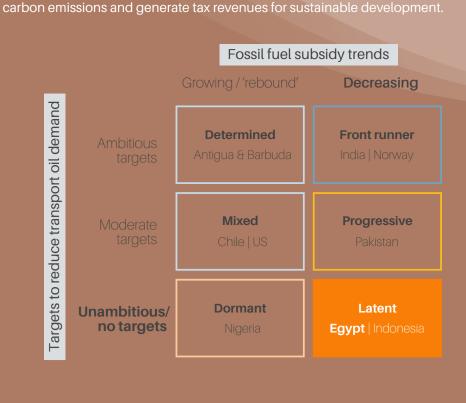
Nexus between Transport

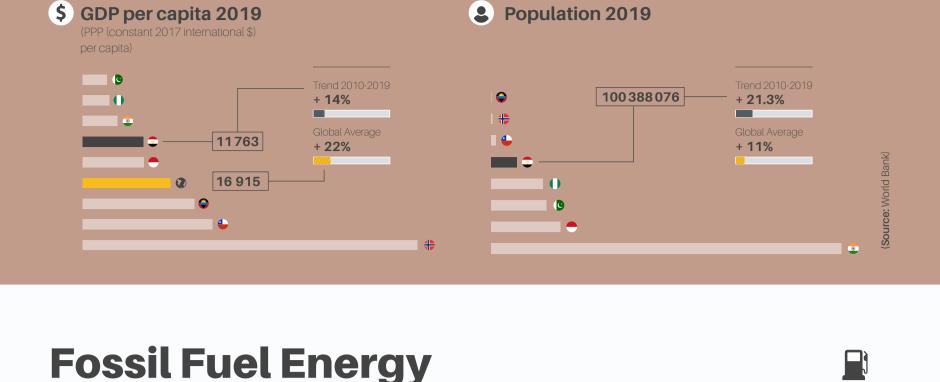
and Renewable Energy Country Typology Framework This framework is the basis for an analysis of fossil fuel subsidy reform and renewable energy scale up in the transport sector, which can reduce

Egypt

Egypt has relatively low levels of vehicle ownership and has had modest growth in transport CO₂ emissions in the past decade. However, it lacks detailed transport decarbonisation strategies, and its per-capita transport emissions are roughly double the Africa average. Continued fossil fuel subsidies consume public budgets that could be used to produce local renewable energy and transport jobs.

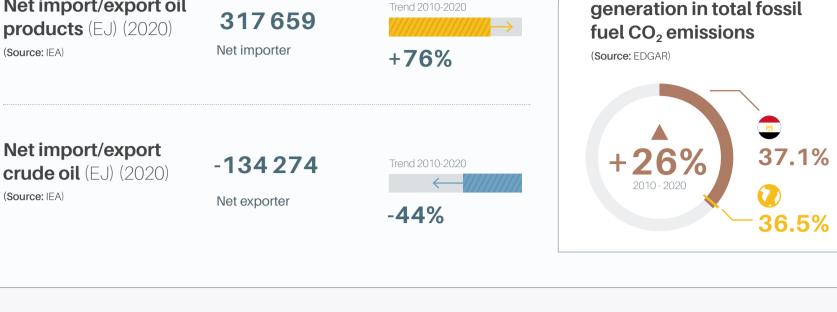


Share of power

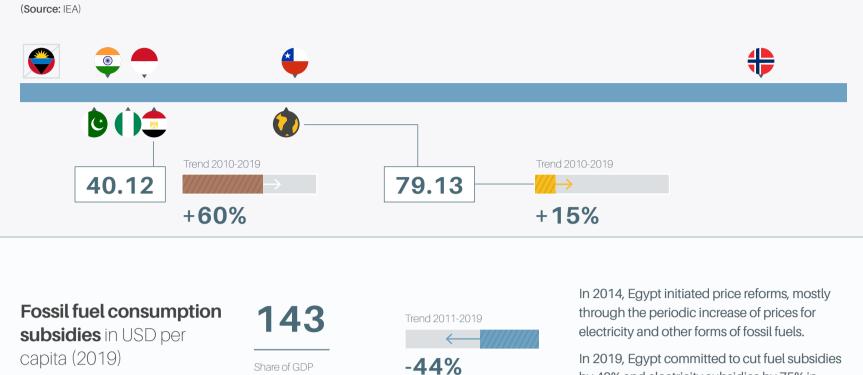




Total energy supply per **capita (TJ/cap)** (2019)



