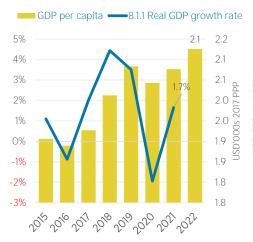
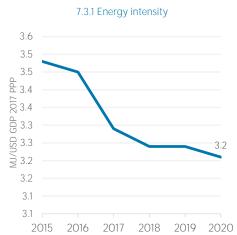
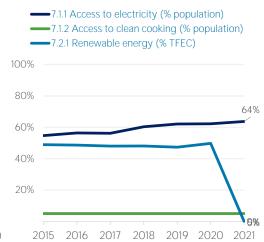
# Gambia



#### COUNTRY INDICATORS AND SDGS







7.a.1 Public flows to renewables

140

120

100

80

40

2015

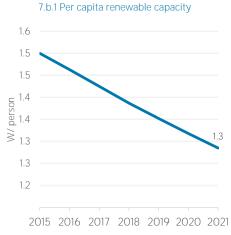
2016

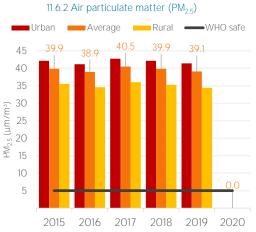
2017

2018

2019

2020





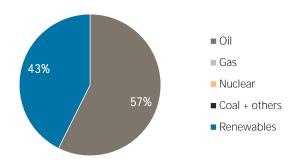
### TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	8 016	9 623
Renewable (TJ)	6 938	7 153
Total (TJ)	14 954	16 776
Renewable share (%)	46	43

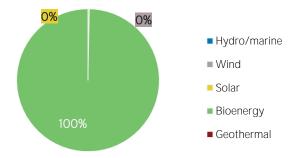
Growth in TES	2015-20	2019-20
Non-renewable (%)	+20.0	+15.9
Renewable (%)	+3.1	-0.6
Total (%)	+12.2	+8.3

Primary energy trade	2015	2020
Imports (TJ)	9 184	10 488
Exports (TJ)	94	116
Net trade (TJ)	- 9 090	- 10 372
Imports (% of supply)	61	63
Exports (% of production)	1	2
Energy self-sufficiency (%)	45	43

#### Total energy supply in 2020



#### Renewable energy supply in 2020



#### RENEWABLE ENERGY CONSUMPTION (TFEC)

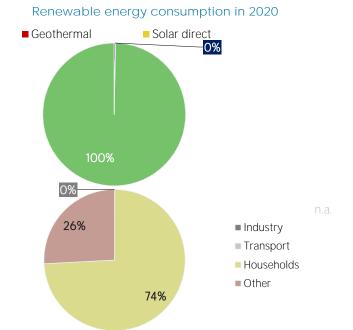
#### Renewable TFEC trend ■ Electricity ■ Commercial heat ■ Bioenergy 8 7 6 Petajoules (PJ) 5 4 3 2 2015 2016 2017 2018 2019 2020 Consumption by sector 2015 2020 Industry (TJ) 3 4 Transport (TJ) 0 0

5 257

1 691

Households (TJ)

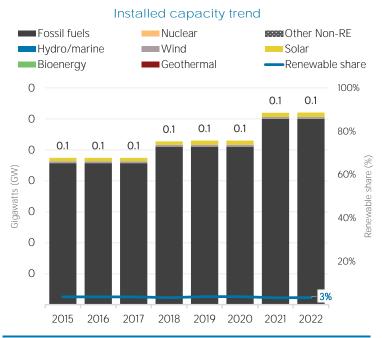
Other (TJ)



