

Sri Lanka

Net trade (% of GDP)

SUSTAINABLE DEVELOPMENT GOAL 7: ENERGY INDICATORS (2018)

Renewable energy (% of TFEC)

51.4 Access to electricity (% of population)

100.0

Energy efficiency (MJ per \$1 of GDP)

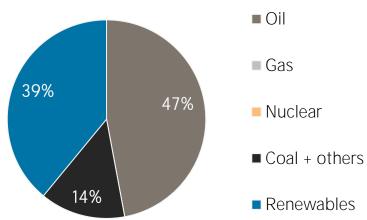
1.8 Access to clean cooking (% of population)

206.1 Per capita renewable capacity (W/person)

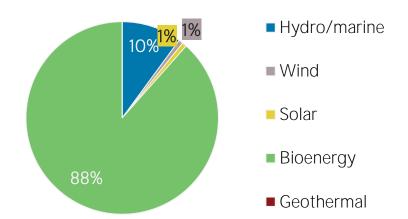
101.879

TOTAL PRIMARY ENERGY SUPPLY (TPES) 2018 **TPES** 2013 267 891 Non-renewable (TJ) 196 161 Renewable (TJ) 181 922 171 526 Total (TJ) 378 083 439 417 39 Renewable share (%) 48 Growth in TPES 2013-18 2017-18 Non-renewable (%) +36.6 -8.7 -5.7 -2.6 Renewable (%) Total (%) +16.2 -6.4 Primary energy trade 2013 2018 Imports (TJ) 220 040 317 060 Exports (TJ) 5 755 3 943 - 214 285 Net trade (TJ) - 313 117 Imports (% of supply) 72 58 Exports (% of production) 3 2 Energy self-sufficiency (%) 48 39 Net trade (USD million) - 4 168

Total primary energy supply in 2018



Renewable energy supply in 2018



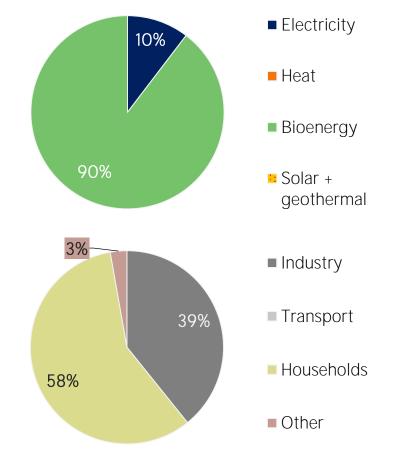
RENEWABLE ENERGY CONSUMPTION

n.a.

-5.6

Consumption by source	2013	2018
Electricity (TJ)	20 603	17 248
Heat (TJ)	0	0
Bioenergy (TJ)	158 001	148 885
Solar + geothermal (TJ)	0	0
Total (TJ)	178 604	166 133
Electricity share (%)	12	10
Consumption growth	2013-18	2017-18
Renewable electricity (%)	-16.3	-25.0
Other renewables (%)	-5.8	-0.9
Total (%)	-7.0	-4.1
Consumption by sector	2013	2018
Industry (TJ)	60 637	65 177
Transport (TJ)	0	0
Households (TJ)	112 206	96 340
Other (TJ)	5 761	4 616
	500	
Renewable share of TFEC	59.9	51.4

Renewable energy consumption in 2018



ELECTRICITY CAPACITY AND GENERATION

0.0

0.0

+ 3.2

Capacity in 2020	MW	%
Non-renewable	2 182	48
Renewable	2 352	52
Hydro/marine	1 815	40
Solar	230	5
Wind	252	6
Bioenergy	54	1
Geothermal	\cap	0
	0	•
Total	4 534	100
	4 534 2015-20	100
Total		
Total Capacity change (%)	2015-20	2019-20
Total Capacity change (%) Non-renewable	2015-20 + 5	2019-20
Total Capacity change (%) Non-renewable Renewable	2015-20 + 5 + 25	2019-20 0.0 + 6.3

Net capacity change in 2020 (MW)

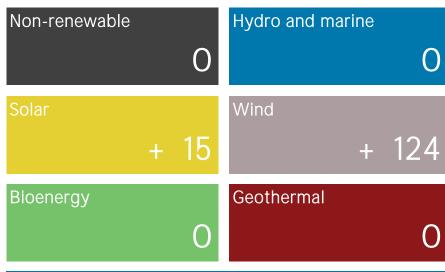
Bioenergy Geothermal

Total

+ 108

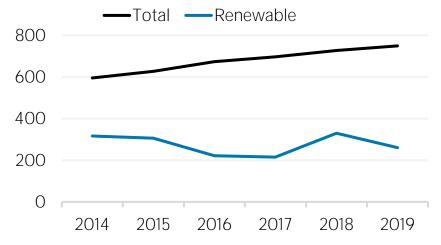
+ 14

0

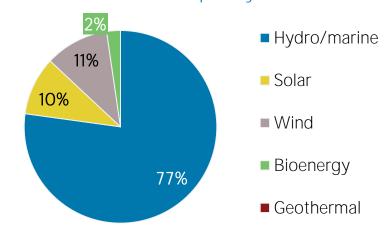


Generation in 2019	GWh	%
Non-renewable	10 415	65
Renewable	5 564	35
Hydro and marine	4 802	30
Solar	357	2
Wind	348	2
Bioenergy	57	0
Geothermal	0	0
Total	15 979	100