Trend 2010-2020





Renewable

generation

electricity target



Trend 2010-2019

+6%

Electricity generation (%)

Renewable Energy

Share of renewables in:

Primary energy* (%)

(Source: REN21)

Transport CO₂/capita

 $(t CO_2/cap) (2019)$

(Source: EDGAR, World Bank)

Electric Cars

Electric 2-wheelers

Electric 3-wheelers

Electric Buses



Trend 2010-2019

-0.2%

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2035

42%

power

generation

Carbon intensity of road

transport (gCO₂/MJ)

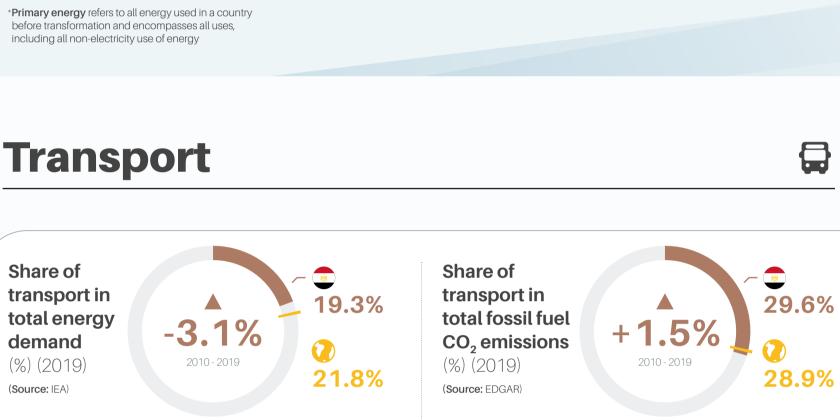
(Source: IEA)

no data available

including 12% wind, 2% solar

and 6% hydropower

(Source: GRO)





Growth

Egypt has started

Cairo in 2019.

(Source: TCC-GSR)

operating electric buses,

with fleets of 15 buses in

Alexandria in 2018 and

(2018 - 2019)

Number sold

(2019)

Growth

Egypt's Ministry of Local

Development announced in September 2021 a plan

to provide 100 new electric

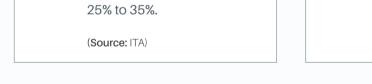
buses for Egyptian cities.

(Source: ET)

(2018 - 2019)

Total number

in use (2019)

