

This Form 6-K consists of:

An announcement on estimated loss for 2008 of Huaneng Power International, Inc. (the “Registrant”), made by the Registrant on January 17, 2009.

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 19, 2009

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(a Sino-foreign joint stock limited company incorporated in the People's Republic of China)
(Stock Code: 902)

Announcement regarding an Estimated Loss in 2008

This announcement is made by Huaneng Power International, Inc. (the "Company") pursuant to the requirements of Rules 13.09(1) and 13.09(2) of the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited to provide shareholders of the Company and the public with the financial information of the Company. This announcement is also disseminated on the Shanghai Stock Exchange simultaneously. The estimate contained in this announcement is only a preliminary estimate of the Company and has not been audited by the Company's certified public accountants. Detailed financial information of the Company will be disclosed in the 2008 Annual Report of the Company. Potential investors and shareholders of the Company should exercise caution when dealing in the shares of the Company.

The Company and all the members of the Board of Directors hereby confirm the truthfulness, accuracy and completeness of the contents of this announcement and jointly accept full responsibility for any false representation, misleading statement or material omission herein contained.

I. Estimated results for the reporting period

1. Period to which the estimated results applies: From 1 January 2008 to 31 December 2008;

2. Estimated results: Based on a preliminary estimate by the Company, it is expected that the Company may record an unaudited loss for the period from 1 January 2008 to 31 December 2008;

3. The estimated results have not been audited or reviewed by certified public accountants.

II. Results of the corresponding period last year (From 1 January 2007 to 31 December 2007)

1. Net profit attributable to the Company's shareholders: RMB5,997,058,661 based on the PRC Accounting Standards; approximately RMB6,161.127 million based on the International Financial Reporting Standards.

2. Earnings per share (based on the net profit attributable to the Company's shareholders): RMB0.50 based on the PRC Accounting Standards; RMB0.51 based on the International Financial Reporting Standards.

III. Reasons for the change in the results

The loss was mainly due to the reason that prices of fuel coal increased drastically in 2008, such that the average fuel coal price in 2008 was significantly higher than that in 2007. Although power tariffs had been adjusted upwards two times during the period, the increments were still unable to offset the rise in fuel costs. The Company estimates that it will suffer a loss in the year of 2008.

IV. Risk Warning

Detailed financial information will be disclosed in the 2008 Annual Report of the Company. Potential investors and shareholders of the Company should exercise caution when dealing in the shares of the Company.

By Order of the Board
Gu Biquan
Company Secretary

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

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| Cao Peixi (Executive Director) | Liu Jipeng (Independent Non-executive Director) |
| Huang Long (Non-executive Director) | Yu Ning (Independent Non-executive Director) |
| Wu Dawei (Non-executive Director) | Shao Shiwei (Independent Non-executive Director) |
| Huang Jian (Non-executive Director) | Zheng Jianchao (Independent Non-executive Director) |
| Liu Guoyue (Executive Director) | Wu Liansheng (Independent Non-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) | |

Beijing, the PRC
17 January 2009

