Mongolia

0%

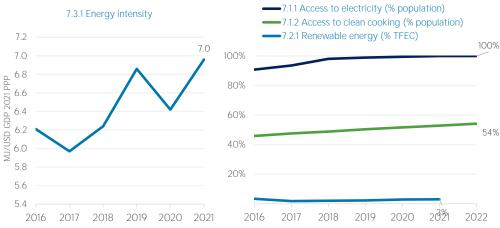
-8%

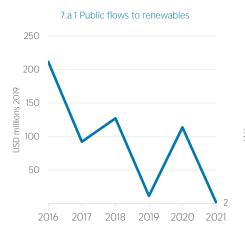


7.3.1 Energy intensity GDP per capita ——8.1.1 Real GDP growth rate 7.2 16.3 17 6% 7.0 4% 16 2% 16 ddd 150 2000, QSN 14

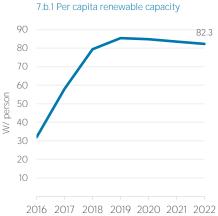
14

13

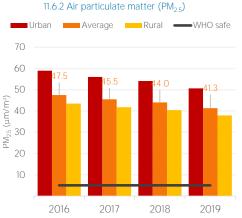




201 208 208 202 202 202 202



COUNTRY INDICATORS AND SDGS



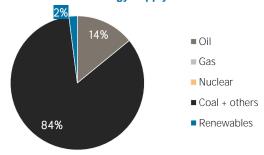
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2016	2021
Non-renewable (TJ)	290 618	472 791
Renewable (TJ)	6 671	9 770
Total (TJ)	297 289	482 561
Renewable share (%)	2	2

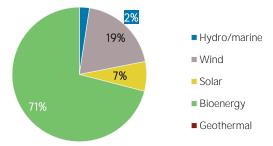
Growth in TES	2016-21	2020-21
Non-renewable (%)	+62.7	+12.4
Renewable (%)	+46.4	+8.7
Total (%)	+62.3	+12.3

Primary energy trade	2016	2021
Imports (TJ)	47 033	75 993
Exports (TJ)	711 450	475 460
Net trade (TJ)	664 417	399 467
Imports (% of supply)	16	16
Exports (% of production)	74	54
Energy self-sufficiency (%)	323	183

Total energy supply in 2021



Renewable energy supply in 2021



RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend ■ Electricity ■ Commercial heat ■ Bioenergy 14 12 12 10 10 10 10 Petajoules (PJ) 8 8 6 4 2 2016 2017 2018 2019 2020 2021 Consumption by sector 2016 2021 Industry (TJ) 598 1689 Transport (TJ) 40 113 Households (TJ) 5 316 6 968

1 410

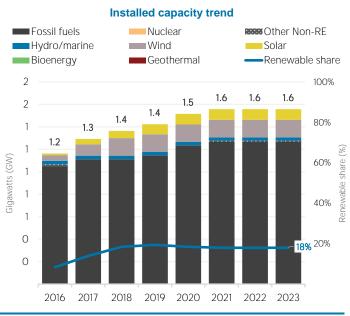
Other (TJ)

Renewable energy consumption in 2021 Solar direct 22% 14% Image: Industry of the consumption in 2021 Industry of the consumption in 2021 Industry of the consumption in 2021 Industry of the consumption in 2021

57%

ELECTRICITY CAPACITY

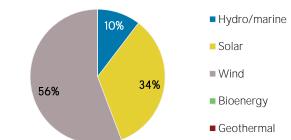
3 400







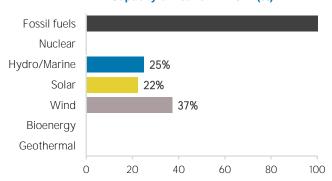
Renewable capacity in 2023



Net capacity change (GW)

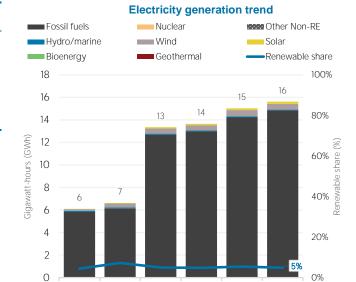


Capacity utilisation in 2022 (%)

