

Democratic Republic of the Congo

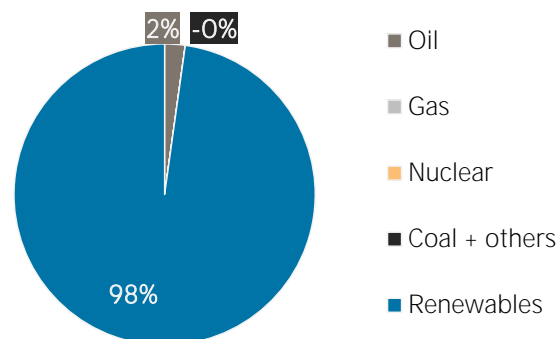
Sustainable Development Goal 7.2: Energy Indicators (2016)

Renewable energy (% of TFEC)	97.0	Access to electricity (% of population)	18.0
Energy efficiency (MJ per \$1 of GDP)	19.6	Access to clean cooking (% of population)	<5

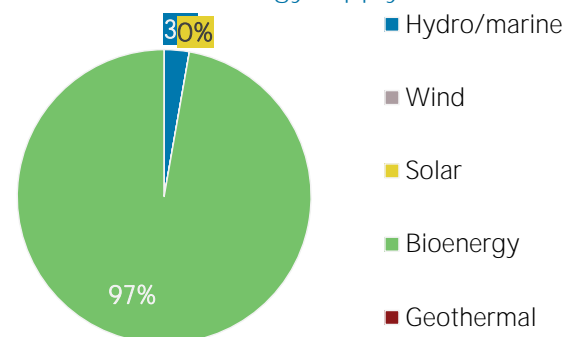
TOTAL PRIMARY ENERGY SUPPLY (TPES)

TPES	2011	2016
Non-renewable (TJ)	32 335	27 232
Renewable (TJ)	850 292	1 213 158
Total (TJ)	882 627	1 240 391
Renewable share (%)	96	98
Growth in TPES	2011-16	2015-16
Non-renewable (%)	-15.8	-27.3
Renewable (%)	+42.7	+3.4
Total (%)	+40.5	+2.5
Primary energy trade	2011	2016
Imports (TJ)	38 065	32 391
Exports (TJ)	51 587	43 643
Net trade (TJ)	13 522	11 252
Imports (% of supply)	4	3
Exports (% of production)	6	3
Energy self-sufficiency (%)	102	101
Net trade (USD million)	n.a.	n.a.
Net trade (% of GDP)	n.a.	n.a.

Total primary energy supply in 2016



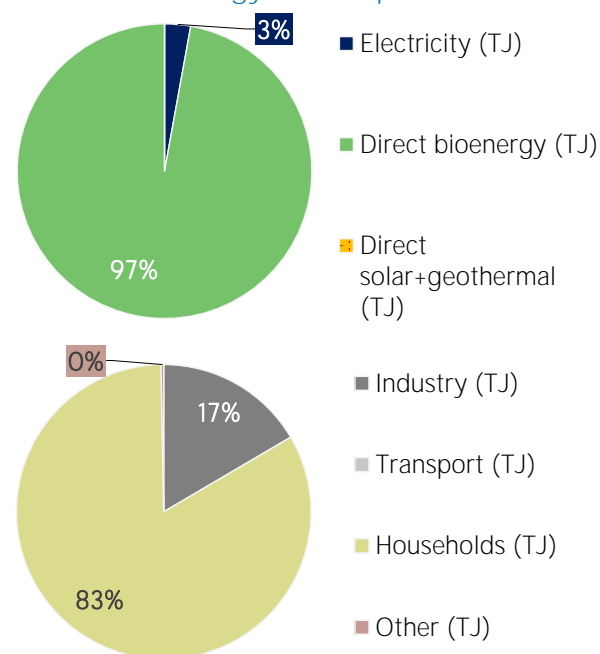
Renewable energy supply in 2016



RENEWABLE ENERGY CONSUMPTION

Consumption by source	2011	2016
Electricity (TJ)	24 096	25 241
Direct bioenergy (TJ)	791 979	860 518
Direct solar+geothermal (TJ)	0	0
Total (TJ)	816 075	885 759
Electricity share (%)	3	3
Consumption growth	2011-16	2015-16
Renewable electricity (%)	+4.8	+1.1
Other renewables (%)	+8.7	+3.5
Total (%)	+8.5	+3.4
Consumption by sector	2011	2016
Industry (TJ)	180 639	146 573
Transport (TJ)	0	0
Households (TJ)	634 694	736 615
Other (TJ)	741	2 571
Renewable share of TFEC	96.3	97.0

