



Ministerio de
Energía

Gobierno de Chile

Hydrogen and Ammonia Policy and Development in CHILE

Josefina Ramos

Division of Energy Policy and Environmental Studies



Agenda

1. Economic background
2. Energy background for green hydrogen development
3. Green hydrogen and ammonia policy and development in Chile



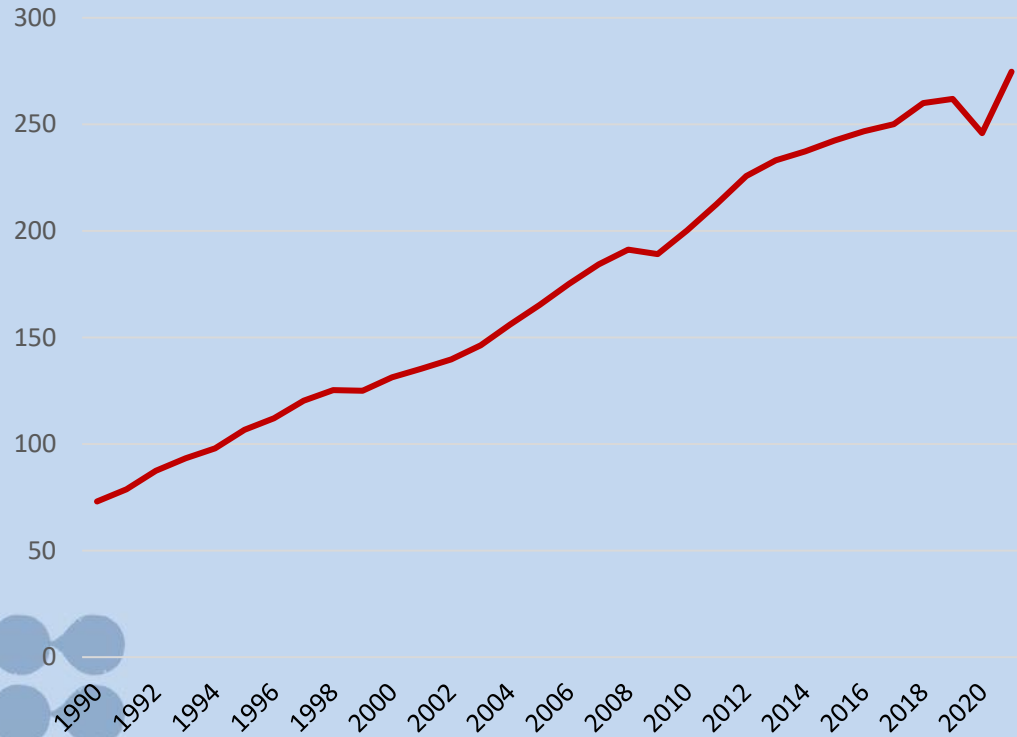
ECONOMIC BACKGROUND

- **Total Land area: 756,626 km² (only continental territory) and 6,435 km of coast.**
- **Population (2022): 19,603,733**

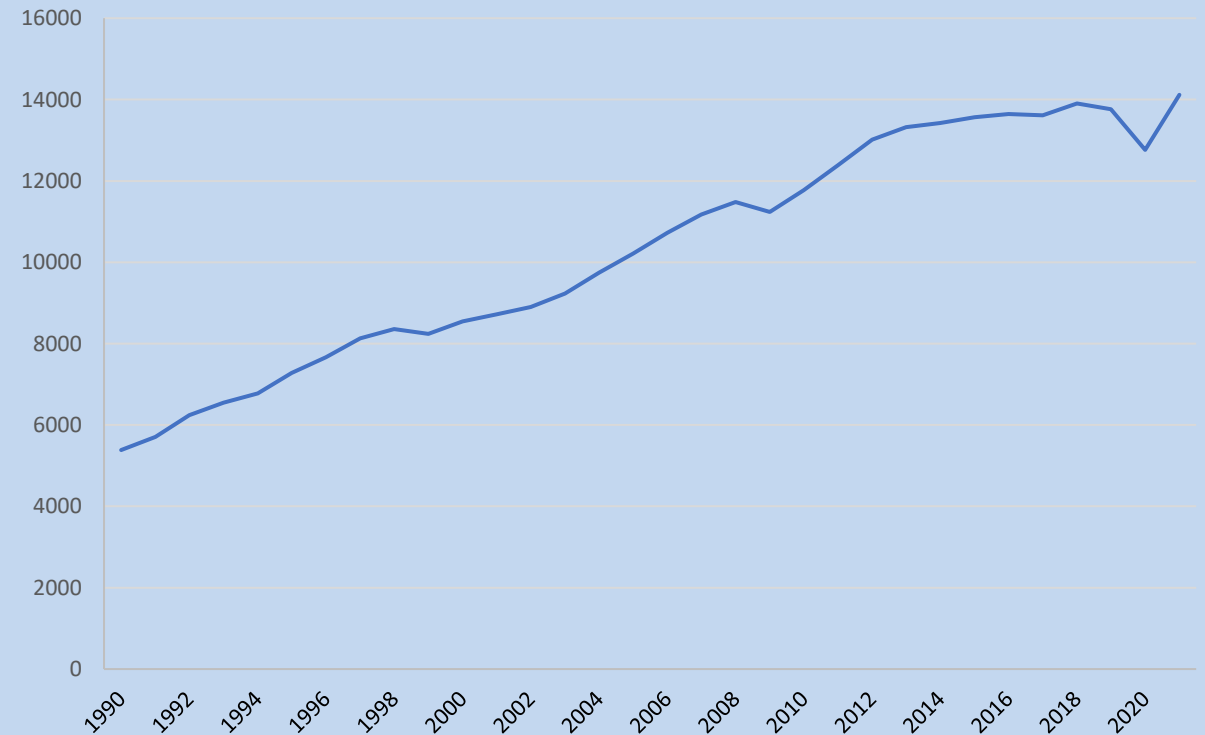


- **Real GDP (2022): USD 281.48 Billion (in USD of 2015)**
- **Real GDP per capita (2021): 16,265 USD**