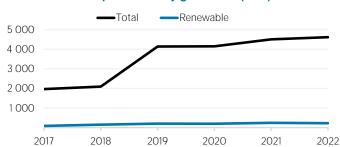


ELECTRICITY GENERATION

Generation in 2022	GWh	%
Non-renewable	14 858	95
Renewable	760	5
Hydro and marine	64	0
Solar	186	1
Wind	510	3
Bioenergy	0	0
Geothermal	0	0
Total	15 618	100



Per capita electricity generation (kWh)



LATEST POLICIES, PROGRAMMES AND LEGISLATION 1 Mongolia State Policy on Energy 2015-2030 2 Mongolia Mineral Law 2014 3 Mongolian Law on Investment 4 Mongolia Concession Law 2010 5 Mongolia renewable energy feed-in tariff 2007

2017

2018

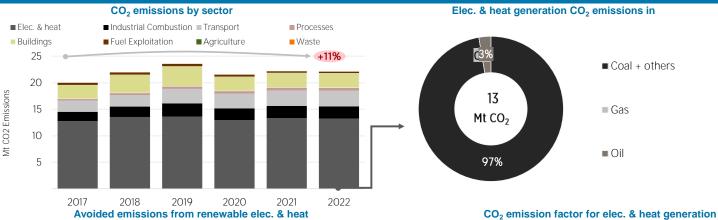
2019

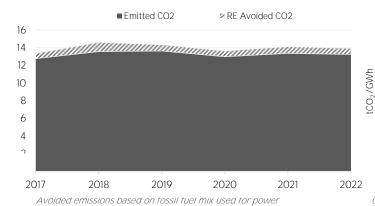
2020

2021

2022

ENERGY AND EMISSIONS

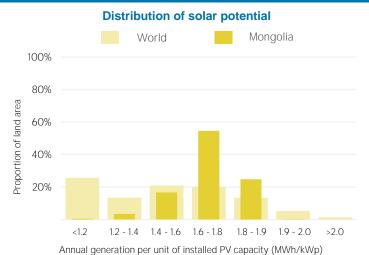




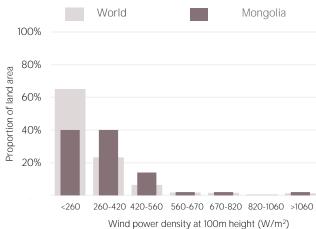


Calculated by dividing power sector emissions by elec. + heat gen.

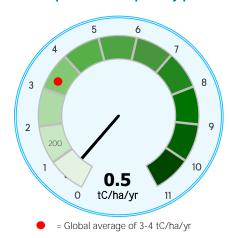
RENEWABLE RESOURCE POTENTIAL



Distribution of wind potential



Biomass potential: net primary production



Indicators of renewable resource potential

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).

Onshore wind: Potential wind power density (W/m²) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country's land area in each of these classes compared to the global distribution of wind resources. Areas in the third class or above are considered to be a good wind resource.

Biomass: Net primary production (NPP) is the amount of carbon fixed by plants and accumulated as biomass each year. It is a basic measure of biomass productivity. The chart shows the average NPP in the country (tC/ha/yr), compared to the global average NPP of 3-4 tonnes of carbon



Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (H5). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided emissions from renewable power is calculated as renewable generation divided by fossil fuel generation multiplied by reported emissions from the power sector. This assumes that, if renewable power did not exist, fossil fuels would be used in its place to generate the same amount of power and using the same mix of fossil fuels. In countries and years where no fossil fuel generation occurs, an average fossil fuel emission factor has been used to calculate the avoided emissions.

These profiles have been produced to provide an overview of developments in renewable energy in different countries and areas. The IRENA statistics team would welcome comments and feedback on its structure and content, which can be sent to statistics@irena.org.

Last updated on: 31 July, 2024



IRENA Headquarters Masdar City P.O. Box 236, Abu Dhabi United Arab Emirates www.irena.org