

# VI Reunión Plenaria Foro FOREPLEN

## Impulso y proyección del hidrógeno verde

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*Ministerio de Energía – Chile*

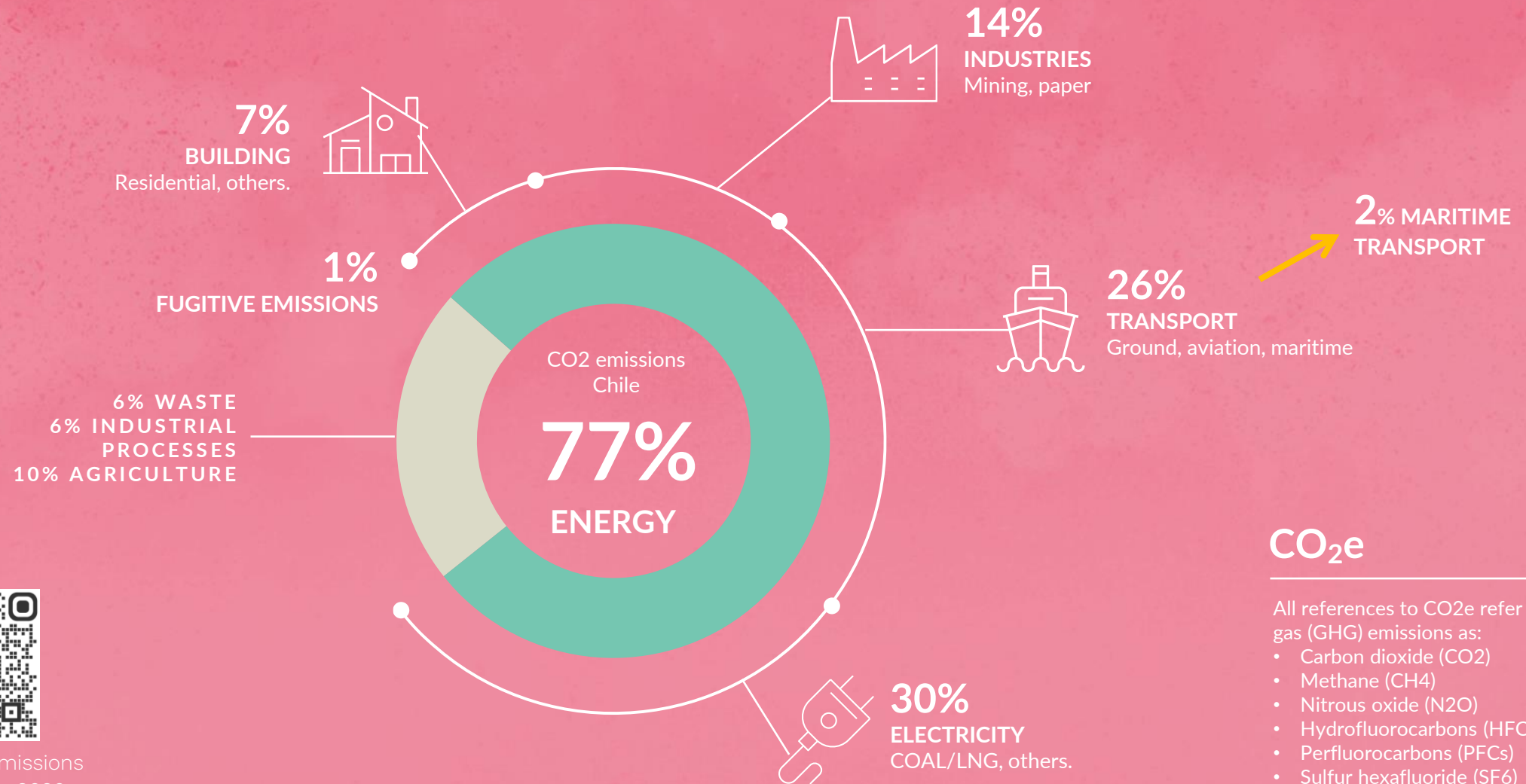
*División de Planificación Energética y Desarrollo Sustentable*

