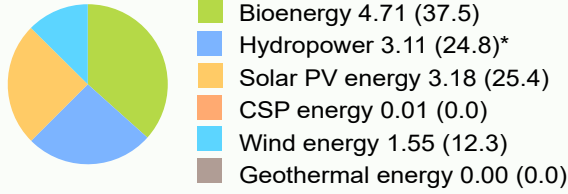


# Thailand • Renewable energy • Bioenergy

## Total installed renewable energy power capacity by 2023, GW (%)



**Total: 12.55 (100)**

Source: Renewable capacity statistics 2024 © IRENA  
\* excluding pumped storage

## Key biomass power plants over 10.0 MWeI, MWeI:

- 1 New Krung Thai Sugar Factory, 90.0
- 2 Nam Phong, KSL Group, 65.0
- 3 Wang Sapung, KSL Group, 40.0
- 4 Dan Chang, 40.0
- 5 Phu Khiow, 40.0
- 6 Prasart, Surin Electric Co., 30.0
- 7 Pichit, AT Biopower, 22.0
- 8 Yala, 20.2
- 9 Roi Et, Buasommai Co., 16.3

## Key biogas plants over 1 MWeI, MWeI:

- 1 Tha Sae, VG Energy, 5.6
- 2 Thung Ka, VG Energy, 2.8
- 3 Phimai, KI Biogas Co., 4.0
- 4 Phayao, Agro-on, 1.6
- 5 Mae Tang, UAC, 1.5
- 6 Ubon Ratchathani, 1.0

## Key landfill gas-to-energy plants, MWeI:

- 1 Kamphaeng Saen West & East Projects, 16.0
- 2 Bantan (Chiang Mai), 1.0

## Waste gasification plant from MSW, MWth:

- 1 Nong Bua, 3.8

## 2G bioethanol plant:

- 1 Etanolix (Ubon Ratchathani), St1/UBON Pilot

## Key bioethanol plants over 250 000 l/day in 2019:

- 1 Nakhon Ratchasima, TPK Ethanol Co. Phase 1
- 2 Nakhon Ratchasima, TPK Ethanol Co. Phase 2-3\*
- 3 Phu Khiao (Chaiyaphum), Mitr Phol Group
- 4 Si Maha Phot, E85 Co.
- 5 Na Yia, Ubon Bio Ethanol Co.
- 6 Kuchinarai (Kalasin), Mitr Phol Group
- 7 Bo Phloi, KSL Group
- 8 Wang Muang, Thai Roong Ruang Group
- 9 Phimai, KI Ethanol Co.

\* under construction

## Key biodiesel plants over 200 000 l/day in 2019:

- 1 Lat Lum Kaeo, Patum Vegetable Oil
- 2 Map Ta Phut (Rayong), GGC
- 3 Nong Yai (Chon Buri), GGC
- 4 Tha Chang (Surat Thani), New Biodiesel
- 5 Bang Pa-in, Bangchak Biofuel
- 6 Kabin Buri, Pure Energy Co.
- 7 Krathum Baen, A.I. Energy
- 8 Bang Saphan, PPP Green Complex
- 9 Ban Khai (Rayong), Absolute Power P
- 10 Tha Sae, GI Green Power
- 11 Samut Sakhon, Verasuwan

## Key wood pellet plants:

- 1 Krabi, Thai Wood Pellet
- 2 Samut Prakan, Bio Pellets

## Key waste-to-energy plants:

- 1 Kaeng Khoi (Saraburi), TPI
- 2 Phuket
- 3 Samut Prakan
- 4 Nong Khaem (Bangkok), C&G
- 5 Hat Yai
- 6 Amphoe Mueang (Khon Kaen), ACE
- 7 Korat
- 8 Rayong\*

\* under construction