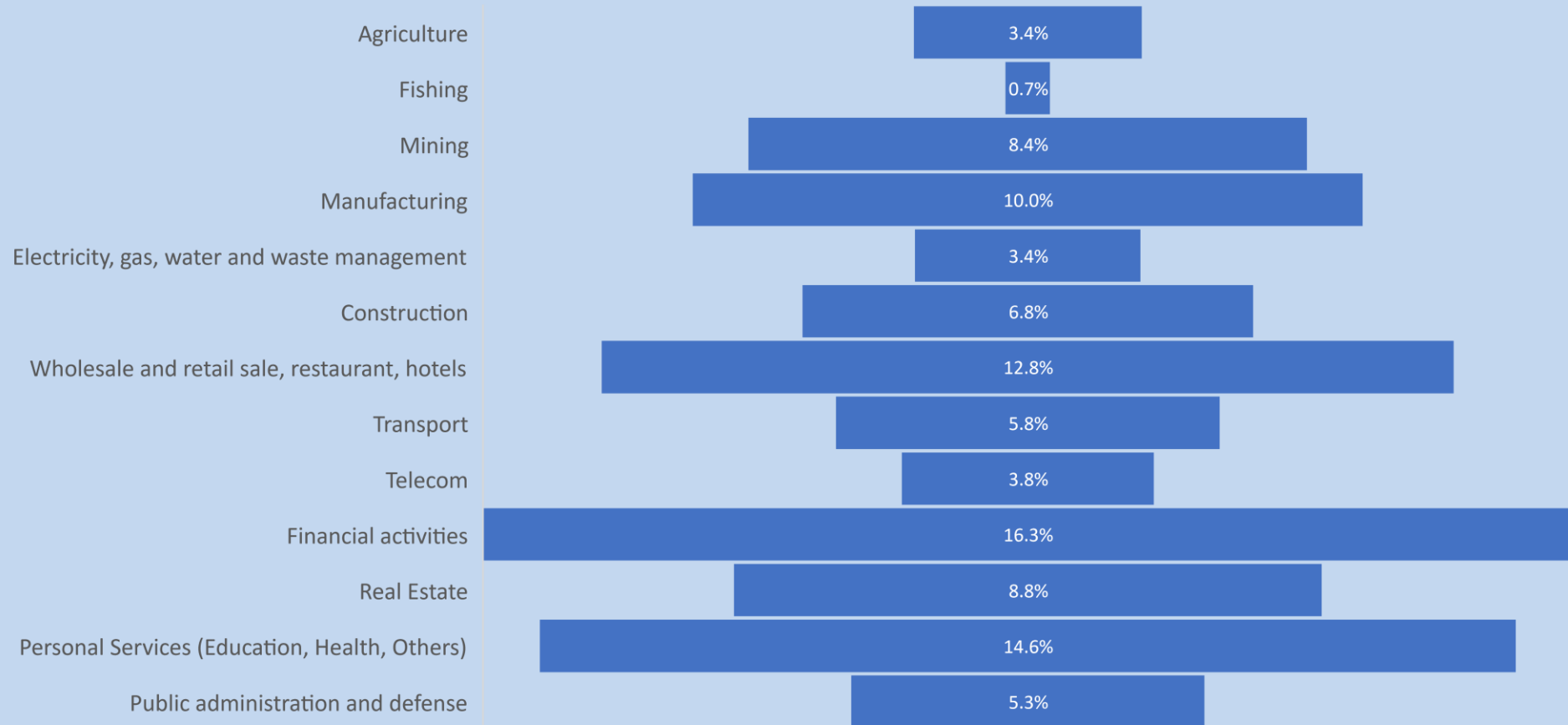
GDP (billion 2015 USD)



GDP per capita (constant 2015 US\$)