*Diciembre, 2022*





# Climate Change and Energy: problems, challenges and opportunities



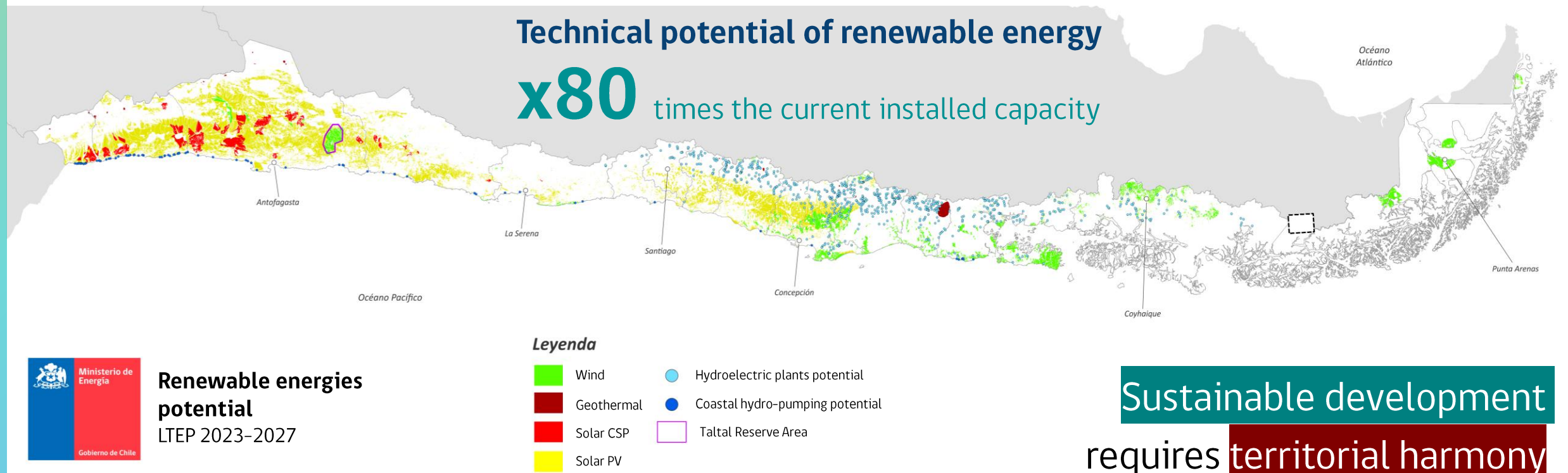
National GHG Emissions  
Inventory Chile 2020  
**Ministry of Environment**

