and Renewable Energy

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 carbon emissions and generate tax revenues for sustainable development.

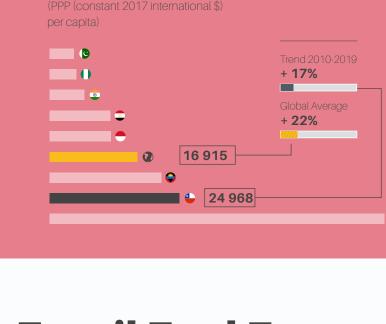
Country Typology Framework



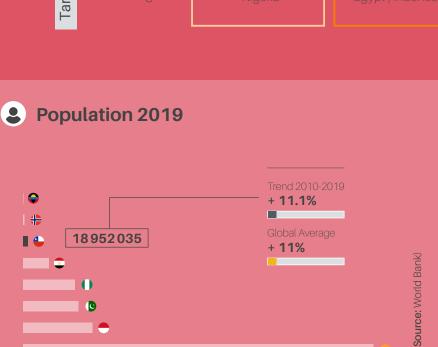
## Chile

Chile has set ambitious targets to increase renewable energy and transition to more sustainable transport. Existing fossil fuel subsidies send mixed market signals and impede this envisaged transformation. Funds for subsidies could be reallocated to enhance implementation of low-carbon transport measures and to remedy averse social impacts of unequal transport access.

## Fossil fuel subsidy trends Growing / 'rebound' Targets to reduce transport oil demand **Determined Front runner** Mixed **Progressive Moderate** targets Chile | US **Dormant** Latent



GDP per capita 2019



fuel CO<sub>2</sub> emissions

38.7%

Additionally, Chile has the target of 45-48% of electricity generation from hydropower by 2024

30.8%

21.8%

= 1 Inhabitant

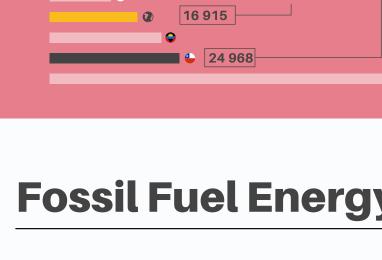
Growth

68.4%

(2018-2019)

2010 - 2019

(Source: EDGAR)



products (EJ) (2020)

**Net import/export** 

**crude oil** (EJ) (2020)

(Source: IEA)

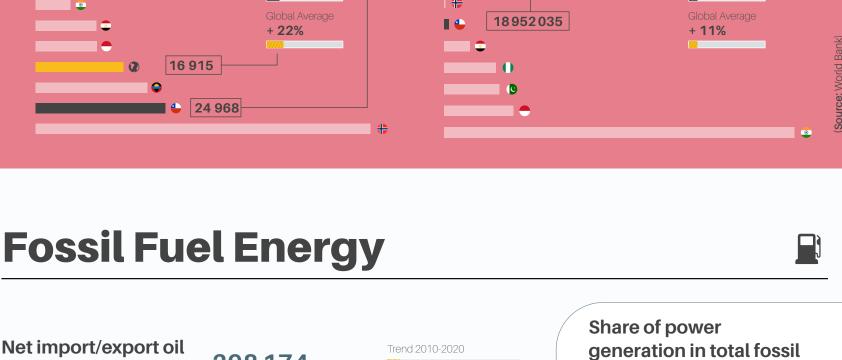
(Source: IEA)