- GDP per economic sector**

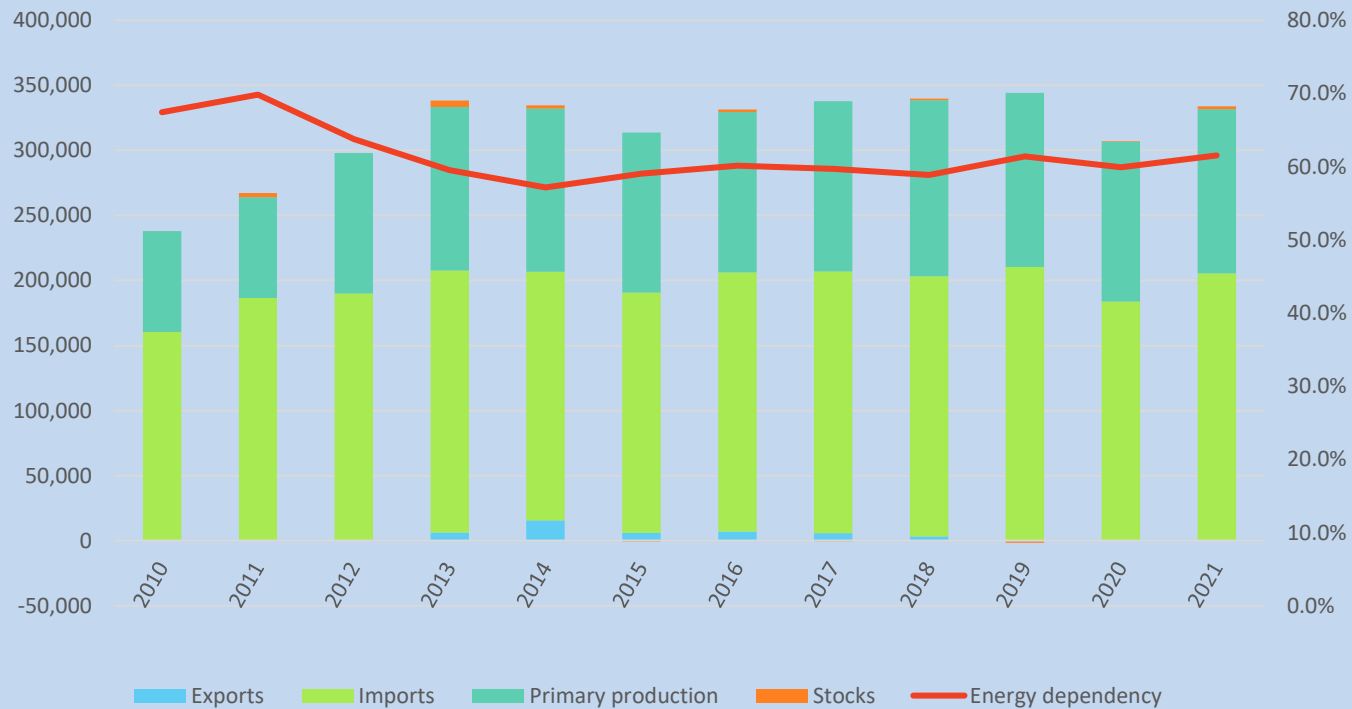




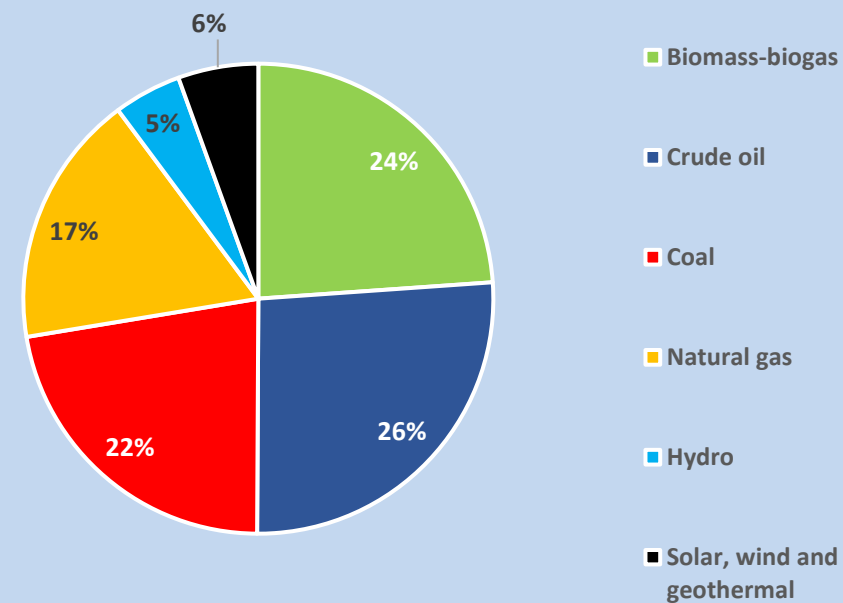
ENERGY BACKGROUND FOR GREEN HYDROGEN DEVELOPMENT

