

# ANNEX 2 – CHINESE NUCLEAR REACTOR FLEET

Table 25 · Chinese Nuclear Reactors in Operation (as of 1 July 2026)

| Reactor         | Model                  | Net Capacity (MWe) | Construction Start | Grid Connection | Commercial Operation |
|-----------------|------------------------|--------------------|--------------------|-----------------|----------------------|
| Changjiang-1    | CNP-600                | 601                | 25/04/2010         | 07/11/2015      | 25/12/2015           |
| Changjiang-2    | CNP-600                | 601                | 21/11/2010         | 20/06/2016      | 12/08/2016           |
| Daya Bay-1      | M310                   | 986                | 07/08/1987         | 31/08/1993      | 01/02/1994           |
| Daya Bay-2      | M310                   | 986                | 07/04/1988         | 07/02/1994      | 06/05/1994           |
| Fangchenggang-1 | CPR-1000               | 1000               | 30/07/2010         | 25/10/2015      | 01/01/2016           |
| Fangchenggang-2 | CPR-1000               | 1000               | 23/12/2010         | 15/07/2016      | 01/10/2016           |
| Fangchenggang-3 | HPR1000 <sup>(1)</sup> | 1000               | 24/12/2015         | 10/01/2023      | 25/03/2023           |
| Fangchenggang-4 | HPR1000                | 1000               | 23/12/2016         | 09/04/2024      | 25/05/2024           |
| Fangjiashan-1   | CPR-1000               | 1012               | 26/12/2008         | 04/11/2014      | 15/12/2014           |
| Fangjiashan-2   | CPR-1000               | 1012               | 17/07/2009         | 12/01/2015      | 12/02/2015           |
| Fuqing-1        | CPR-1000*              | 1000               | 21/11/2008         | 20/08/2014      | 22/11/2014           |
| Fuqing-2        | CPR-1000*              | 1000               | 17/06/2009         | 06/08/2015      | 16/10/2015           |
| Fuqing-3        | CPR-1000*              | 1000               | 31/12/2010         | 07/09/2016      | 24/10/2016           |
| Fuqing-4        | CPR-1000*              | 1000               | 17/11/2012         | 29/07/2017      | 17/09/2017           |
| Fuqing-5        | HPR1000                | 1075               | 07/05/2015         | 27/11/2020      | 30/01/2021           |
| Fuqing-6        | HPR1000                | 1075               | 22/12/2015         | 01/01/2022      | 25/03/2022           |
| Haiyang-1       | AP1000                 | 1170               | 24/09/2009         | 17/08/2018      | 22/10/2018           |
| Haiyang-2       | AP1000                 | 1170               | 20/06/2010         | 13/10/2018      | 09/01/2019           |
| Hongyanhe-1     | CPR-1000               | 1061               | 18/08/2007         | 17/02/2013      | 06/06/2013           |
| Hongyanhe-2     | CPR-1000               | 1061               | 28/03/2008         | 23/11/2013      | 13/05/2014           |
| Hongyanhe-3     | CPR-1000               | 1061               | 07/03/2009         | 23/03/2015      | 16/08/2015           |
| Hongyanhe-4     | CPR-1000               | 1061               | 15/08/2009         | 01/04/2016      | 08/06/2016           |
| Hongyanhe-5     | ACPR-1000              | 1061               | 29/03/2015         | 25/06/2021      | 31/07/2021           |
| Hongyanhe-6     | ACPR-1000              | 1061               | 24/07/2015         | 02/05/2022      | 23/06/2022           |
| Ling Ao-1       | M310                   | 950                | 15/05/1997         | 26/02/2002      | 28/05/2002           |
| Ling Ao-2       | M310                   | 950                | 28/11/1997         | 14/09/2002      | 08/01/2003           |
| Ling Ao-3       | CPR-1000               | 1007               | 15/12/2005         | 15/07/2010      | 15/09/2010           |
| Ling Ao-4       | CPR-1000               | 1007               | 15/06/2006         | 03/05/2011      | 07/08/2011           |
| Ningde-1        | CPR-1000               | 1018               | 18/02/2008         | 28/12/2012      | 15/04/2013           |
| Ningde-2        | CPR-1000               | 1018               | 12/11/2008         | 04/01/2014      | 04/05/2014           |
| Ningde-3        | CPR-1000               | 1018               | 08/01/2010         | 21/03/2015      | 10/06/2015           |
| Ningde-4        | CPR-1000               | 1018               | 29/09/2010         | 29/03/2016      | 21/07/2016           |
| Qinshan-1       | CNP-300                | 326                | 20/03/1985         | 15/12/1991      | 01/04/1994           |

