

Spain • Renewable energy • Bioenergy

Total installed renewable energy power capacity by 2020, GW (%)



- Bioenergy 1.13 (1.9)
- Hydropower 16.79 (28.4)*
- Solar PV energy 11.79 (20.0)
- CSP energy 2.30 (3.9)
- Wind energy 27.09 (45.8)
- Marine energy 0.00 (0.0)

Total: 59.10 (100)

Source: Renewable Energy Statistics 2021 © IRENA
* excluding pumped storage

Major biomass power plants over 15 MWe, MWe:

- 1 Navia, 77.0
- 2 Huelva, 50.0
- 3 Pontevedra, 34.5
- 4 Sanguesa, 30.2
- 5 Merida, 20.0
- 6 Garray, 16.8
- 7 Enemansa (Ciudad Real), 16.0
- 8 Briviesca, 16.0
- 9 La Loma (Jaen), 16.0
- 10 Miajadas, 15.0
- 11 Linares (Jaen), 15.0

Major biogas plants over 1 MWe:

- 1 Caparroso (Navarra), HTN Biogás
- 2 Torres de Segre (Lleida), Ecobiogas
- 3 Juneda (Lleida), Tracjusa

Major 2G biodiesel (algae) plants:

- 1 Chiclana (All-Gas Project), Aqualia Demo

Major 2G bioethanol plants:

- 1 PERSEO Plant, IMECAL Demo
- 2 Babilafuente (Castilla y León), Abengoa Demo

Major bioethanol plants:

- 1 Babilafuente (Castilla y León), Abengoa
- 2 Teixeira (Bioetanol Galicia), Abengoa
- 3 Cartagena (Ecocarburantes Españoles), Abengoa
- 4 Alcazar de San Juan (Bioetanol de la Mancha), Acciona

Major torrefaction plants:

- 1 Urnieta (San Sebastian), Thermya

Major biomass gasification plants from biowaste, MWth:

- 1 Enamora CHP (Catalonia), 15.0

Major landfill gas-to-energy plants over 2 MWe:

- 1 Valdemingómez (Madrid)
- 2 Pinto (Madrid)
- 3 UTE Biogas Garraf, Gava
- 4 A Coruña, Urbaser / UTE Albada
- 5 Zaragoza, Urbaser / UTE Ebro
- 6 Malaga, Limasa / Urbaser
- 7 Ecoparc 1-2-3 (Barcelona), Urbaser

Key wood pellet plants:

- 1 A Coruña, Biomasa Forestal
- 2 Burgos, BurpelletsWood
- 3 Toledo, Caryse
- 4 Burgos, Ribsa
- 5 Toledo, Ecoforest
- 6 Soria, Amatex S.A.
- 7 Muxika (Bizkaia), Ebaki-Ebepellet
- 8 Jaen, Magina Energia
- 9 Albacete, Ertá

Biodiesel plants over 200 000 t/y:

- 1 Castellon, Infinita Renovables
- 2 El Ferrol, Infinita Renovables
- 3 Badajoz, Bionex
- 4 Huelva, Bio-Oils
- 5 Bilbao, Entaban
- 6 Huelva, Abengoa
- 7 Bilbao, Acciona
- 8 A Coruña (El Ferrol), Entaban
- 9 Tarragona, Entaban
- 10 Andujar, Deoleo
- 11 Cartagena, Saras