Total Primary Energy Supply

Total Primary Energy Supply, Tcal

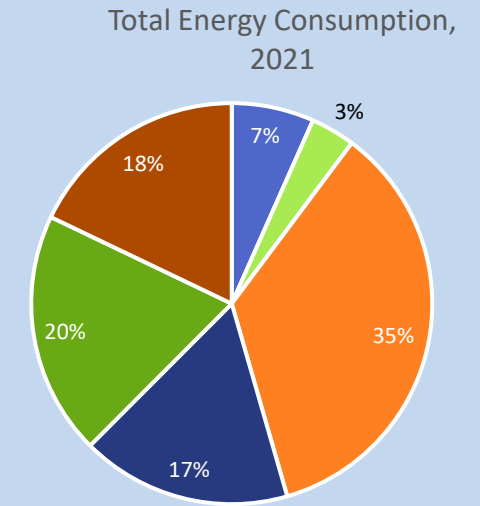
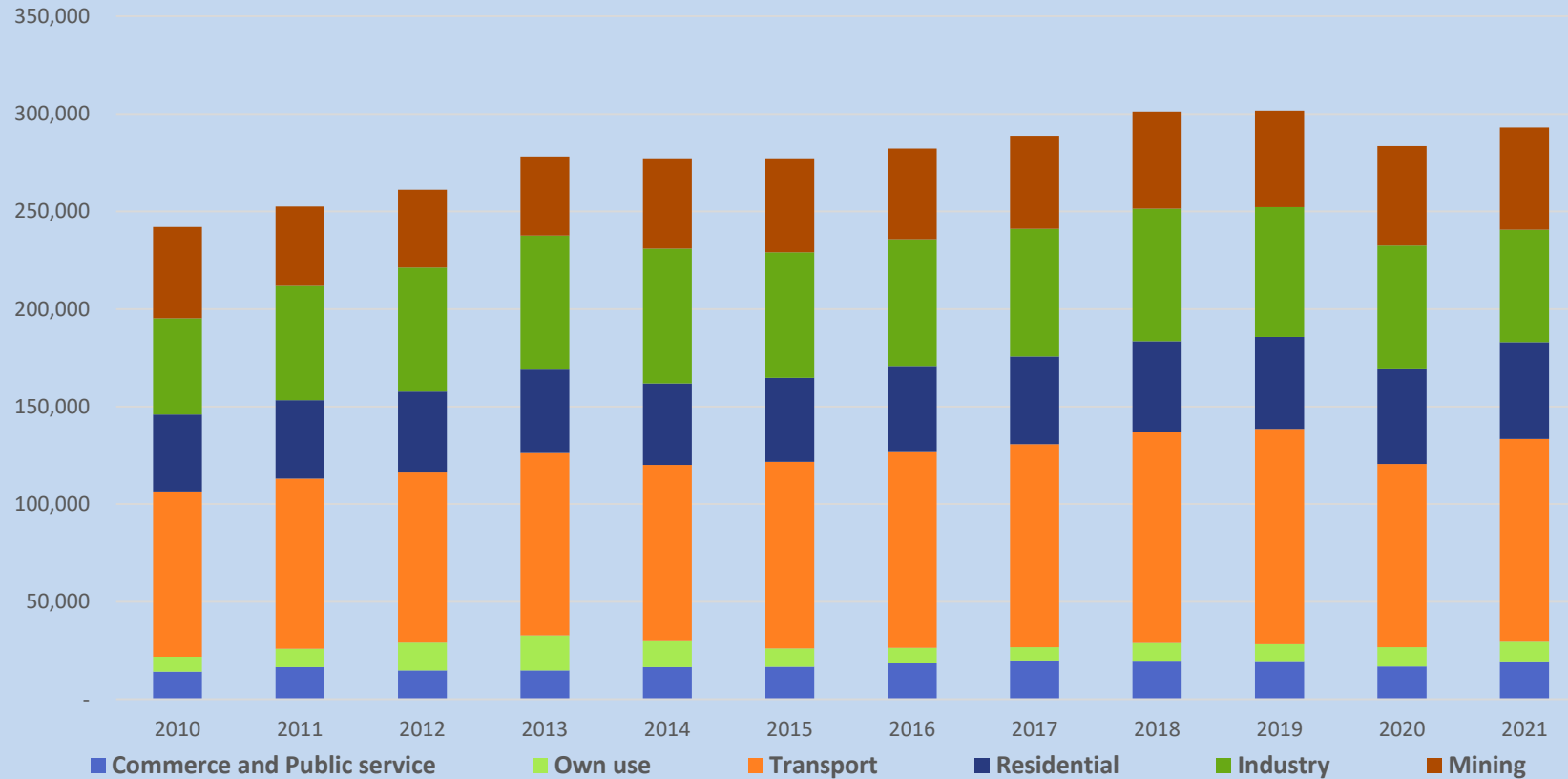