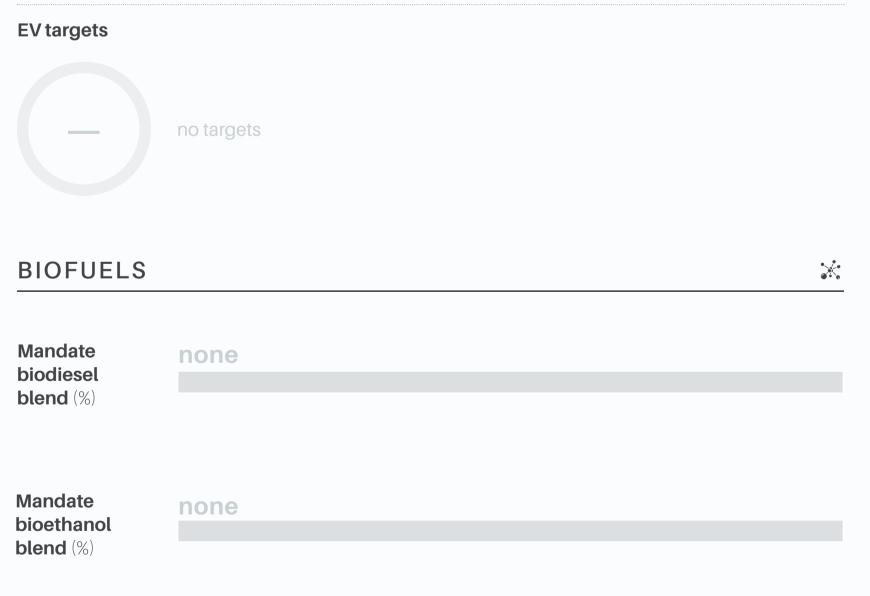


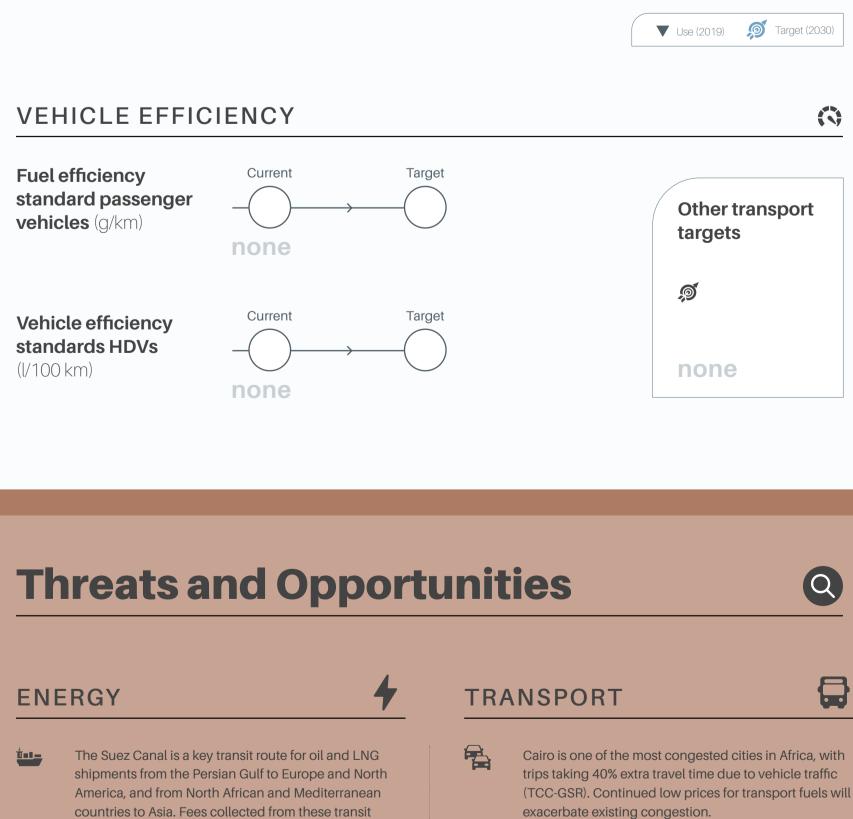
Egypt has exempted

tariffs for electric cars and

increased tariff discounts

for natural gas cars from





and projected decreasing global demand for oil due to Egypt's mobility system. emerging national climate policies, Egypt's oil export revenues could drop further. This poses a challenge for maintaining fossil fuel subsidies while investing in renewable energy to reach national targets.

routes are significant sources of revenue for the

With increasing domestic demand for transport fuel

Electricity generation capacity is now struggling to keep up with growing demand (IRENA). Expanded transport electrification will increase current challenges to provide sufficient power, and added demand will need to be considered in planning generation capacity.

Egypt has an abundance of renewable energy

resources, and most renewable technologies are

already cheaper to implement than conventional

need for fossil fuel subsidies.

alternatives (IRENA). Expanding renewables generation

could reduce energy system costs and eliminate the

Savings from reduced subsidies have previously been

redirected to Egypt's health and education systems

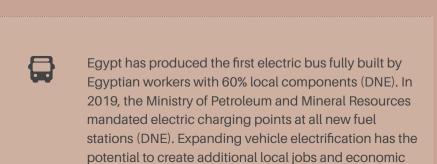
(ESMAP). Further reform measures could benefit

Egyptian government (EIA)

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Egypt is one of only four African countries that has

imposed an outright ban on used vehicle imports

thus reducing congestion and enabling enhanced

opportunities.

transport access for all.

Increasing motorisation rates and a fast-growing urban

population - which is concentrated in about 5% of the

country's area - will further deteriorate functioning of



OPPORTUNITIES

Partnership on Sustainable,

Low Carbon Transport