298 174

313480

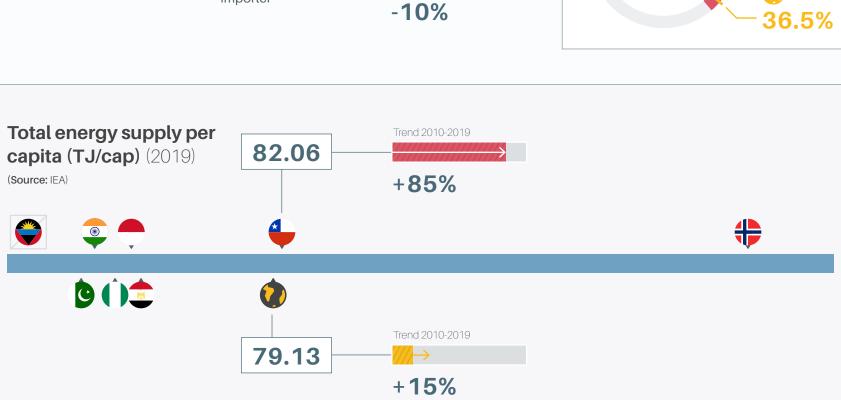
Importer

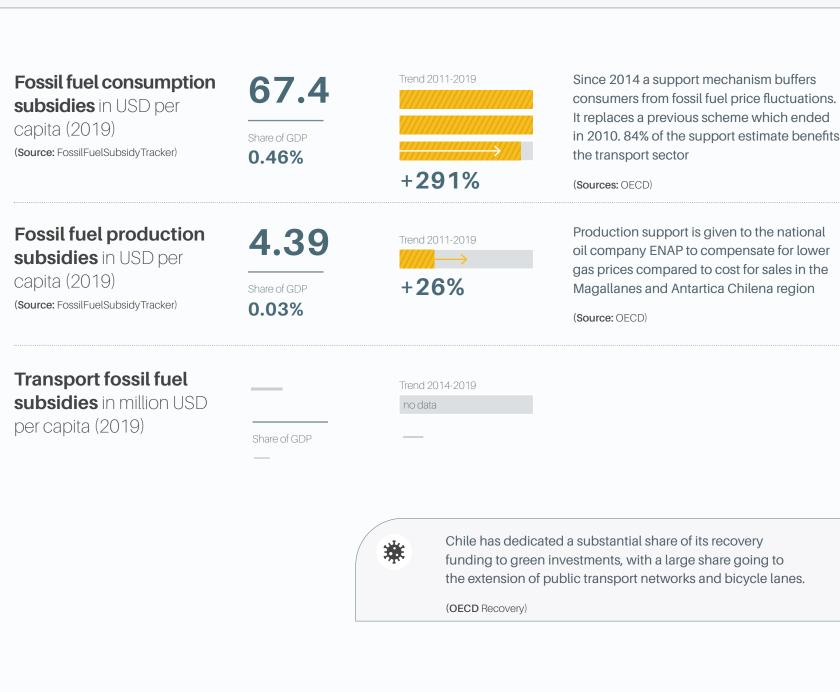
Net importer

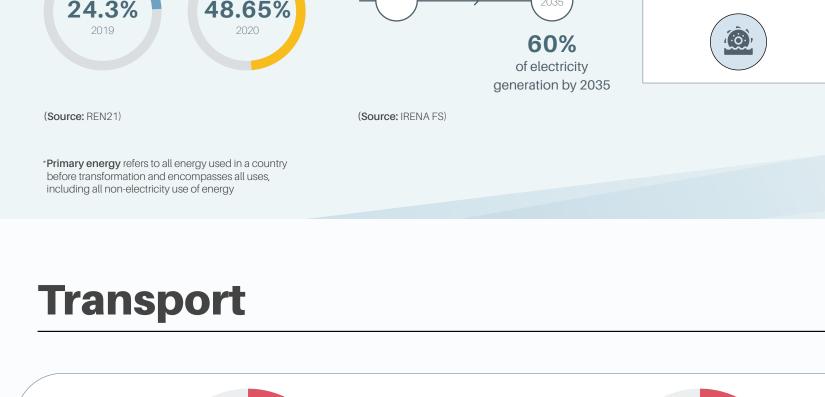


+10%

Trend 2010-2020







34.0%

28.9%

Share of

(%) (2019)

(Source: EDGAR)

transport in

total fossil fuel

CO<sub>2</sub> emissions

Renewable

electricity target

Renewable Energy

Electricity generation (%)

2010 - 2019

(Source: OICA) \* passenger cars and commercial vehicles

**Electric Cars** 

biodiesel blend (%)

**Electric 2-wheelers** 

**Electric 3-wheelers** 

VEHICLE ELECTRIFICATION

**Total number** 

in use (2019)

642

Share of renewables in:

Primary energy\* (%)

