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華能國際電力股份有限公司

HUANENG POWER INTERNATIONAL, INC.

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

(Stock Code: 902)

ANNOUNCEMENT ON ELECTRICITY SOLD WITHIN CHINA FOR 2021

This announcement is made by Huaneng Power International, Inc. (the “**Company**”) pursuant to Rule 13.10B of the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited.

According to the Company, in the fourth quarter of 2021, the Company's total electricity sold by power plants within China on consolidated basis amounted to 107.050 billion KWh, representing an increase of 2.95% over the same period of 2020. In 2021, the total electricity sold by power plants of the Company within China on consolidated basis amounted to 430.165 billion KWh, representing an increase of 13.23% over the same period of 2020. In 2021, the Company's average on-grid electricity settlement price for its power plants within China amounted to RMB431.88 per MWh, representing an increase of 4.41% over the same period of 2020. In 2021, the percentage of Company's market based electricity sold reached 61.63%, representing an increase of 3.3 percentage points over the same period of 2020.

The increase in the Company's electricity was mainly attributable to the following factors:

1. In 2021, the sustained heavy demand for electricity nation-wide prompted significant increase in power generation. The power plants of the Company in areas such as Chongqing, Guangdong, Zhejiang, Shanghai, Fujian, Hunan, Jiangsu, Gansu and Hubei saw a relatively large growth in power generation;
2. The output of hydropower plants was less than expected, while thermal power units with a greater percentage of installed capacity of the Company sustained a rapid growth in power generation. In addition, during the peak seasons in winter, the thermal power load of the Company maintained at a high level, which further promoted the growth of power generation; and
3. The Company continued to promote green and low-carbon transformation, which led to the fast growth in new energy generation year on year.

The electricity sold (in 100 million kWh) by the Company in 2021, by regions, is listed below:

| Type/Region | Electricity Sold in 2021 | | | |
|------------------------------|--------------------------|---------------------|---------------------|---------------------|
| | October to December | Year-on-Year Change | January to December | Year-on-Year Change |
| Coal-fired | 938.73 | 0.93% | 3,785.28 | 10.81% |
| Combined Cycle | 64.93 | 3.68% | 268.67 | 26.24% |
| Wind-power | 55.01 | 41.99% | 198.67 | 46.78% |
| PV | 8.63 | 44.72% | 34.08 | 46.90% |
| Heilongjiang Province | 28.00 | -20.75% | 128.46 | -2.96% |
| Coal-fired | 23.01 | -26.82% | 113.89 | -5.00% |
| Wind-power | 4.68 | 30.87% | 13.27 | 18.83% |
| PV | 0.32 | 0.26% | 1.30 | -2.15% |
| Jilin Province | 22.58 | -9.03% | 88.05 | -15.21% |
| Coal-fired | 17.76 | -12.41% | 70.13 | -21.03% |
| Wind-power | 3.20 | -5.03% | 11.45 | 5.66% |
| Hydro-power | 0.16 | -17.21% | 0.70 | -6.60% |
| PV | 0.59 | 11.08% | 2.46 | 72.08% |
| Biomass power | 0.87 | 92.53% | 3.31 | 63.89% |
| Liaoning Province | 36.44 | -25.24% | 183.70 | 5.24% |
| Coal-fired | 34.86 | -85.10% | 177.77 | 5.30% |
| Wind-power | 1.16 | 21.54% | 4.15 | 11.38% |
| Hydro-power | 0.08 | 235.49% | 0.29 | -28.41% |
| PV | 0.34 | -9.80% | 1.48 | -6.80% |
| Inner Mongolia | 1.98 | 221.45% | 5.53 | 165.66% |
| Wind-power | 1.98 | 221.45% | 5.53 | 165.66% |
| Hebei Province | 25.84 | -20.42% | 106.08 | -6.64% |
| Coal-fired | 23.22 | -25.20% | 99.76 | -8.16% |
| Wind-power | 1.89 | 43.28% | 5.11 | 14.58% |
| PV | 0.74 | 520.40% | 1.22 | 120.78% |
| Gansu Province | 38.58 | 13.23% | 143.82 | 15.09% |
| Coal-fired | 32.38 | 10.11% | 119.12 | 16.79% |
| Wind-power | 6.20 | 32.91% | 24.70 | 7.53% |
| Ningxia | 0.03 | -0.36% | 0.22 | -4.02% |
| PV | 0.03 | -0.36% | 0.22 | -4.02% |
| Beijing | 20.18 | -14.18% | 84.84 | 3.25% |
| Coal-fired | 6.47 | 163.70% | 12.94 | 48.71% |
| Combined Cycle | 13.71 | -34.90% | 71.90 | -2.14% |