Total Primary Energy Supply, 2021



1 Tcal= 0,1 ktoe = 4,184 TJ = 1162 MWh

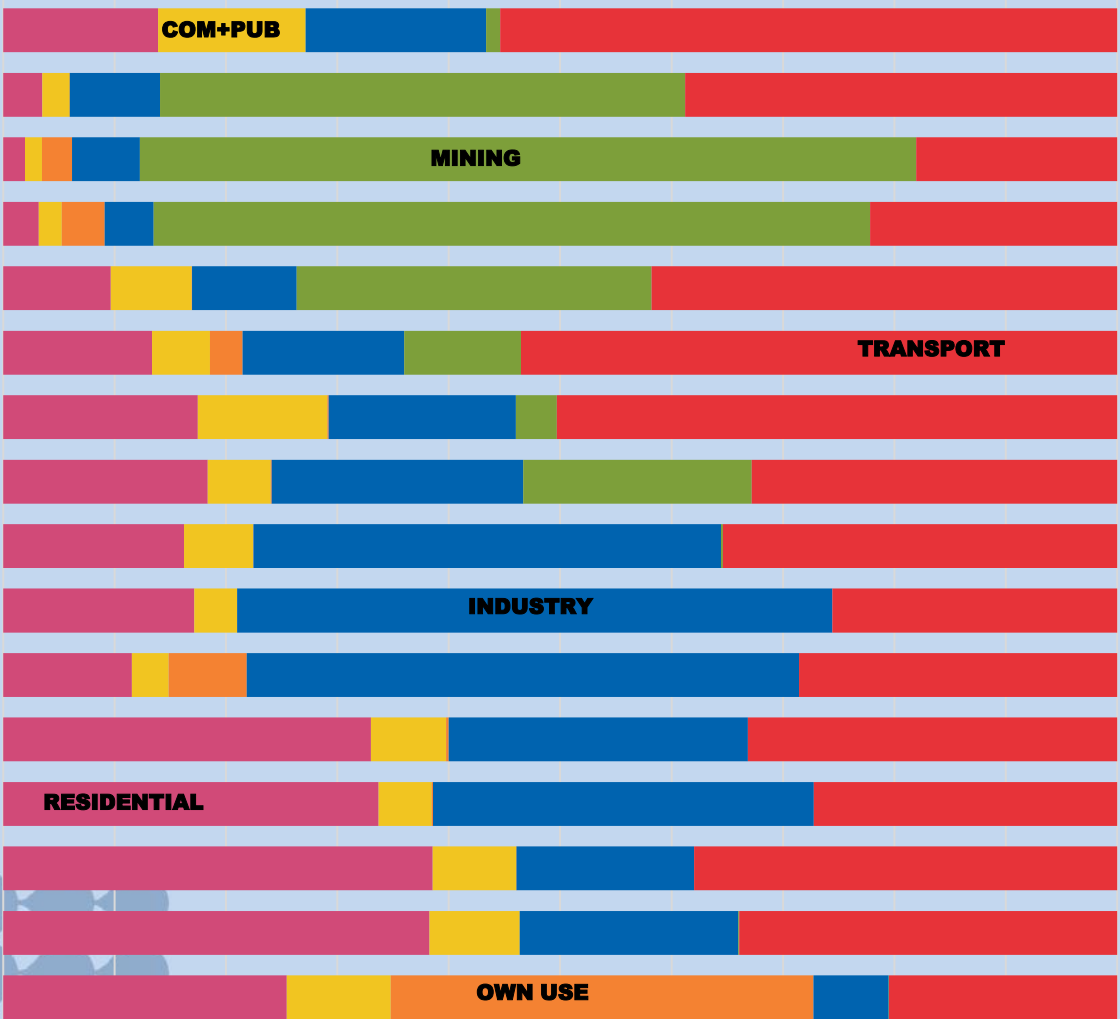
Total final energy consumption, 2021



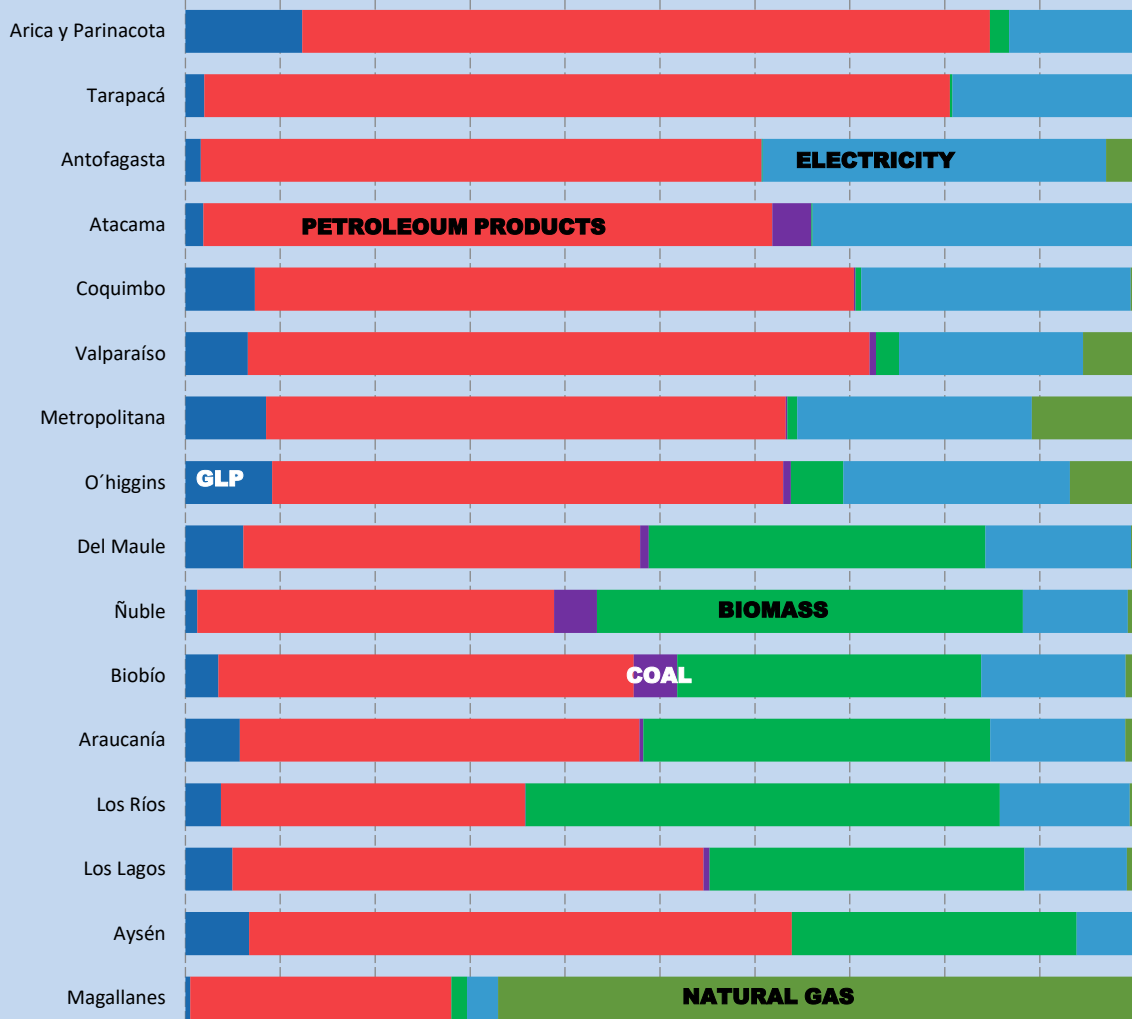
1 Tcal= 0,1 ktoe = 4,184 TJ = 1162 MWh

Distribution of the consumption by region

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



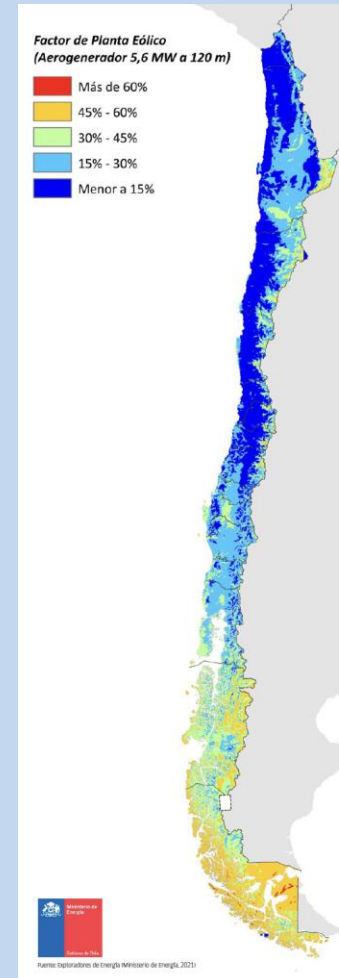
0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