| Reactor                                             | Model       | Net Capacity (MWe) | Construction Start        | Grid Connection            | Commercial Operation      |
|-----------------------------------------------------|-------------|--------------------|---------------------------|----------------------------|---------------------------|
| Qinshan 2-1                                         | CNP-600     | 623                | 02/06/1996                | 06/02/2002                 | 15/04/2002                |
| Qinshan 2-2                                         | CNP-600     | 623                | 01/04/1997                | 11/03/2004                 | 03/05/2004                |
| Qinshan 2-3                                         | CNP-600     | 623                | 28/04/2006                | 01/08/2010                 | 05/10/2010                |
| Qinshan 2-4                                         | CNP-600     | 623                | 28/01/2007                | 25/11/2011                 | 30/12/2011                |
| Qinshan 3-1                                         | CANDU 6     | 677                | 08/06/1998                | 19/11/2002                 | 31/12/2002                |
| Qinshan 3-2                                         | CANDU 6     | 677                | 25/09/1998                | 12/06/2003                 | 24/07/2003                |
| Sanao-1                                             | HPR1000     | 1117               | 31/12/2020                | 12/03/2026                 |                           |
| Sanmen-1                                            | AP1000      | 1157               | 29/03/2009 <sup>(2)</sup> | 30/06/2018                 | 21/09/2018                |
| Sanmen-2                                            | AP1000      | 1157               | 15/12/2009                | 24/08/2018                 | 05/11/2018                |
| Shidao Bay 1-1 <sup>(3)</sup>                       | HTR-PM      | 75 <sup>(3)</sup>  | 09/12/2012                | 20/12/2021                 | 06/12/2023                |
| Shidao Bay 1-2 <sup>(3)</sup>                       | HTR-PM      | 75 <sup>(3)</sup>  | 09/12/2012                | 09/2022 <sup>(4)</sup>     | 06/12/2023                |
| Shidaowan Guohe One-1 <sup>(5)</sup>                | CAP1400     | 1400               | 06/04/2019 <sup>(5)</sup> | 20/09/2024 <sup>(5)</sup>  | 16/12/2024 <sup>(5)</sup> |
| Shidaowan Guohe One-2 <sup>(5)</sup>                | CAP1400     | 1400               | 02/11/2019 <sup>(5)</sup> | Summer 2025 <sup>(6)</sup> | ?                         |
| Taipingling-1 <sup>(7)</sup>                        | HPR1000     | 1116               | 26/12/2019                | 13/02/2026                 | 19/04/2026                |
| Taishan-1                                           | EPR-1750    | 1660               | 28/10/2009 <sup>(8)</sup> | 29/06/2018                 | 13/12/2018                |
| Taishan-2                                           | EPR-1750    | 1660               | 15/04/2010                | 23/06/2019                 | 07/09/2019                |
| Tianwan-1                                           | VVER V-428  | 1000               | 20/10/1999                | 12/05/2006                 | 17/05/2007                |
| Tianwan-2                                           | VVER V-428  | 1000               | 20/10/2000 <sup>(9)</sup> | 14/05/2007                 | 16/08/2007                |
| Tianwan-3                                           | VVER V-428M | 1060               | 27/12/2012                | 30/12/2017                 | 14/02/2018                |
| Tianwan-4                                           | VVER V-428M | 1060               | 27/09/2013                | 27/10/2018                 | 22/12/2018                |
| Tianwan-5                                           | ACPR-1000*  | 1060               | 27/12/2015                | 08/08/2020                 | 08/09/2020                |
| Tianwan-6                                           | ACPR-1000*  | 1060               | 07/09/2016                | 11/05/2021                 | 02/06/2021                |
| Yangjiang-1                                         | CPR-1000    | 1000               | 16/12/2008                | 31/12/2013                 | 25/03/2014                |
| Yangjiang-2                                         | CPR-1000    | 1000               | 04/06/2009                | 10/03/2015                 | 05/06/2015                |
| Yangjiang-3                                         | CPR-1000    | 1000               | 15/11/2010                | 18/10/2015                 | 01/01/2016                |
| Yangjiang-4                                         | CPR-1000    | 1000               | 17/11/2012                | 08/01/2017                 | 15/03/2017                |
| Yangjiang-5                                         | ACPR-1000   | 1000               | 18/09/2013                | 23/05/2018                 | 12/07/2018                |
| Yangjiang-6                                         | ACPR-1000   | 1000               | 23/12/2013                | 29/06/2019                 | 24/07/2019                |
| Zhangzhou-1                                         | HPR1000     | 1126               | 16/10/2019                | 28/11/2024                 | 01/01/2025                |
| Zhangzhou-2                                         | HPR1000     | 1126               | 04/09/2020                | 22/11/2025                 | 01/01/2026                |
| Total Reactors in Operation: 63 Reactors / 61.5 GWe |             |                    |                           |                            |                           |

Sources: Various, compiled by WNISR, mainly based on IAEA-PRIS, with WNA, 2026

## Notes

- All information on this table from IAEA-PRIS database as of 1 July 2026, unless otherwise referenced.
- Net capacity refers to the Reference Unit Power (net) as of 1 July 2026 when available.
- \*According to the World Nuclear Association (WNA).

