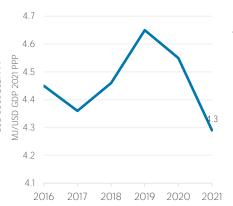
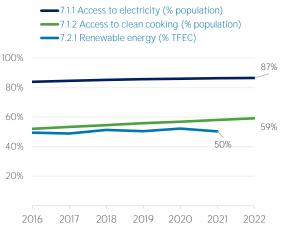
# Nicaragua

## COUNTRY INDICATORS AND SDGS

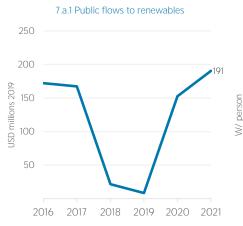


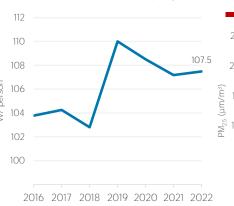


7.b.1 Per capita renewable capacity

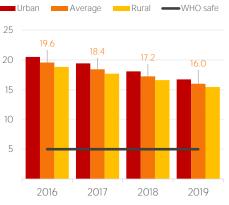


International Renewable Energy Agency



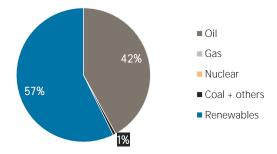




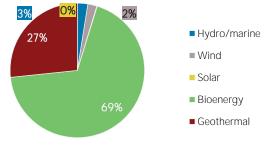


**TOTAL ENERGY SUPPLY (TES)** 

#### Total energy supply in 2021



Renewable energy supply in 2021



**Total Energy Supply (TES)** 2021 2016 Non-renewable (TJ) 72 745 70 958 Renewable (TJ) 92 372 95 351 Total (TJ) 165 117 166 309 Renewable share (%) 56 57 Growth in TES 2016-21 2020-21

Olowin III TEO	2010-21	2020-21
Non-renewable (%)	-2.5	+8.5
Renewable (%)	+3.2	-1.0
Total (%)	+0.7	+2.8

2016	2021
71 901	74 941
909	4 023
- 70 992	- 70 918
44	45
1	4
56	56
	71 901 909 - 70 992 44 1

## **RENEWABLE ENERGY CONSUMPTION (TFEC)**

**Renewable TFEC trend** Electricity Bioenergy Commercial heat 120 106 105 104 105 105 100 100 80 60 40 20 2016 2017 2018 2019 2020 2021 **Consumption by sector** 2016 2021

5 937

43 089

50 665

0

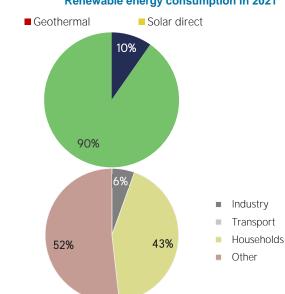
Petajoules (PJ)

Industry (TJ)

Transport (TJ)

Other (TJ)

Households (TJ)



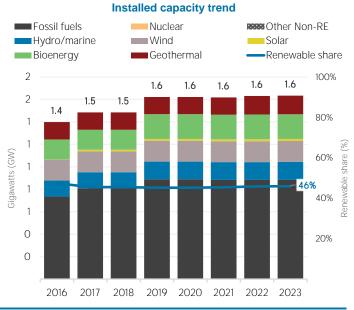
## **ELECTRICITY CAPACITY**

5 769

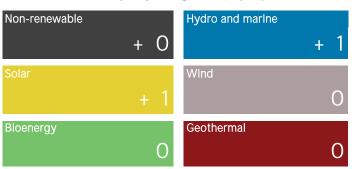
44 803

54 303

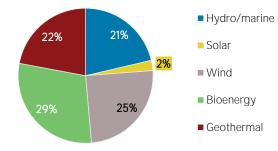
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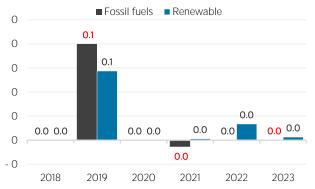
Net capacity change in 2023 (MW)



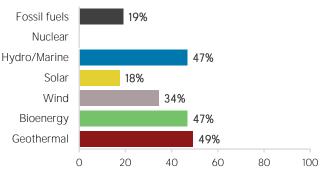
**Renewable capacity in 2023** 



Net capacity change (GW)

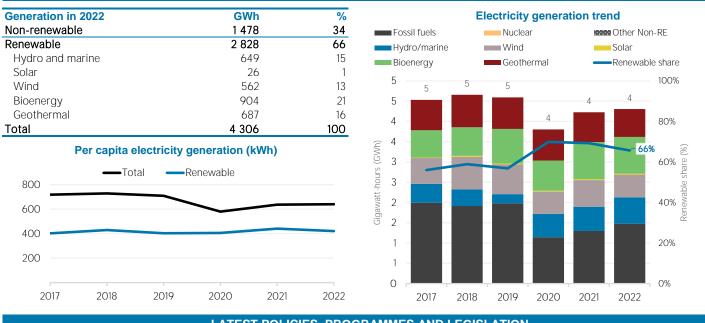






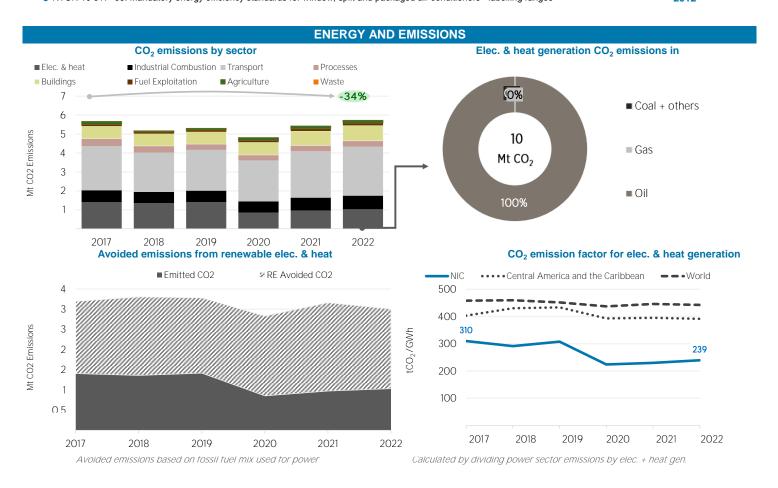
Renewable energy consumption in 2021

#### **ELECTRICITY GENERATION**



## LATEST POLICIES, PROGRAMMES AND LEGISLATION

1 2022 fuel subsidy increase	2022
2 National Partnership with Global Alliance for Clean Cookstoves	2014
3 Electricity Generation Expansion Plan (2013-2027)	2013
4 Fuelwood and Charcoal National Strategy (2011-2021)	2012
5 NTON 10 017- 09: Mandatory energy efficiency standards for window, split and packaged air conditioners - labelling ranges	2012

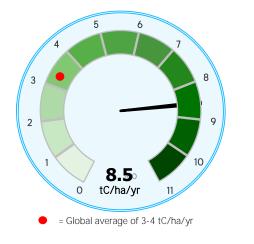


#### **RENEWABLE RESOURCE POTENTIAL**



Annual generation per unit of installed PV capacity (MWh/kWp)

#### **Biomass potential: net primary production**



 B0%
 Nicaragua

 40%
 20%

 <260</td>
 260-420
 560-670
 670-820
 820-1060
 >1060

Wind power density at 100m height (W/m<sup>2</sup>)

#### 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/m<sup>2</sup>) 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.

Blomass: 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 (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.

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