Renewable Energy Potential

- 81 GW Wind
- 2,086 GW Solar PV
- 10 GW Hydropower
- 152 GW CSP

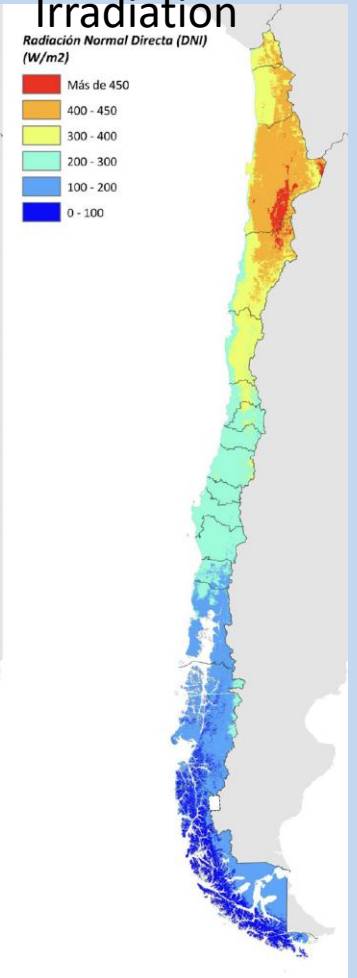
Wind



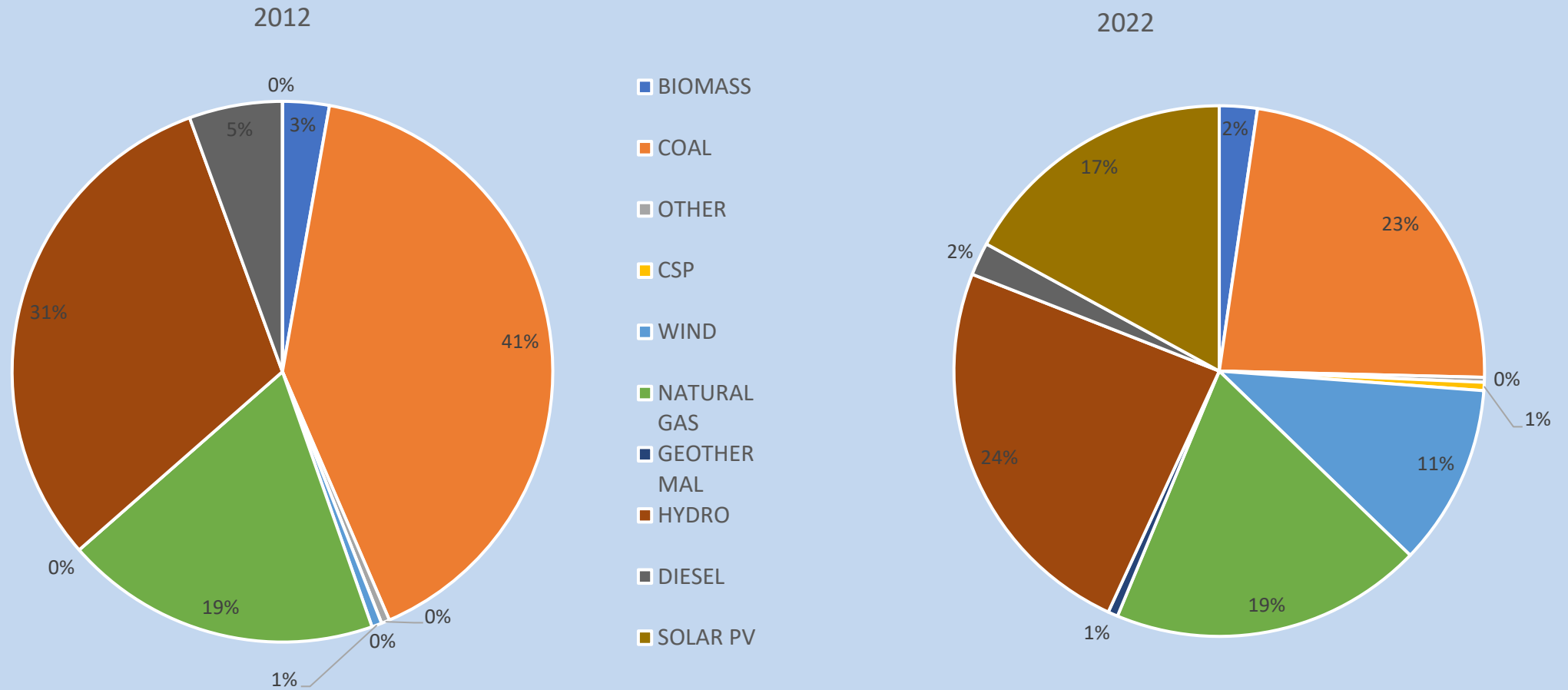
Solar PV



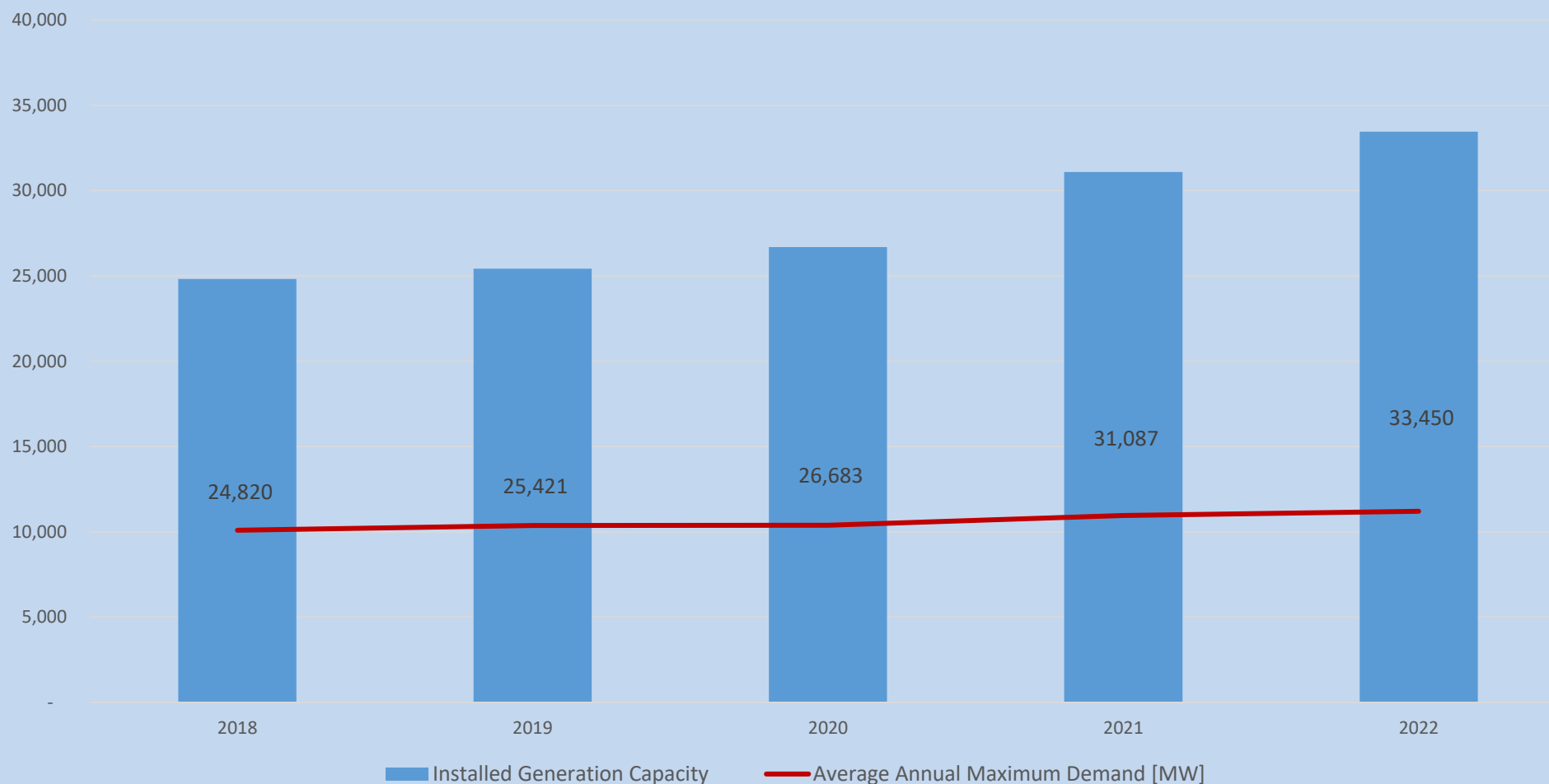
Direct Normal
Irradiation



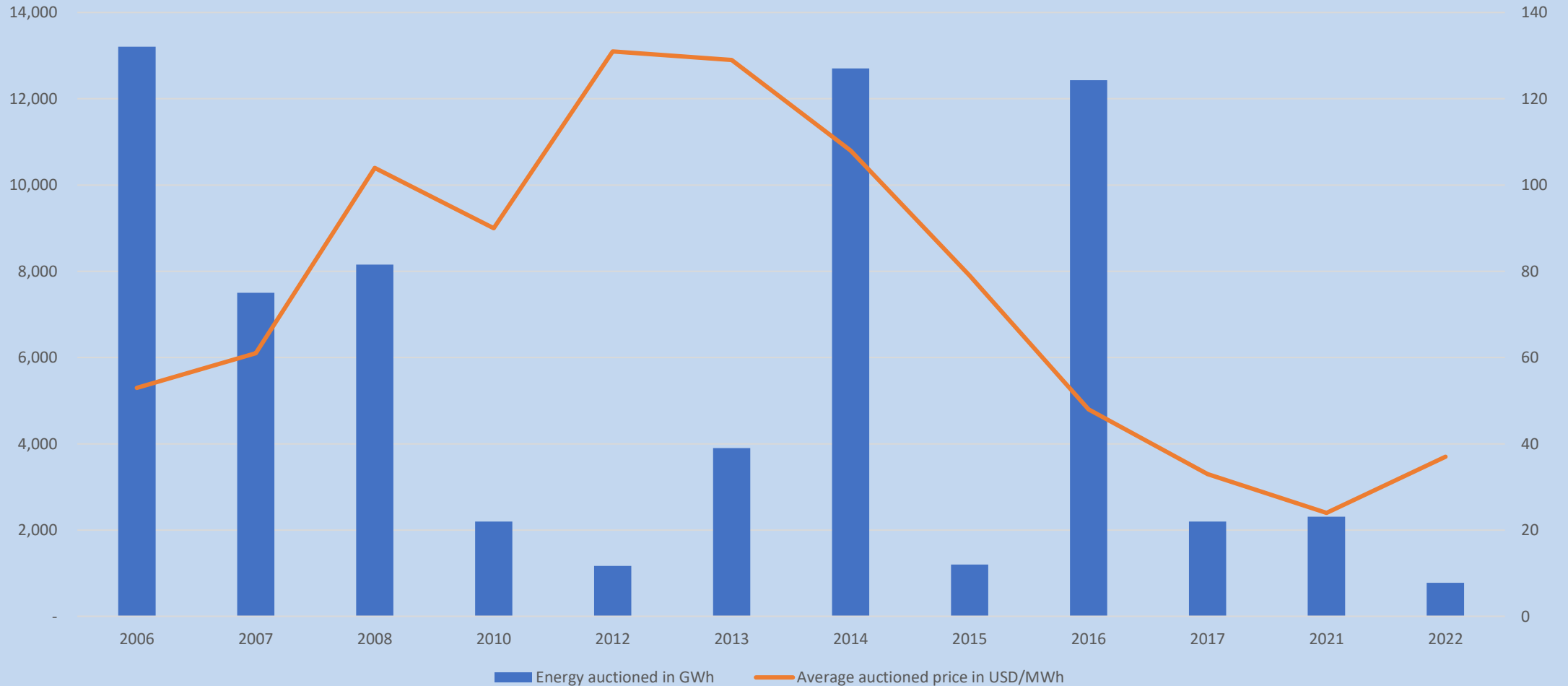
Electric Generation by technology



Evolution of generation installed capacity (MW) and average maximum demand



Energy and prices auctioned





GREEN HYDROGEN AND AMMONIA POLICY AND DEVELOPMENT IN CHILE

Hierarchy of our Energy Policy Instruments

Long Term Energy Policy

Strategies

Action plans and Government Agenda



Our ambition

2025



Top