## References

(1) - HPR1000 or Hualong One.

(2) - Original construction start date from Chinas' Fifth Report to the Convention on Nuclear Safety; see Government of China, "The Fifth National Report Under the Convention on Nuclear Safety", May 2010, see [https://www.iaea.org/sites/default/files/china\\_5th-national-report-china.pdf](https://www.iaea.org/sites/default/files/china_5th-national-report-china.pdf), accessed 14 July 2025. Confirmed by other sources. Later revised to 19 April 2009.

(3) - The IAEA considers the two 100-MW modules as one reactor as they drive a single 200-MW turbine. WNISR counts each module as a separate reactor. Since 2023, the announced reference unit power for both is 150-MW and has been arbitrarily allocated as half to each of the reactors. Grid connection of the first unit of the twin reactors officially took place on 20 December 2021.

(4) - IAEA, “Approaches to and Preparation for the Operation of Small Modular Reactors”, December 2025, Table 8, see <https://www-pub.iaea.org/MTCD/Publications/PDF/TE-2110web.pdf>, accessed 21 April 2026.

(5) - Not listed in PRIS. They usually appear under the name “State Nuclear Power Demonstration Project” in Chinese documents.

Dates from Government of China, “The Tenth National Report for the Convention on Nuclear Safety (2022-2024)”, August 2025, see [https://www.iaea.org/sites/default/files/the-tenth-national-report-for-the-convention-on-nuclear-safety-2022-2024-en\\_cn2.pdf](https://www.iaea.org/sites/default/files/the-tenth-national-report-for-the-convention-on-nuclear-safety-2022-2024-en_cn2.pdf), accessed 28 July 2026.

(6) - According to official sources, the reactor has been providing electricity since the summer of 2025, although its grid connection was never announced. Fuel loading was approved in May 2025; see NNSA, “运行核电机组 — 更新日期: 2025年08月31日”, National Nuclear Safety Administration, as of 17 September 2025, see <https://nnsa.mee.gov.cn/ztzl/jgdxsjk/hdc/yxhdjz/>, accessed 17 September 2025.

(7) - Also referred to as “Huizhou”.

(8) - According to EDF, first concrete at Taishan-1 was poured in October 2009; see for example EDF, “EDF in the UK-Investor Workshop”, 17 December 2010, see [https://www.edf.fr/sites/groupe/files/contrib/groupe-edf/espaces-dedies/espace-finance-en/financial-data/investors-analysts/events/investor-day-workshops/investorworkshop\\_edfuk20101210\\_2\\_o.pdf](https://www.edf.fr/sites/groupe/files/contrib/groupe-edf/espaces-dedies/espace-finance-en/financial-data/investors-analysts/events/investor-day-workshops/investorworkshop_edfuk20101210_2_o.pdf), accessed 29 August 2025.

(9) - Original construction start date from China’s Third Report to the Convention on Nuclear Safety; see Government of China, “The Third National Report Under the Convention on Nuclear Safety”, August 2014, see [https://www.iaea.org/sites/default/files/china\\_3rd-national-report-china.pdf](https://www.iaea.org/sites/default/files/china_3rd-national-report-china.pdf), accessed 14 July 2025. Later revised to 20 September 2000.

Table 26 · Chinese Nuclear Reactors in LTO

| Reactor | Model | Net Capacity (MWe) | Construction Start | Grid Connection | Commercial Operation |
|---------|-------|--------------------|--------------------|-----------------|----------------------|
| CEFR    | BN-20 | 20                 | 10/05/2000         | 21/07/2011      |                      |

Source: IAEA-PRIS, 2022

Note: The China Experimental Fast Reactor (CEFR) is not primarily a power generating reactor. However, as it was connected to the grid in 2011 at about 40 percent power and achieved full power for 72 hours starting 18 December 2014,<sup>2980</sup> it is included in the WNISR. The IAEA has deleted the CEFR file from its PRIS database. Its current operational status is uncertain. The NNSA reported it as an operational research reactor in 2025 but did not specify whether it generates power to the grid.<sup>2981</sup> As long as there is no information on power generation, which determines the operational status, WNISR considers the CEFR in LTO (as of May 2023).

<sup>2980</sup> - *Xinhua*, “China Experimental Fast Reactor Runs at Full Capacity”, as released by *China Securities Journal* 19 December 2014, see [http://www.cs.com.cn/english/ei/201412/t20141219\\_4595461.html](http://www.cs.com.cn/english/ei/201412/t20141219_4595461.html), accessed 28 May 2018.

<sup>2981</sup> - NNSA, “中华人民共和国国家核安全局 2025年报”, June 2026, see [https://nnsa.mee.gov.cn/ztzl/haqbg/haqnb\\_1/202606/P020260610354595119054.pdf](https://nnsa.mee.gov.cn/ztzl/haqbg/haqnb_1/202606/P020260610354595119054.pdf), accessed 18 June 2026.