# Chile's energy context



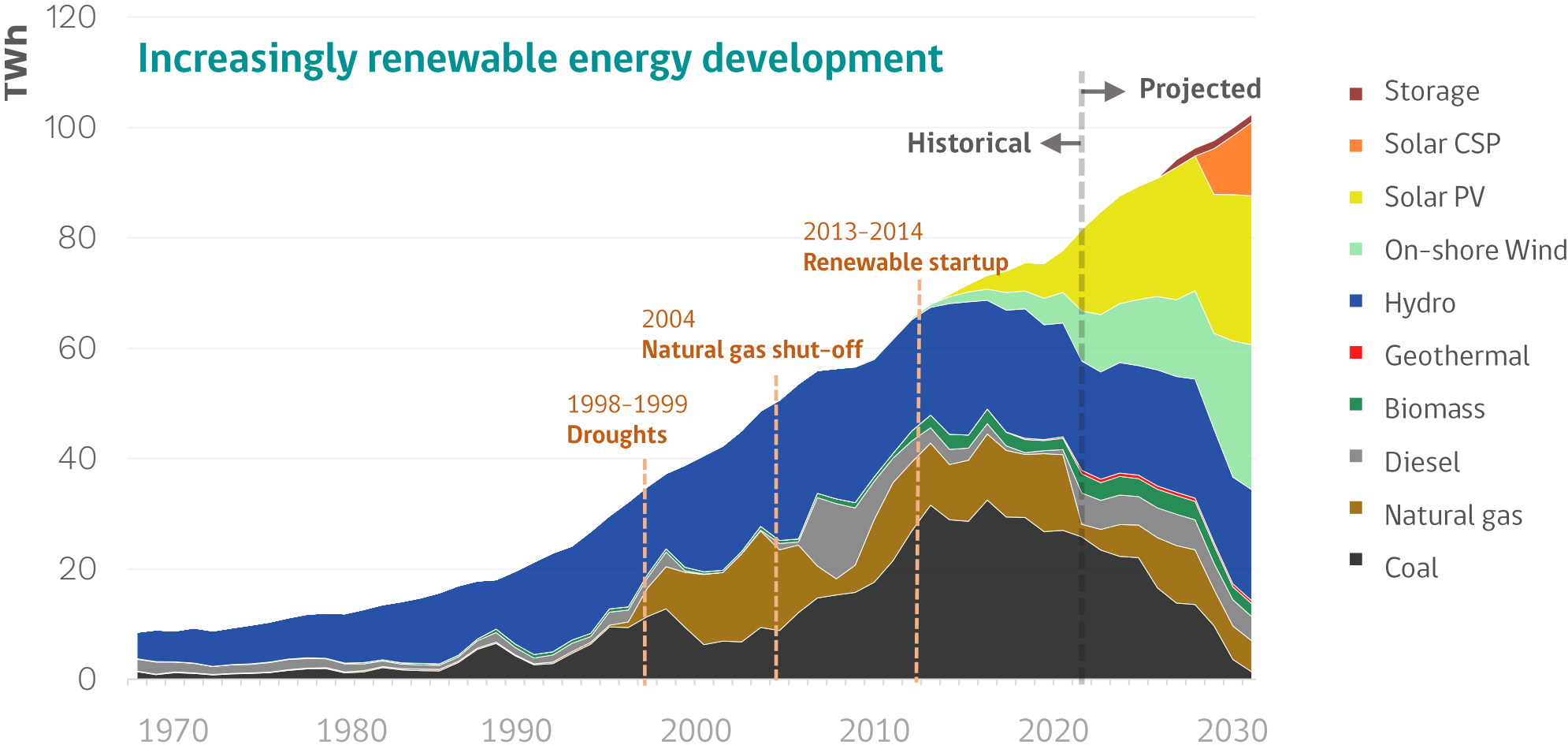
Renewable potential  
PELP 2023-2027

- Very scarce fossil fuels, **high availability** of **renewable energy resources**
- Mainly private energy market with an articulating and regulating role of the State