**Share of** 

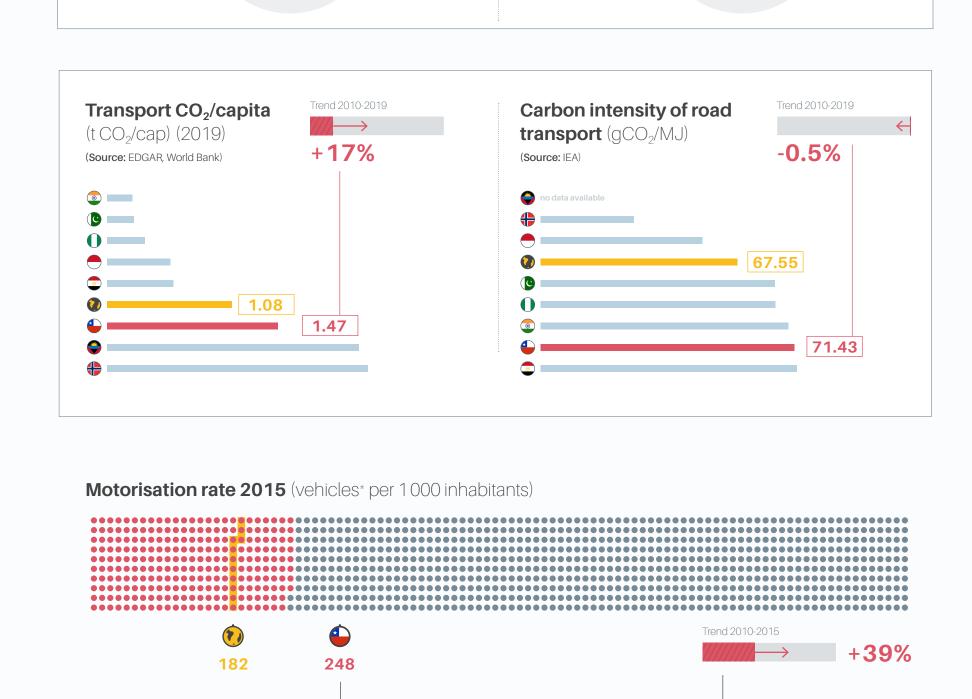
demand

(%) (2019)

(Source: IEA)