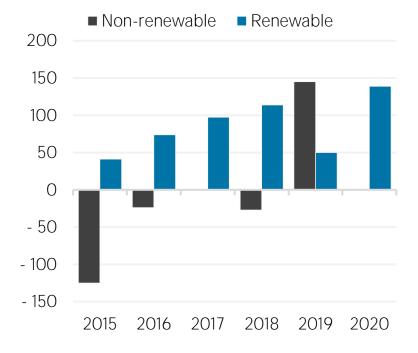
Per capita electricity generation (kWh)



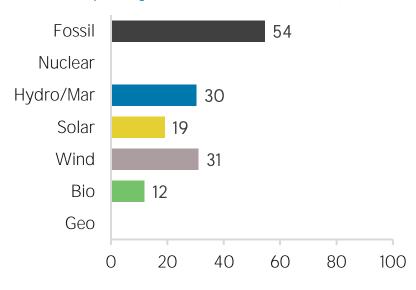
Renewable capacity in 2020



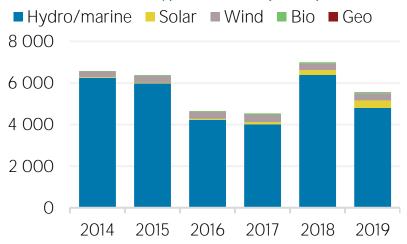
Net capacity change (MW)



Capacity utilisation in 2019 (%)



Renewable generation (GWh)



TARGETS, POLICIES AND MEASURES

Most immediate clean energy targets & NDCs				
	year	target		
Renewable energy:	2050	100 %		
Renewable electricity:	2020	60 %		
Renewable capacity:				
Renewable transport:				
Liquid Riofuel blanding mandate				

Liquid Biofuel blending mandate:

Other transport targets:

Renewable heating/cooling:

Renewable Hydropower

Off-grid renewable technologies:

Energy efficiency (Energy):

Energy efficiency (Electricity):

Latest policies, programmes and legislation

1 Energy Performance Standards of Appliances (Ceiling Fans) Regulations No. 1 of 2012

2013

References to sustainable energy in Nationally Determined Contribution (NDC)

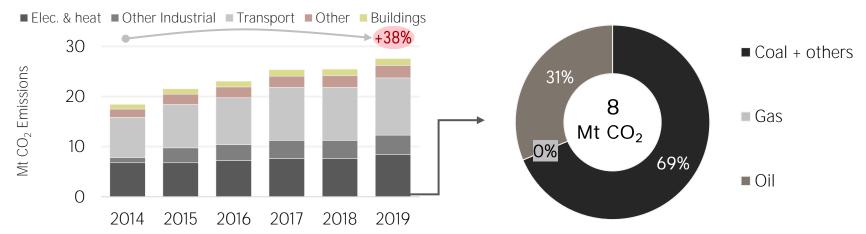
Conditional Unconditional unit

- Renewable energy
 - electricity
 - transport
 - heating/cooling
- Energy efficiency

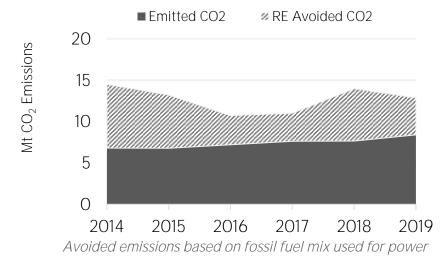
ENERGY AND EMISSIONS

Energy-related CO₂ emissions by sector

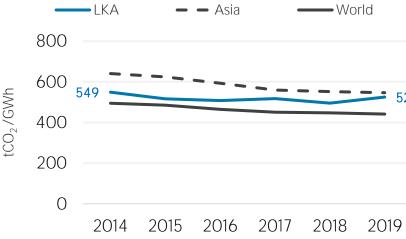
Elec. & heat generation CO₂ emissions in 2019



Avoided emissions from renewable elec. & heat

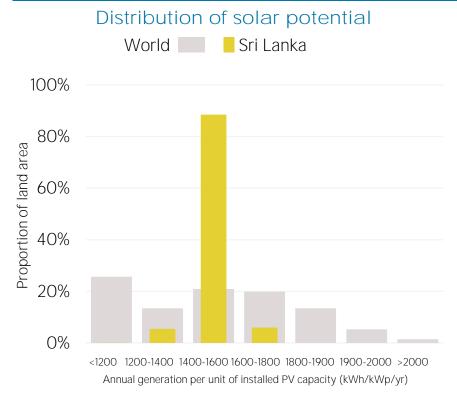


CO₂ emission factor for elec. & heat generation

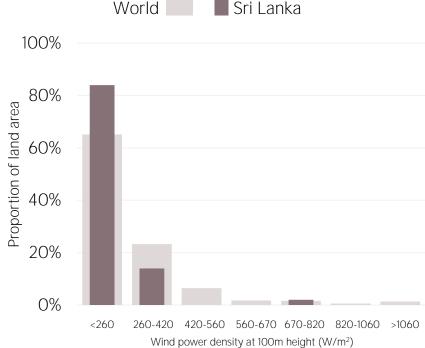


Calculated by dividing power sector emissions by elec. + heat gen.

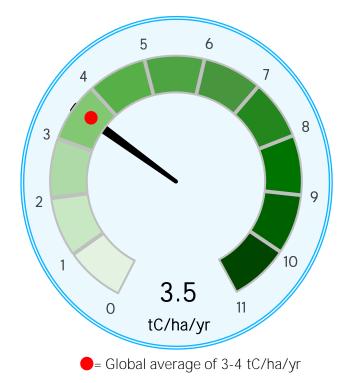
RENEWABLE RESOURCE POTENTIAL



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 per year.

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 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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