destination for
green hydrogen
investment in
LATAM



Electrolysis
capacity operating
and under
development

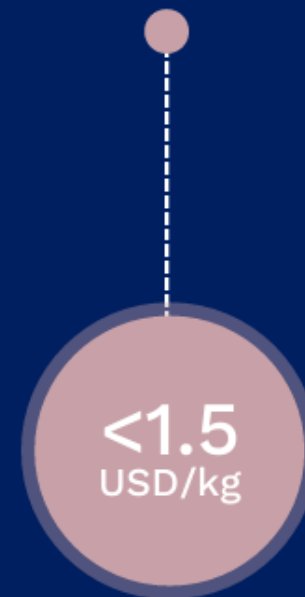


Production in at
least 2
hydrogen
valleys in Chile

Leaders in
export of
green
hydrogen and
derivatives



The cheapest
green hydrogen
on the planet



Leaders in
production of
green
hydrogen via
electrolysis



2030

We have achieved some key milestones for promoting H2

50 MUSD

First call for financing green hydrogen projects

Funding round for 10+ MW electrolyzer facilities

International Outreach

MoU's for collaboration and co-leadership of MIH2

MoUs with Singapur, Port of Rotterdam, Antwerp and Hamburg.

+1 MUSD

International Technical cooperation on hydrogen

Studies development and funding in cooperation with IDB, WB, AGCID, GIZ

Fast-track piloting

3 guideline for H2 tech in production, mining, and transport

Streamlined approval processes for pilot initiatives

+600 MUSD

H2 Facility

Agreements with IDB and WB to facilitate access to financing

Hydrogen regulation roadmap

H2 Facilities norm

Currently under review for approval

+ 40 projects under development



- Pre-fid
- Development
- Operation



Note:
Project's location only referential Developers highlighted in turquoise



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