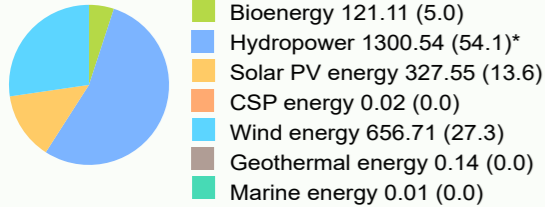


China • Renewable energy • Geothermal, Hydrogen, Marine, Solar, Wind

Gross electricity generation from renewable sources by 2021, TWh (%)



Total: 2405.54 (100)

Source: Renewable Energy Statistics 2023 © IRENA
* excluding pumped storage

Solar PV power plants over 150 MWe, MWe:

- 1 Tengger Desert, 1547.0
- 2 Datong Solar Park, 1000.0
- 3 Yanchi Solar Park, 1000.0
- 4 Longyangxia, 850.0
- 5 Qinghai Golmud, 500.0
- 6 Cixi Solar Park, 200.0
- 7 Gonghe Industrial Park Phase I, 200.0
- 8 JinChang (Gansu), JinKoSolar, 200.0
- 9 Tianjin Binhai, Xinyi Energy, 174.0
- 10 Huainan, Anhui Floating Solar Park, 150.0
- 11 Lu'an Jinzhai, Xinyi Energy, 150.0

Double flash type geothermal power plants over 1 MWe, MWe:

- 1 Yangbajain, 25.1
- 2 Langju, 2.1*
- 3 Nagqu, 1.0*

* temporarily ceased



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Major Cryogenic Liquid Hydrogen Plants:

- 1 Beijing, CALT

Under construction CSP Tower type with thermal storage plants over 1 MW, MW:

- 1 Golmud, 200.0
- 2 SunCan Dunhuang Phase II, 100.0
- 3 Hami, 50.0
- 4 Supcon Phase II, 50.0
- 5 Yumen Xinneng, 50.0

Key hydrogen fuel cell plants over 1.0 MW, MW:

- 1 Ynnovate Sanzheng Fine Chemicals (Yingkou), 2.0

Under construction CSP Parabolic type with thermal storage plants over 1 MW, MW:

- 1 Urat Middle Banner, 100.0
- 2 Delingha, 50.0
- 3 Rayspower Yumen, 50.0

Key Compressed Hydrogen Plants:

- 1 Caojing, Air Liquide-Praxair
- 2 Nanjing, Air Products
- 3 Chengdu, Air Products
- 4 Lianjiang (Fujian), Air Liquide
- 5 Caojing, Air Liquide
- 6 Caojing, Shaghai HIG
- 7 Jilin, Linde
- 8 Liaoyang, Air Liquide
- 9 Xuzhou, Linde
- 10 Zhangjiagang, Messer

CSP Tower type with thermal storage plants over 1 MW, MW:

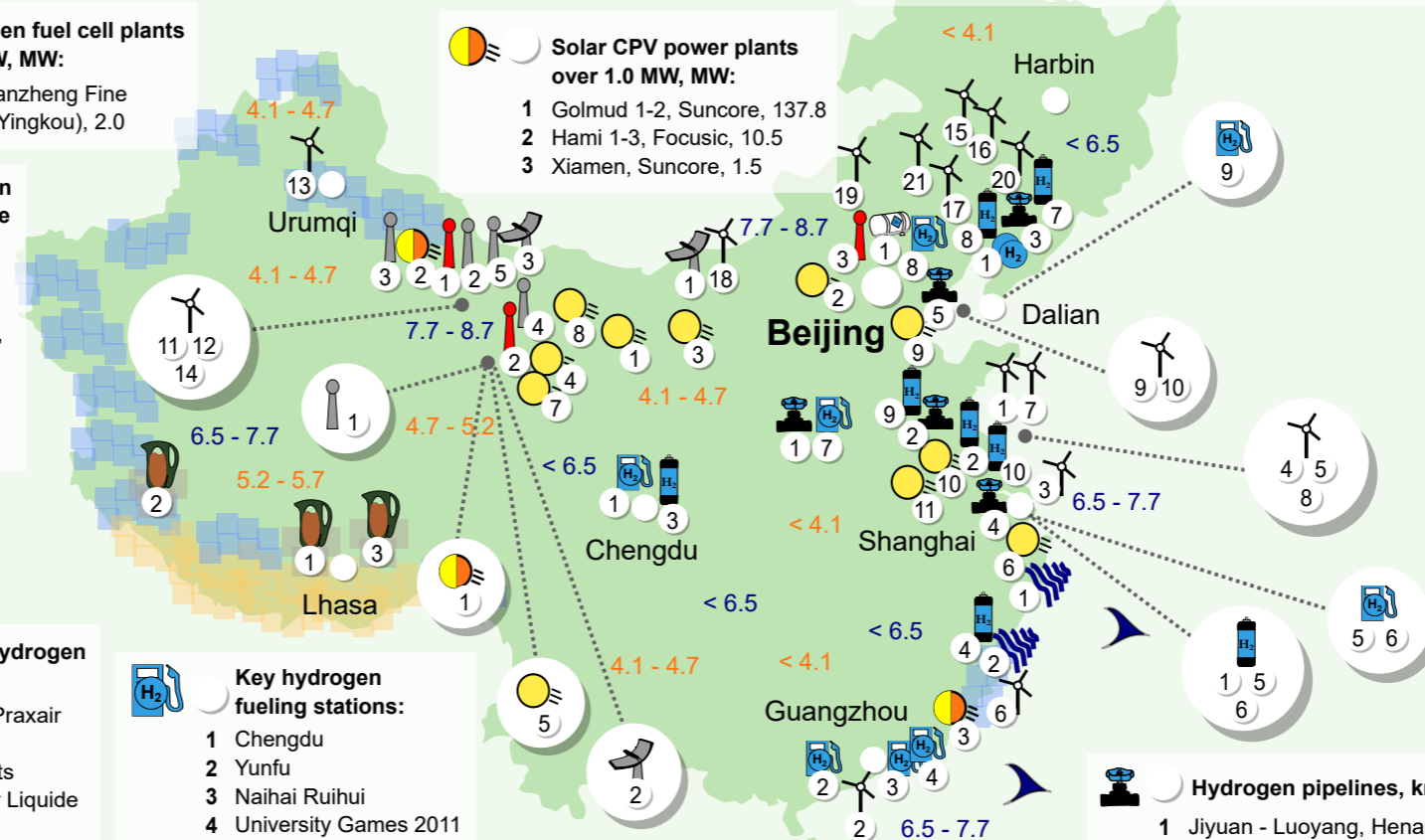
- 1 SunCan Dunhuang Phase I, 10.0
- 2 Supcon Phase I, 10.0
- 3 Dahan, 1.0

0.0 kWh/m²/d Global Horizontal Irradiation (GHI)
0.0 m/s Wind speed

High activity areas:

- The most common solar GHI intensity is 5.7 - 6.3 kWh/m² per day, distributed in the southwestern part of country in Tibet (Xizang) province, along the India, Nepal and Bhutan borderline.
- The most common wind speed is over 8.75 m/s at 50 m are distributed in southwestern part of Fujian province, some area in western part of Tibet (Xizang) and Xinjiang provinces.
- Avg wave power potential is 10 - 15 kW/m per year.

Source: Energydata.info; Wikipedia.



Major offshore wind parks over 300 MW, MW:

- 1 SPIC Binhai North H2, 400.0*
- 2 CGN Yangjiang Nanpeng Island, 400.0*
- 3 CGN Rudong Demo, 352.0
- 4 Dongtai Four H2, 302.4*
- 5 SPIC Jiangsu Dafeng H3, 302.4*
- 6 CGN Pingtan Island, 300.0*
- 7 Datang Jiangsu Binhai, 300.0*
- 8 Jiangsu Longyuan Chiang Sand H1, 300.0*
- 9 Laoting Bodhi Island, 300.0*
- 10 Tangshan Area 6, Phase II, 300.0*

* under construction

Major onshore wind parks over 300 MW, MW:

- 11 Gansu (Jiuquan), 7965.0
- 12 Anbei, 600.0
- 13 Dabancheng, 500.0
- 14 Gansu Guazhou Beidaqiao 4 & 6, 401.0
- 15 Xiangyang, 400.5
- 16 Tongyu, 400.0
- 17 Zhangdong (Zhangwu), 350.0
- 18 Bayannur Wulanyiligeng, 300.0
- 19 CGN Huitengliang, 300.0
- 20 Kaiyuan, 300.0
- 21 Tongliao Beiqinghe, 300.0

Key hydrogen fueling stations:

- 1 Chengdu
- 2 Yunfu
- 3 Naihai Ruihui
- 4 University Games 2011
- 5 Anting
- 6 TMEC station
- 7 Zhengzhou Yutong
- 8 Beijing Sinohytec
- 9 Dalian TongXin HRS

Tidal power plants over 1 MW, MW:

- 1 Jiangxia, 3.2
- 2 Xingfuyan, 1.3

Hydrogen pipelines, km:

- 1 Jiyuan - Luoyang, Henan, Petrochina, 25
- 2 Xuzhou, Linde
- 3 Liaoyang, Air Liquide
- 4 Shanghai, Air Liquide
- 5 Tianjin, Air Liquide