Guatemala

COUNTRY INDICATORS AND SDGS







International Renewable Energy Agency









TOTAL ENERGY SUPPLY (TES)

11.6.2 Air particulate matter (PM_{2.5})



Total Energy Supply (TES) 2015 2020 Non-renewable (TJ) 190 398 214 714 Renewable (TJ) 291 497 341 512 Total (TJ) 481 895 556 226 Renewable share (%) 61 60 Growth in TES 2015-20 2019-20 Non-renewable (%) +12.8 -11.9 Renewable (%) +17.2 +3.1 Total (%) +15.4 -3.3

Primary energy trade	2015	2020
Imports (TJ)	249 417	238 859
Exports (TJ)	38 432	22 255
Net trade (TJ)	- 210 985	- 216 604
Imports (% of supply)	52	43
Exports (% of production)	12	6
Energy self-sufficiency (%)	65	64





Renewable energy supply in 2020



RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend





ELECTRICITY CAPACITY



Net capacity change in 2022 (MW)



Renewable capacity in 2022



Net capacity change (GW)



Capacity utilisation in 2021 (%)



Renewable energy consumption in 2020

ELECTRICITY GENERATION



5 National Energy Policy 2013-2027 (Politica Energetica 2013-2027)





Avoided emissions based on tossil tuel mix used for power

Elec. & heat generation CO₂ emissions in



CO₂ emission factor for elec. & heat generation



RENEWABLE RESOURCE 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

Sources: IRENA statistics, plus data from the following sources: UN SDG Database (original sources: WHO; World Bank; IEA; IRENA; and UNSD); UN World Population Prospects; UNSD Energy Balances: UN COMTRADE; World Bank World Development Indicators; EDGAR; REN21 Global Status Report; IEA-IRENA Joint Policies and Measures Database; IRENA Global Atlas; and World Bank Global Solar Atlas and Global Wind Atlas.

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 (HS). 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 fuel. 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.

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