

# France • Renewable energy • Bioenergy

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



- Bioenergy 2.05 (3.2)
- Hydropower 24.56 (37.6)\*
- Solar PV energy 17.41 (26.6)
- CSP energy 0.01 (0.0)
- Wind energy 21.12 (32.3)
- Geothermal energy 0.02 (0.0)
- Marine energy 0.21 (0.3)

**Total: 65.38 (100)**

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

## Major bioethanol plants:

- 1 Bazancourt, Cristanol
- 2 Arcis sur Aube, Cristal Union
- 3 Loon-Plage, Ryssen Alcools
- 4 Origny-St.-Benoite, Tereos
- 5 Lacq, AB Bioenergy France
- 6 Lillebonne, Tereos
- 7 Beinheim, Roquette Freres
- 8 Eppeville, Saint Louis Sucre
- 9 Lillers, Tereos
- 10 Artenay, Tereos
- 11 Morains, Tereos
- 12 Bucy-le-Long, Tereos
- 13 Souppes, Sica Vallee du Loing
- 14 Toury, Cristal Union

## Waste-to-energy plants over 35 tph (Jul 2017):

- 1 Ivry (Paris)
- 2 Saint Ouen
- 3 Issy-Les-Moulineaux
- 4 Nice
- 5 Strasbourg
- 6 Toulouse Mirail
- 7 Rouen 2 (Grand Quevilly)
- 8 Halluin (Lille)
- 9 Toulon
- 10 Lyon Sud

## Top 5 French biogas producing regions by total number of plant (2016), plants:

- 1 Grand Est, 84
- 2 Normandie, 49
- 3 Bretagne, 47
- 4 Auvergne Rhone-Alpes, 46
- 5 Pays de la Loire, 45

Sources: Observ'ER (2016 Edition);  
Cartotheque de SINOE.



## Major biomass power plants over 15 MWeI, MW:

- 1 Smurfit Kappa (Biganos), 69.0
- 2 Grand-Couronne, 30.0
- 3 Brignoles (Sylviana), 21.5
- 4 Saint-Gaudens, 20.0
- 5 Lacq, 19.0
- 6 Vielle-Saint-Girons, 17.0
- 7 Mesnil-Saint-Nicaise, 16.0
- 8 Commenry, 15.0



## Major biodiesel plants:

- 1 Bordeaux / Bassens, Diester Industrie
- 2 Grand-Couronne I-II, Diester Industrie
- 3 Montoir / St. Nazaire, Diester Industrie
- 4 Le Meriot, Diester Industrie
- 5 Sete, Diester Industrie
- 6 Compiègne, Diester Industrie
- 7 Baleycourt (Verdun), INEOS
- 8 Le Havre, Estener
- 9 Pomacle, Futurol
- 10 La Rochelle, Bionergy (Sica)
- 11 Boussens, Cognis
- 12 Lestrem, DSM
- 13 Chalandray, Centre Ouest Cereales
- 14 Limay, Veolia/SARP Industries



## Major 2G bioethanol plants:

- 1 Pomacle, Futurol Project



## BtL-FT plants, t/y:

- 1 Dunkirk, BioTfuel, 200 000



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

- 1 Claye-Souilly, 26.0
- 2 Plessis-Gassot, 17.3



## Major waste gasification plants by plasma:

- 1 Morcenx, CHO Power



## Major wood pellet plants over 30 000 t/y (Jul 2017):

- 1 Cosne-Cours-sur-Loire, Biosyl
- 2 Saint-Germain-près-Herment (Auvergne), EO2
- 3 Sainte Florence, Piveteau Bois
- 4 Secondigne sur Belle, Archimbaud
- 5 Urmatt, Siat Braun
- 6 Le Cheylas, Alpes Energie Bois
- 7 Bouleville, Aswood
- 8 Levier, Haut Doubs Pellets
- 9 Severac-le Chateau (Aveyron), Cogra
- 10 Craponne sur Arzon (Haute Loire), Cogra



## Torrefaction plants:

- 1 Mazingarbe, LMK Energy/Thermya