Renewable energy consumption in 2016

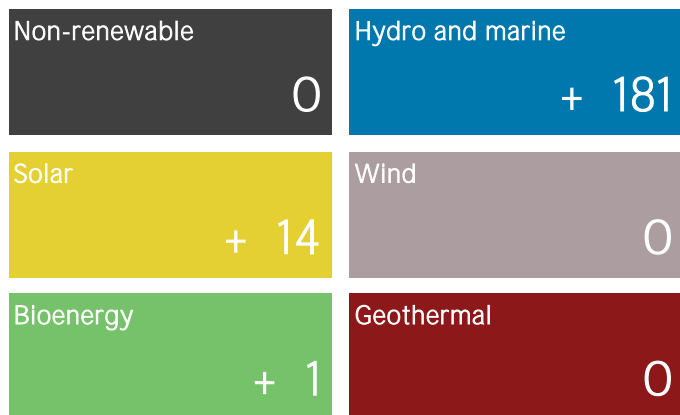


ELECTRICITY CAPACITY AND GENERATION

Capacity in 2018	MW	%
Non-renewable	135	5
Renewable	2 762	95
Hydro/marine	2 740	95
Solar	19	1
Wind	0	0
Bioenergy	3	0
Geothermal	0	0
Total	2 897	100

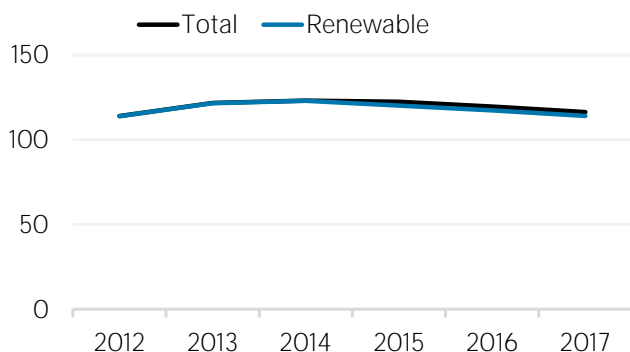
Capacity change (%)	2013-18	2017-18
Non-renewable	+ 47	0.0
Renewable	+ 10	+ 7.6
Hydro/marine	+ 9	+ 7.1
Solar	+ 4 757	+ 260.9
Wind	0	0.0
Bioenergy	+ 1 750	+ 37.0
Geothermal	0	0.0
Total	+ 11	+ 7.2

Net capacity change in 2018 (MW)

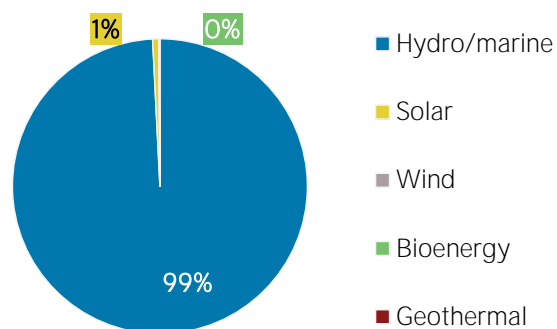


Generation in 2017	GWh	%
Non-renewable	180	2
Renewable	9 287	98
Hydro and marine	9 280	98
Solar	7	0
Wind	0	0
Bioenergy	0	0
Geothermal	0	0
Total	9 467	100

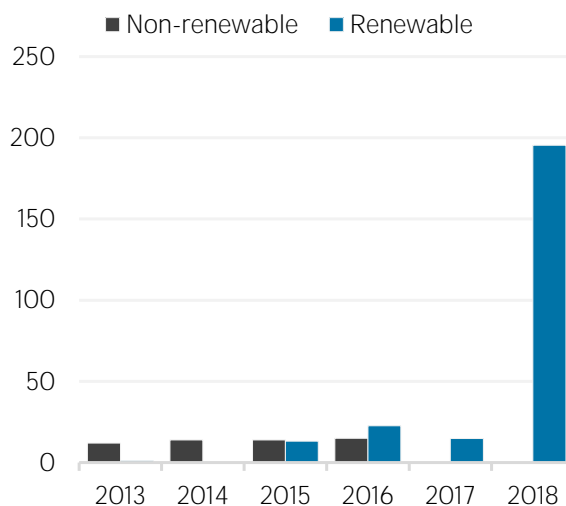
Per capita electricity generation (kWh)



