |  |
| Yushe                     | 2.490  | 2.095  | 18.85%  | 2.300  |
| Shandong Province         |  |  |         |  |
| Dezhou                    | 7.610  | 6.678  | 13.96%  | 7.179  |
| Jining                    | 2.495  | 1.082  | 130.59% | 2.313  |
| Xindian                   | 1.645  | 1.723  | -4.53%  | 1.548  |
| Weihai                    | 1.903  | 1.684  | 13.00%  | 1.791  |
| Rizhao Phase II           | 3.771  | 2.989  | 26.16%  | 3.585  |
| Henan Province            |  |  |         |  |
| Qinbei                    | 6.673  | 5.693  | 17.21%  | 6.312  |



|                            |         |        |         |         |
|----------------------------|---------|--------|---------|---------|
| Jiangsu Province           |         |        |         |         |
| Nantong                    | 4.057   | 3.382  | 19.96%  | 3.881   |
| Nanjing                    | 1.796   | 1.548  | 16.02%  | 1.695   |
| Taicang                    | 5.849   | 5.518  | 6.00%   | 5.508   |
| Huaiyin                    | 3.981   | 3.177  | 25.31%  | 3.749   |
| Jinling                    |         |        |         |         |
| (Combined-cycle)           | 0.941   | 1.314  | -28.39% | 0.919   |
| Jinling (Coal-fired)       | 3.297   | —      | —       | 3.135   |
| Qidong Wind Power          | 0.114   | 0.089* | 28.09%  | 0.112   |
| Shanghai                   |         |        |         |         |
| Shidongkou First           | 3.720   | 3.329  | 11.75%  | 3.504   |
| Shidongkou Second          | 3.041   | 3.166  | -3.95%  | 2.922   |
| Shanghai<br>Combined-cycle | 0.533   | 0.116  | 359.48% | 0.520   |
| Chongqing                  |         |        |         |         |
| Luohuang                   | 6.301   | 4.639  | 35.83%  | 5.800   |
| Zhejiang Province          |         |        |         |         |
| Changxing                  | 0.866   | 0.692  | 25.14%  | 0.797   |
| Yuhuan                     | 10.338  | 8.890  | 16.29%  | 9.851   |
| Hunan province             |         |        |         |         |
| Yueyang                    | 2.697   | 1.897  | 42.17%  | 2.509   |
| Jiangxi Province           |         |        |         |         |
| Jinggangshan               | 3.772   | 1.274  | 196.08% | 3.593   |
| Fujian Province            |         |        |         |         |
| Fuzhou                     | 2.844   | 3.770  | -24.56% | 2.707   |
| Guangdong Province         |         |        |         |         |
| Shantou Coal-fired         | 3.649   | 3.033  | 20.31%  | 3.413   |
| Haimen                     | 5.625   | —      | —       | 5.344   |
| Total                      | 118.836 | 86.107 | 38.01%  | 112.014 |

\*The figures relating to the power generation of Beijing Co-generation Power Plant, Yangliuqing Co-generation Power Plant and Qidong Wind Power Plant for the first half year of 2009 are included for reference only and were not accounted for in the Company's total power generation for the first half year of 2009.



The accumulated power generation of Tuas Power Limited in Singapore for the first half year of 2010 accounted for a market share of 24.5% in Singapore, representing an increase of 0.4 percentage points as compared to 24.1% of the same period 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  
15 July 2010

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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: July 15, 2010