| Type/Region | Electricity Sold in 2021 | | | |
|--------------------------|--------------------------|---------------------|---------------------|---------------------|
| | October to December | Year-on-Year Change | January to December | Year-on-Year Change |
| Tianjin | 17.93 | -9.15% | 65.09 | 2.70% |
| Coal-fired | 12.42 | -13.04% | 49.41 | 4.23% |
| Combined Cycle | 5.49 | 1.21% | 15.54 | -1.78% |
| PV | 0.02 | -28.17% | 0.13 | -8.14% |
| Shanxi Province | 25.38 | -18.11% | 94.91 | -6.33% |
| Coal-fired | 13.81 | -31.77% | 63.19 | -15.31% |
| Combined Cycle | 8.10 | -11.57% | 19.97 | -5.70% |
| Wind-power | 1.48 | 2392.69% | 3.40 | 5630.21% |
| PV | 1.99 | 29.78% | 8.36 | 52.53% |
| Shandong Province | 220.31 | -1.03% | 818.79 | 7.41% |
| Coal-fired | 214.06 | -2.24% | 796.87 | 6.30% |
| Wind-power | 4.19 | 58.15% | 13.93 | 83.29% |
| PV | 1.20 | 18.27% | 5.20 | 3.29% |
| Biomass power | 0.87 | —— | 2.78 | —— |
| Henan Province | 49.85 | -4.30% | 217.04 | 8.79% |
| Coal-fired | 41.31 | -13.54% | 180.39 | -1.36% |
| Combined Cycle | 0.08 | -75.53% | 2.18 | -63.30% |
| Wind-power | 8.41 | 113.48% | 34.23 | 227.37% |
| PV | 0.06 | 31.92% | 0.24 | 5.78% |
| Jiangsu Province | 109.36 | 20.60% | 427.17 | 19.96% |
| Coal-fired | 83.13 | 13.44% | 323.35 | 11.33% |
| Combined Cycle | 15.03 | 64.50% | 61.09 | 55.94% |
| Wind-power | 10.59 | 36.43% | 40.10 | 61.84% |
| PV | 0.62 | 21.42% | 2.64 | 56.05% |
| Shanghai | 51.35 | 10.90% | 201.90 | 22.45% |
| Coal-fired | 48.74 | 12.69% | 188.74 | 25.53% |
| Combined Cycle | 2.54 | -14.99% | 12.86 | -10.71% |
| PV | 0.07 | 8.38% | 0.30 | 142.29% |
| Chongqing | 35.31 | 41.33% | 130.64 | 49.96% |
| Coal-fired | 27.39 | 27.02% | 102.74 | 44.20% |
| Combined Cycle | 7.38 | 148.04% | 25.25 | 86.96% |
| Wind-power | 0.54 | 21.17% | 2.64 | 11.94% |

| Type/Region | Electricity Sold in 2021 | | | |
|---------------------------|--------------------------|---------------------|---------------------|---------------------|
| | October to December | Year-on-Year Change | January to December | Year-on-Year Change |
| Zhejiang Province | 73.60 | 25.40% | 316.49 | 31.21% |
| Coal-fired | 71.60 | 26.64% | 305.26 | 30.72% |
| Combined Cycle | 1.59 | -22.87% | 10.39 | 45.34% |
| Wind-power | 0.28 | —— | 0.28 | —— |
| PV | 0.13 | 38.69% | 0.55 | 4.20% |
| Hubei Province | 44.28 | 7.05% | 165.74 | 14.73% |
| Coal-fired | 42.27 | 7.04% | 156.32 | 15.19% |
| Wind-power | 1.77 | 36.58% | 6.56 | 20.99% |
| Hydro-power | 0.19 | -64.10% | 2.64 | -15.17% |
| PV | 0.05 | 20.33% | 0.22 | 1.81% |
| Hunan Province | 31.63 | 16.37% | 117.17 | 22.14% |
| Coal-fired | 29.46 | 15.63% | 107.75 | 24.36% |
| Wind-power | 1.39 | 12.10% | 6.20 | 7.07% |
| Hydro-power | 0.68 | 76.37% | 2.75 | -10.51% |
| PV | 0.10 | 25.37% | 0.47 | 9.50% |
| Jiangxi Province | 60.22 | -0.52% | 223.13 | 7.97% |
| Coal-fired | 56.89 | -1.80% | 210.25 | 7.01% |
| Wind-power | 2.22 | 19.09% | 8.57 | 6.38% |
| PV | 1.11 | 49.19% | 4.30 | 102.29% |
| Anhui Province | 18.96 | 3.24% | 61.35 | 13.14% |
| Coal-fired | 16.82 | 3.35% | 51.96 | 6.34% |
| Wind-power | 2.04 | 9.85% | 8.07 | 90.08% |
| Hydro-power | 0.10 | -57.35% | 1.32 | 18.05% |
| Fujian Province | 45.86 | 11.63% | 201.16 | 22.79% |
| Coal-fired | 45.83 | 11.64% | 201.04 | 22.81% |
| PV | 0.02 | -9.20% | 0.12 | 3.51% |
| Guangdong Province | 67.48 | 7.91% | 311.97 | 34.84% |
| Coal-fired | 58.53 | 5.86% | 271.28 | 25.35% |
| Combined Cycle | 8.89 | 23.82% | 40.44 | 174.92% |
| PV | 0.06 | -1.11% | 0.25 | 6.26% |
| Guangxi | 2.03 | -8.28% | 7.47 | 9.82% |
| Combined Cycle | 1.09 | -9.00% | 4.35 | 2.06% |
| Wind-power | 0.93 | -7.44% | 3.13 | 22.82% |

