Israel • Renewable energy

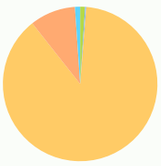
Gross electricity generation from renewable sources by 2019, TWh (%)

- Bioenergy 0.08 (2.4)
- Solar PV energy 2.60 (75.8)
- CSP energy 0.45 (13.0)
- Wind energy 0.30 (8.8)

Total: 3.43 (100)

Source: Renewable Energy Statistics 2021 © IRENA

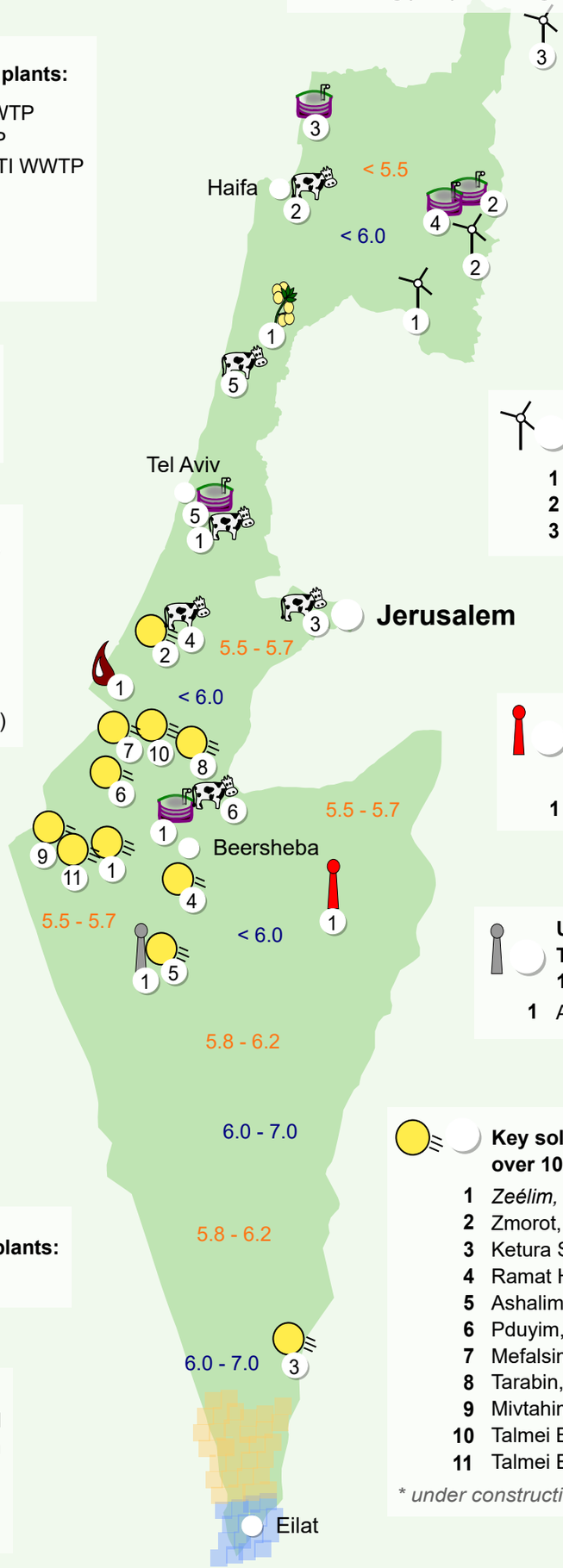
Total installed renewable energy power capacity by 2020, MW (%)



- Bioenergy 26.03 (1.0)
- Hydropower 6.00 (0.2)*
- Solar PV energy 2230.00 (88.1)
- CSP energy 242.00 (9.6)
- Wind energy 27.25 (1.1)

Total: 2531.28 (100)

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



Key biogas plants:

1. Shafdan WWTP
2. Haifa WWTP
3. Sorek, MAVTI WWTP
4. Beer Tuvia
5. Emek Hefer
6. *Lahav**

** under construction*

Key biomass power plant:

1. Galam

Key landfill gas-to-energy plants:

1. Dudaim
2. Talia
3. Evron
4. Hagal
5. Hiriya (Tel Aviv)

Key biodiesel plants:

1. Karmiya, NBI

Major wind farms over 1 MW, MW:

1. Ma'ale Gilboa, 11.9
2. Ramat Sirin, 9.4
3. Golan Heights, 6.0

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

1. SEDC Rotem, 6.0

Under construction CSP Tower type plants over 1 MW, MW:

1. Ashalim CSP, 121.0

Key solar PV power plants over 10 MWe, MWe:

1. *Zeélim, 120.0**
2. Zmorot, 50.0
3. Ketura Solar, 40.0
4. Ramat Hovav (Ne'ot Hovay), 37.5
5. Ashalim Solar, 35.0
6. Pduyim, 14.1
7. Mefalsim, 13.4
8. Tarabin, 12.7
9. Mivtahim, 10.0
10. Talmei Bilu, 10.0
11. Talmei Eliyahu, 10.0

** under construction*

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 over 6.2 kWh/m² per day, distributed in the southern part of the country, near of the Eilat city.

The most common wind speed is over 7.0 m/s at 50 m are distributed in southern part of the country, Eilat city area.

Source: Energydata.info

www.aenert.com