transport in

total energy



Growth

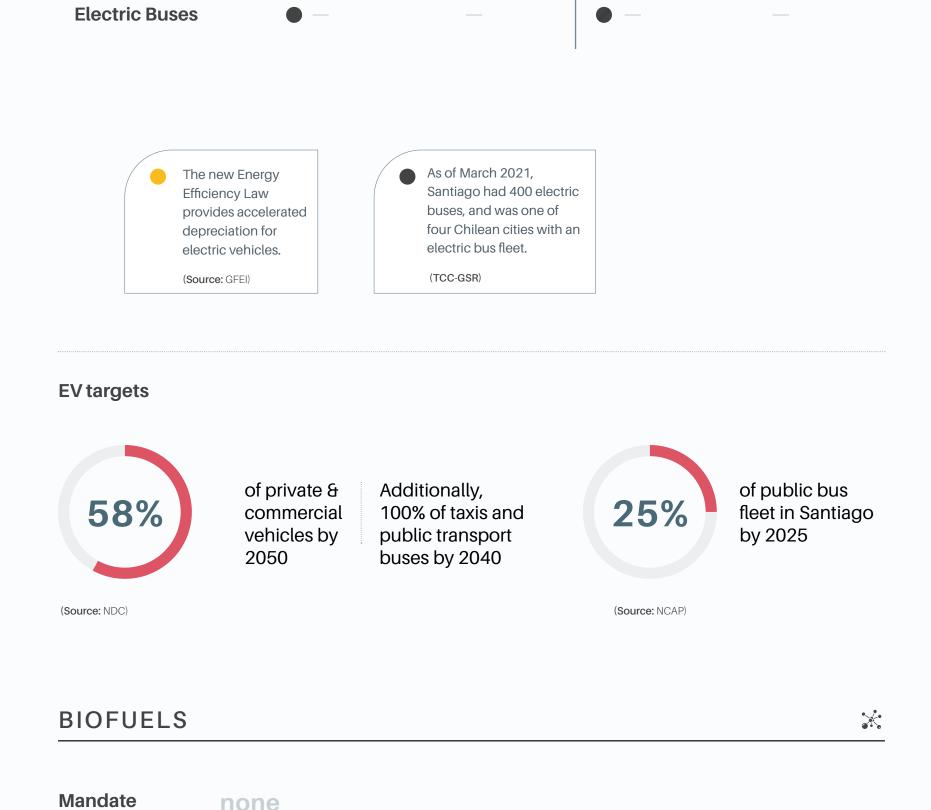
57%

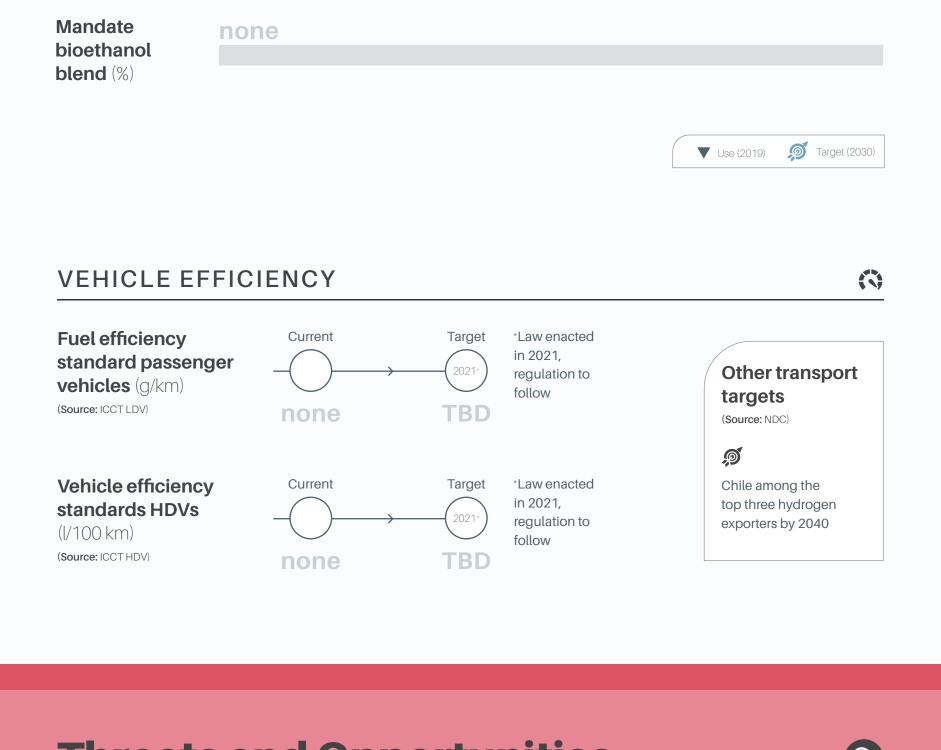
(2018-2019)

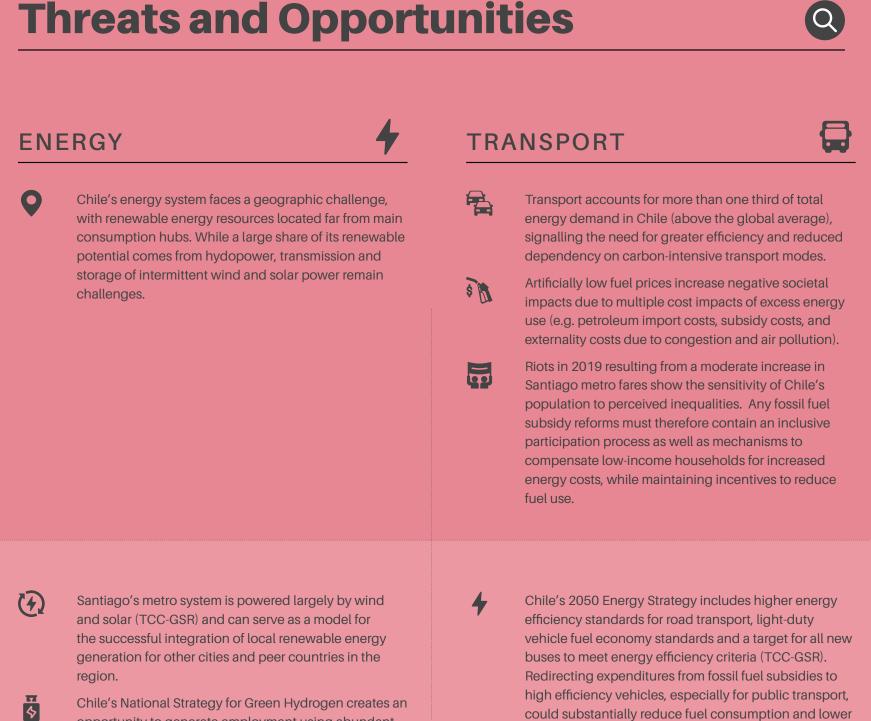
Number sold

(2019)

**298** 







IRENA FS | NCAP | OECD | OECD Recovery | OICA |

REN21 | TCC-GSR | UNEP | World Bank

opportunity to generate employment using abundant

of the top three hydrogen exporters by 2040 (TCC-

local renewable energy sources to reduce dependence on imported fuel. The Strategy envisions Chile as one

GSR). Redirecting some of the funds currently used for

fossil fuel subsidies could enhance this transformation

through investments in renewable energy capacity,

commercialisation of green hydrogen.

hydrogen research and development and support for

development around the world

Advancing climate-resilient low emission

**₽** ∫

24

could substantially reduce fuel consumption and lower

Enhanced electrification can reduce the need for

expensive oil imports, thus reducing the need for fuel

subsidies. Santiago's electric bus fleet is envisioned to

grow from 973 as of 2021 to 5,300 by the end of 2022,

Savings from reduced fuel subsidies could be used to

expand electrification to two- and three-wheelers and fleet vehicles, such as taxis and small delivery vans.

with a goal of 100% electric public transport in the

needs for oil imports.

country by 2040 (TCC-GSR).

Sources