



CHILE

Deep Transition and Integration of Power and Transport Systems

APEC project EWG 10 2018A
Low Emissions Development Strategies: Supporting the Transition to
Energy-Efficient, Electric-Transport Systems



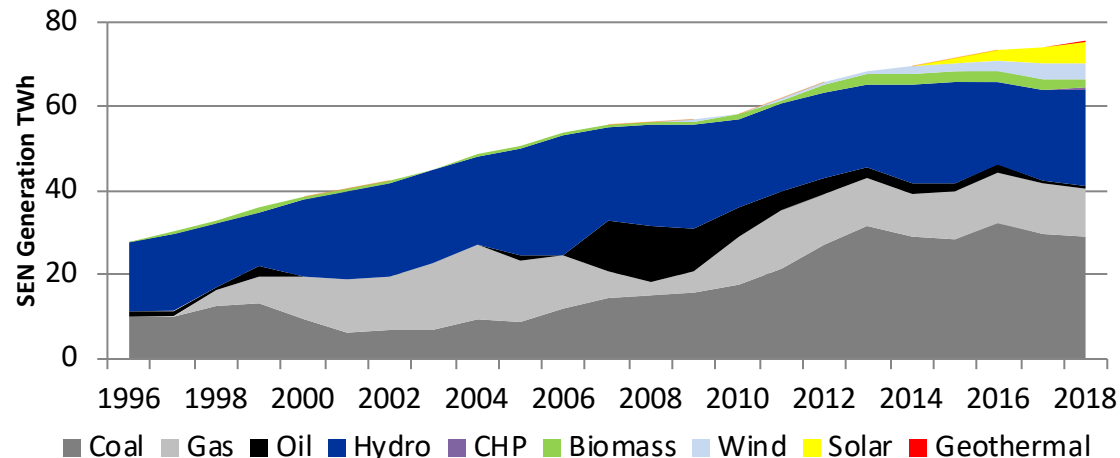
Introduction

- Introductions of economy representative/team members:
 - Julio Cuadra, Head of Access and Social Development Division, Ministry of Energy . Rural electrification and public investment expert in isolated and remote areas.
 - Cristian Terongo, professional at Easter Island local Government. He manages all local data and information.
 - Carlos Vial, professional at Sustainable Energy Division, Ministry of Energy. Working on different topics from the Division including Efficient Transport and Electromobility.

Current status of electricity and transport systems in Chile

Electricity

- In 2018, 46% of renewable generation (18% of NCRE)
- Development of renewables at all scales
- Phase out plan of coal power plants by 2040 (!)
- Untapped renewable potential of 1,749 GW



Transport

- 36% of total energy consumption.
- Chile's high dependency from imported fossil fuels and 99% of transport relies on them.
- 24% of Chile's green gas emissions.
- Development of Electromobility with focus on public transport and commercial fleets.
- **1,150 EVs** in Chile with **423 electric buses**.
- Public charging infrastructure with **112 chargers**.

Rapa Nui's Challenges

Diesel generating system (~99%)
Dependency of imported fossil fuels

More than 3,000 km away from the continent
Overwhelmed distribution system

Vision and goals for sustainable energy and transport

Sustainable Energy

Chile committed (in June 2019) to reach **carbon neutrality by 2050**

- Strategy under **Energy Roadmap 2018-2022** and **Long-Term Energy Policy** (update in process)
- Wide policy range towards carbon neutrality
 - Phase out plan of coal power plants by 2040
 - Development of flexibles systems for massive renewables integration
 - Energy Efficiency Bill under discussion in Congress
 - Thermal Use (Heating and Cooling) (strategy under development)
 - Green Hydrogen & Power-to-X
 - District Heating

Transport

2022	10x EV in 4 years
2040	100% public transport electric
2050	40% private electric vehicles

- Under **National Strategy for Electromobility** and **Energy Roadmap 2018-2022**
- Developing e-mobility with **HOLISTIC approach**
 - Focus on public transport and commercial fleets
 - Private–Public Partnerships
 - Energy efficiency vehicle labeling in place
 - Efficiency standards for vehicles (Bill in Congress)
 - Safety and standards for charging infrastructure regulation (under development)
 - Interoperability

Setting expectations

- What would really move our economy forward?
 - Opportunities in Carbon Neutrality
- What will make this conference a really valuable use of our time?
 - Show opportunities or roadmaps to achieve higher penetration of renewables and EV in isolated islands.
- What am I bringing to the conference?
 - Seasoned experience in a Developing Country to develop and increase penetration of renewables.
 - Experience in developing and implementing policy towards this goals.
- What do I expect to take away from it?
 - Experience of other economies.
 - Future collaboration opportunities with other economies.