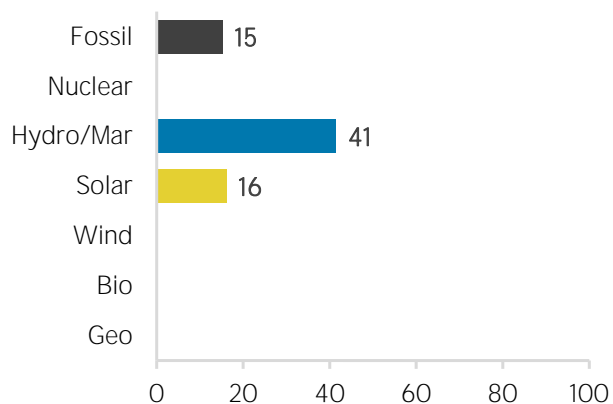
Renewable capacity in 2018



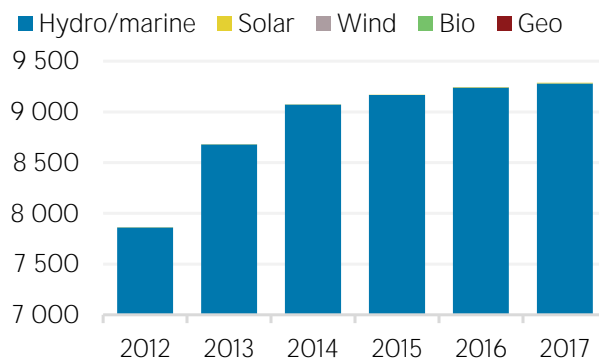
Net capacity change (MW)



Capacity utilisation in 2017 (%)



Renewable generation (GWh)



Most immediate clean energy targets & NDCs

	year	target	unit
Renewable energy:	2050	100	%
Renewable electricity:			
Renewable capacity:			
Renewable transport:			
Liquid Biofuel blending mandate:			
Other transport targets:			
Renewable heating/cooling:			
Renewable Hydropower	2030	2 000	USD million
Off-grid renewable technologies:			

Energy efficiency (Energy):

Energy efficiency (Electricity):

Latest policies, programmes and legislation

1 Law No. 14/011 (Electricity Sector)	2014
2 National Electrification Fund	2014
3 Growth and Poverty Reduction Strategy Paper (GPRSP2) 2011-2015	2011
4 Regional and Domestic Power Markets Development Project	2007
5 Investment Code Law No.0004/2002	2002

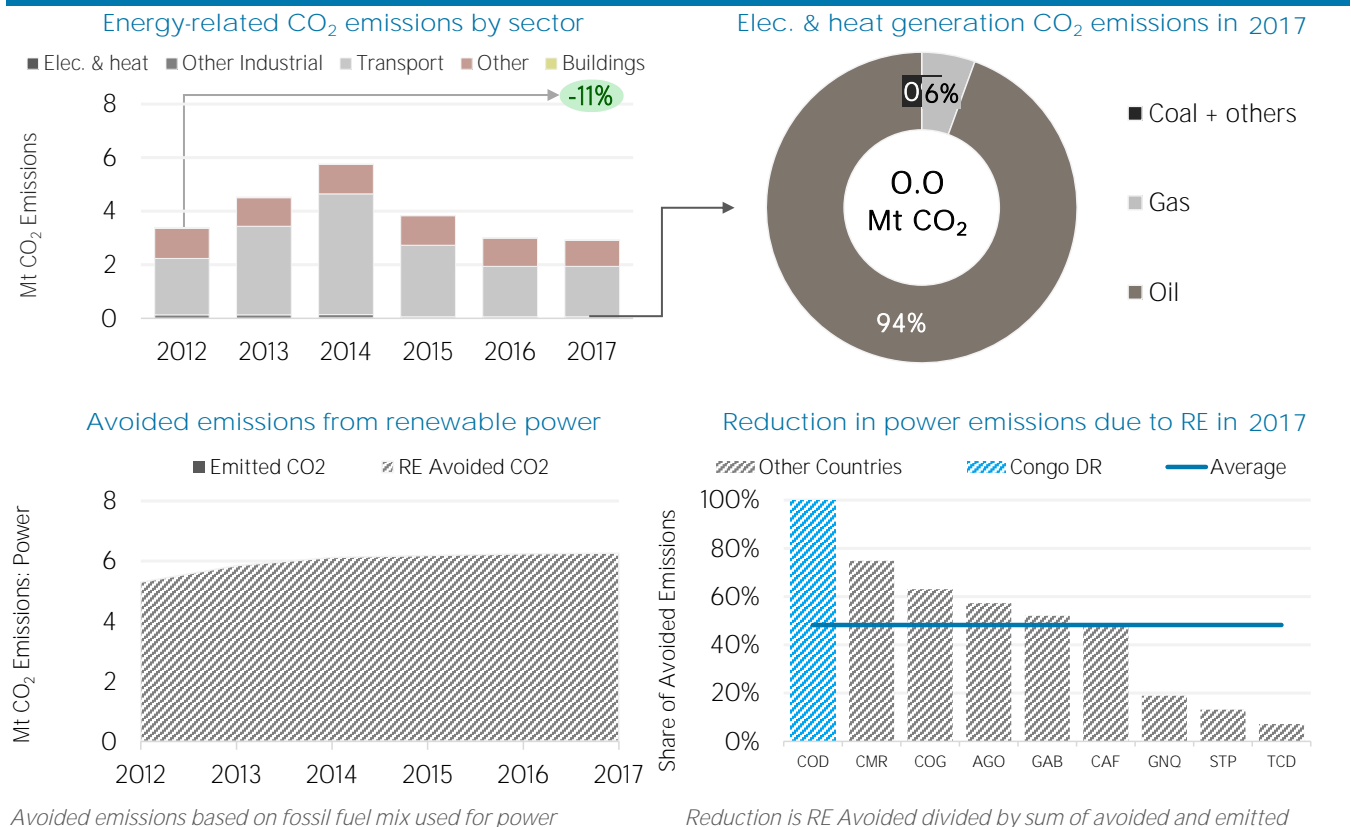
References to sustainable energy in Nationally Determined Contribution (NDC)

