

China • Renewable energy • Bioenergy

Total installed renewable energy power capacity by 2022, GW (%)



Total: 1160.80 (100)

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

Key wood pellet plants over 100 000 t/y in 2013:

- 1 Linyi, Shandong Hongyi Biofuels
- 2 Guangzhou, Guangdong Bo'en Bioenergy
- 3 Yangzhong, Jiangsu Huafeng agr. Biotechn.
- 4 Taicang, Jiangsu Hengsen Bioenergy
- 5 Shenyang, Liaoning Xianhu
- 6 Feicheng, Shandong Xintiandi Bioenergy
- 7 Nanyang, Henan Sanli New Energy
- 8 Xuzhou, Jiangsu
- 9 Guangde, Anhui Dingliang Bioenergy
- 10 Foshan, Guangdong

Key biomass power plants over 45 MW, MW:

- 1 Zhanjiang, Guangdong, 100.0
- 2 Beijing Shougang, 60.0
- 3 Bayan Heilongjiang, 60.0
- 4 Longjiang Heilongjiang, 60.0
- 5 Kaidi Jiaohu, Jilin, 60.0
- 6 Ningxia Yuan Lin, 50.0
- 7 Jilin Lishu, Jilin, 50.0
- 8 Wangqing, Jilin, 50.0
- 9 Changchun (Nongan), Jilin, 50.0
- 10 Guantao, Hebei, 48.0
- 11 Yueyang, Hunan, 48.0
- 12 Qidong, Hunan, 48.0

Key 2G bioethanol plants:

- 1 Yucheng, Shandong Longlive
- 2 Zhaodong, Heilongjiang COFCO
- 3 Henan 1-2, Tianguan Group
- 4 Bengbu, Anhui BBKA Biochemical
- 5 Jilin 2, Jilin Fuel Alcohol
- 6 Zesheng Project, Shandong
- 7 Beijing Shougang, LanzaTech
- 8 BaoSteel Mill Shanghai, LanzaTech
- 9 Asia Mobile Demo, LanzaTech

Top-5 Chinese cities regarding to incineration plants by maximum daily capacity in ton (2016), tpd:

- 1 Shanghai, 9300
- 2 Kunming, 8150
- 3 Ningbo, 8000
- 4 Beijing, 7100
- 5 Wuhan, 6500

Major waste gasification plants by plasma:

- 1 Wuhan, Hubei Wuhan Kaidi
- 2 Shanghai, GTS Energy

Key bioethanol plants:

- 1 Jilin 1, Jilin Fuel Ethanol
- 2 Henan, Tianguan Group
- 3 Anhui, BBKA Biochemical
- 4 Zhejiang Zhoushan Fuel Ethanol
- 5 Zhaodong, Heilongjiang COFCO
- 6 Beihai City, Guangxi COFCO
- 7 Zhongnen, Guangzhou
- 8 Hainan Yedao Group
- 9 Qingdao, Shandong Longlive
- 10 Bayanzhuoer City, Inner Mongolia ZTE Energy

Key biogas plants:

- 1 Penglai, Shandong Minhe Co.
- 2 Beijing Deqingyuan
- 3 Hohhot, Inner Mongolia, Mengniu Aoya
- 4 Nanyang, Henan Tianguan Group
- 5 Guangxi, Wuming Anning Starch
- 6 Guangxi, Wuming Jiaolong Alcohol Energy

Key biodiesel plants over 50 000 t/y:

- 1 Changsha, Hunan Zhonghe Energy
- 2 Lanzhou, Gansu Gansu Huacheng
- 3 Beijing, Gushan Env.
- 4 Shandong, Huawu Group
- 5 Shangqiu, Henan Xinghuo Bioenergy
- 6 Hong Kong, ASB Biodiesel
- 7 Dongfang, Hainan CNOOC
- 8 Nanchong, Sichuan PetroChina
- 9 Xingyi, Guizhou Sinopec
- 10 Jiangyin, Jiangsu China Clean Energy
- 11 Longyan, Fujian Longyan Zhuoyue New Energy
- 12 Xiamen, Fujian Xiamen Zhuoyue BioEnergy
- 13 Tongxiang, Zhejiang Dongjiang Energy
- 14 Shanghai, Gushan Environmental

Key landfill gas-to-energy plants over 1 MW:

- 1 Shanghai Laogang
- 2 Xi'an Jiangcungou
- 3 Guangzhou Xingfeng
- 4 Shenzhen Xiaping, Guangdong
- 5 Nanchang Maiyuan, Jiangxi
- 6 Nanjing Shui-Ge
- 7 Guangzhou Datianshan
- 8 Changsha City Qiaoyi, Hunan
- 9 Beijing Asuwei
- 10 Hong Kong (WENT, SENT, NENT)

Key fast pyrolysis plants:

- 1 Hefei, Anhui USTC Pilot