| Type/Region | Electricity Sold in 2021 | | | |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|
| | October to December | Year-on-Year Change | January to December | Year-on-Year Change |
| Yunnan Province | 20.16 | -2.81% | 82.39 | 13.60% |
| Coal-fired | 18.96 | -2.59% | 77.56 | 16.32% |
| Wind-power | 1.16 | -1.06% | 4.55 | -17.19% |
| Hydro-power | 0.04 | -63.71% | 0.28 | -20.01% |
| Guizhou Province | 1.43 | 145.73% | 5.41 | 86.74% |
| Wind-power | 0.46 | 11.71% | 1.85 | -15.18% |
| PV | 0.98 | 460.04% | 3.55 | 399.97% |
| Hainan Province | 21.72 | 11.43% | 113.12 | 2.26% |
| Coal-fired | 19.82 | 14.98% | 105.54 | 0.87% |
| Combined Cycle | 1.02 | -7.58% | 4.70 | 47.11% |
| Wind-power | 0.46 | -16.16% | 0.94 | -14.89% |
| Hydro-power | 0.21 | -51.00% | 0.88 | 29.71% |
| PV | 0.20 | 18.26% | 1.06 | 5.28% |
| Total | 1,070.50 | 2.95% | 4,301.65 | 13.23% |

For the fourth quarter of 2021, the power generation of Tuas Power Limited in Singapore, which is wholly-owned by the Company, accounted for a market share of 17.1% in Singapore, representing a decrease of 4.1 percentage point over the same period of 2020. The relevant market share reached to 19.2% in terms of total power generation in 2021, representing a decrease of 2.2 percentage points over the same period of 2020.

The Company's new projects which have commenced operation in the fourth quarter of 2021 are as follows:

| Type | (in MW) | |
|---------------|-------------------------------|---------------------------------|
| | controlled installed capacity | equity-based installed capacity |
| Thermal power | 2,000 | 1,000 |
| Wind-power | 1,350.3 | 1,152.3 |
| PV | 331 | 287.8 |
| Total | 3,681.3 | 2,440.1 |

In addition, the installed capacity of some of the power plants in which the Company has equity interests changed in the fourth quarter of 2021.

Based on the above, as of 31 December 2021, the Company had a controlled installed generation capacity of 118,695MW and equity-based installed generation capacity of 103,875MW.

By order of the Board
Huaneng Power International, Inc.
Huang Chaoquan
Company Secretary

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

Zhao Keyu (*Executive Director*)

Zhao Ping (*Executive Director*)

Huang Jian (*Non-executive Director*)

Wang Kui (*Non-executive Director*)

Lu Fei (*Non-executive Director*)

Teng Yu (*Non-executive Director*)

Mi Dabin (*Non-executive Director*)

Cheng Heng (*Non-executive Director*)

Li Haifeng (*Non-executive Director*)

Lin Chong (*Non-executive Director*)

Xu Mengzhou (*Independent Non-executive Director*)

Liu Jizhen (*Independent Non-executive Director*)

Xu Haifeng (*Independent Non-executive Director*)

Zhang Xianzhi (*Independent Non-executive Director*)

Xia Qing (*Independent Non-executive Director*)

Beijing, the PRC

15 January 2022