- Renewable energy

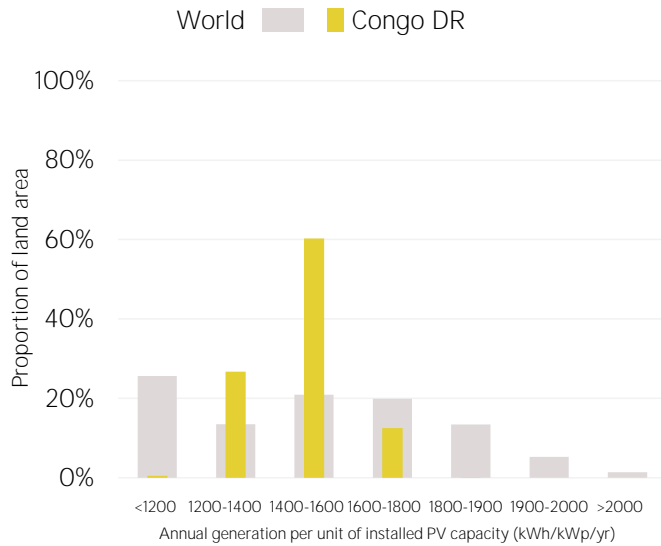
- electricity
- transport
- heating/cooling
- Energy efficiency

Conditional Unconditional unit

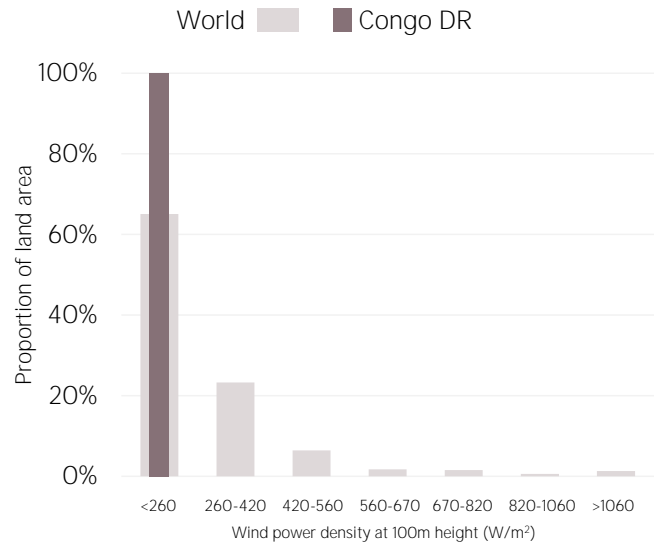
ENERGY AND EMISSIONS



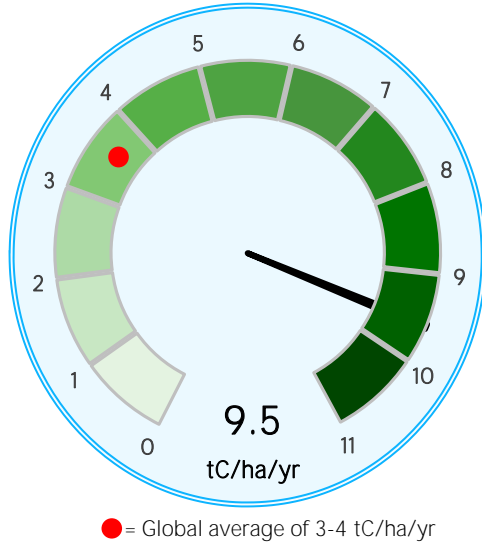
Distribution of solar potential



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 per year.

Sources: IRENA statistics, plus data from the following sources: UN SDG Indicators Database (original sources: WHO; World Bank; IEA; IRENA; and UNSD); 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: Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. The value of energy trade has been defined as including all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation has been calculated as annual generation divided by capacity x 8,760. Avoided emissions from renewable power have been 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.

This note has been produced to provide policy makers with a brief overview of developments in renewable energy in a country. 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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