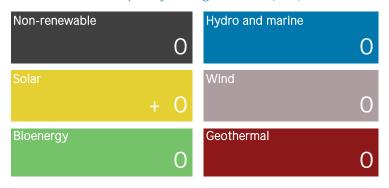
#### **ELECTRICITY CAPACITY**

5 310

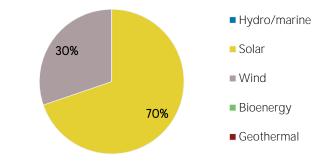
1851



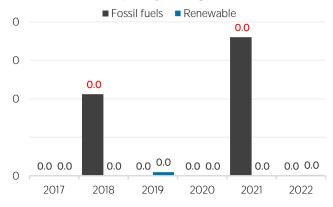




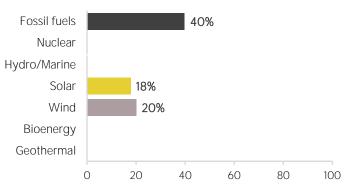
## Renewable capacity in 2022



#### Net capacity change (GW)



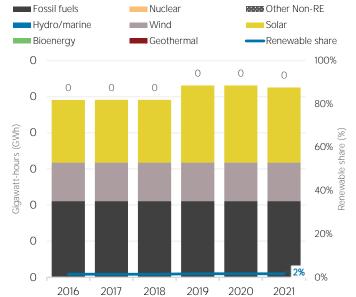
#### Capacity utilisation in 2021 (%)



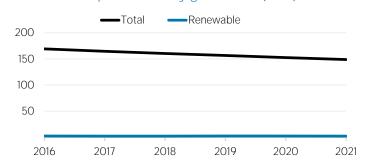
#### **ELECTRICITY GENERATION**

Generation in 2021	GWh	%
Non-renewable	386	98
Renewable	6	2
Hydro and marine	0	0
Solar	4	1
Wind	2	1
Bioenergy	0	0
Geothermal	0	0
Total	393	100



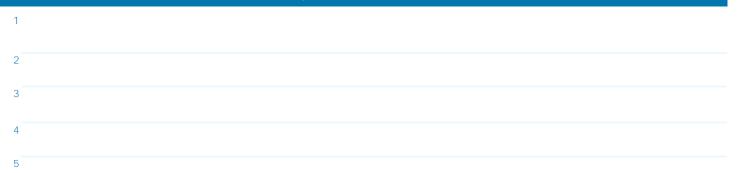


### Per capita electricity generation (kWh)



### LATEST POLICIES, PROGRAMMES AND LEGISLATION

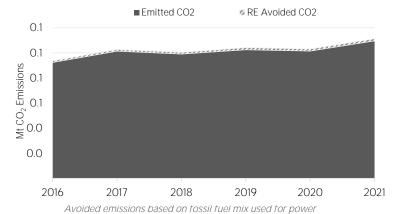
2016

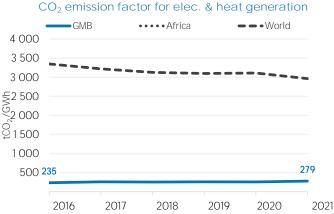


#### **ENERGY AND EMISSIONS**

#### Elec. & heat generation CO<sub>2</sub> emissions in Energy-related CO<sub>2</sub> emissions by sector ■ Elec. & heat ■ Other Industrial ■ Transport ■ Other Buildings (0% 0.6 ■ Coal + others 0.5 0.4 0.0 ■ Gas Mt CO<sub>2</sub> 0.3 0.2 ■ Oil 100% 0.1 2016 2017 2018 2019 2020 2021

#### Avoided emissions from renewable elec. & heat





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

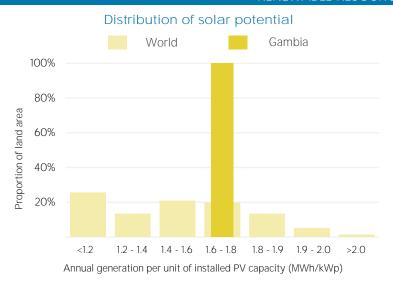
#### RENEWABLE RESOURCE POTENTIAL

Proportion of land area

40%

20%

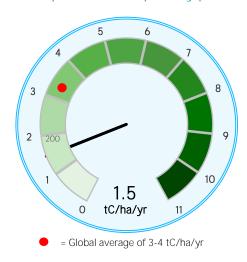
< 260



# Distribution of wind potential World Gambia 100% 80% 60%

260-420 420-560 560-670 670-820 820-1060 >1060 Wind power density at 100m height (W/m²)

#### 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

**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 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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