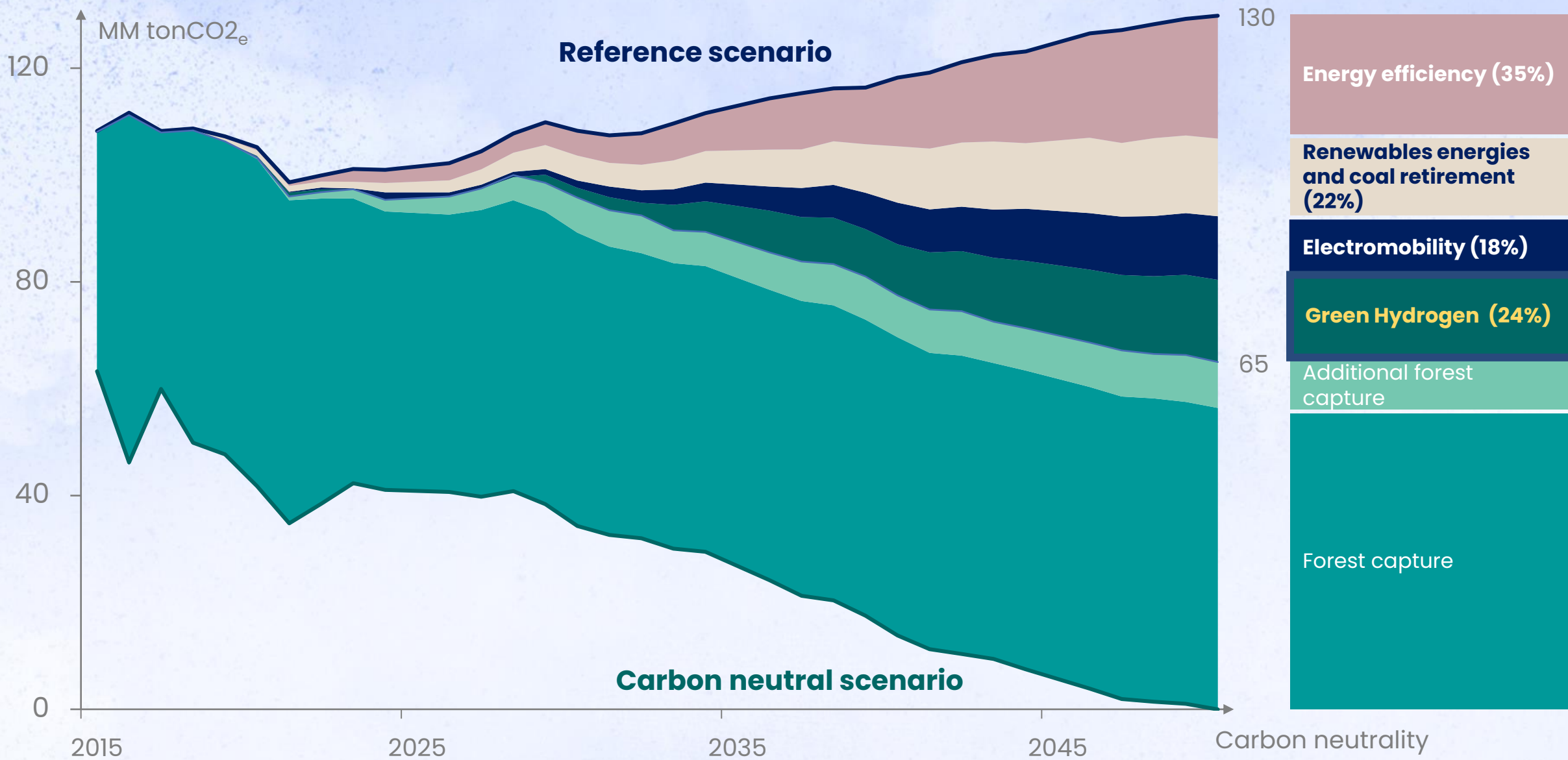


# Evolution and projections of electricity generation in Chile

Transition towards the use of renewable and clean energies, in a context of global climate crisis



# Chile's Carbon Neutrality





# Green Hydrogen Strategy

## Goals 2025



Top 1  
Investment  
H2V in LATAM



Electrolysis capacity  
under construction  
and operation



Production in at  
least two  
Hydrogen valleys

## During 2021, Chile consolidated its position in H2V



**+15 B USD**  
Projected investment  
by 2030



**4/6**  
Priority applications in  
announced projects



**+4 Regions**  
Antofagasta, Magallanes, Valparaíso,  
Bio-bio

**November  
2020**



**Strategy  
launch**

**January  
2021**



**+10 projects in  
Chile**

**December  
2021**



**+60 projects in  
Chile**

Concurso M\$US 50  
Aceleradora AgenciaSE (\$300.000)  
Estudios AGCID (€300.000)



Mission-orientes  
policy



Efficient route to a  
zero-emission  
country



Driver of local  
development



International  
openness



Clean export  
economy



Balanced use of  
resources and  
territory

## Pillars

# H2V Projects

## Big numbers

**41 projects**  
**8 regions**

**Antofagasta: 15**

**Atacama: 1**

**Coquimbo: 1**

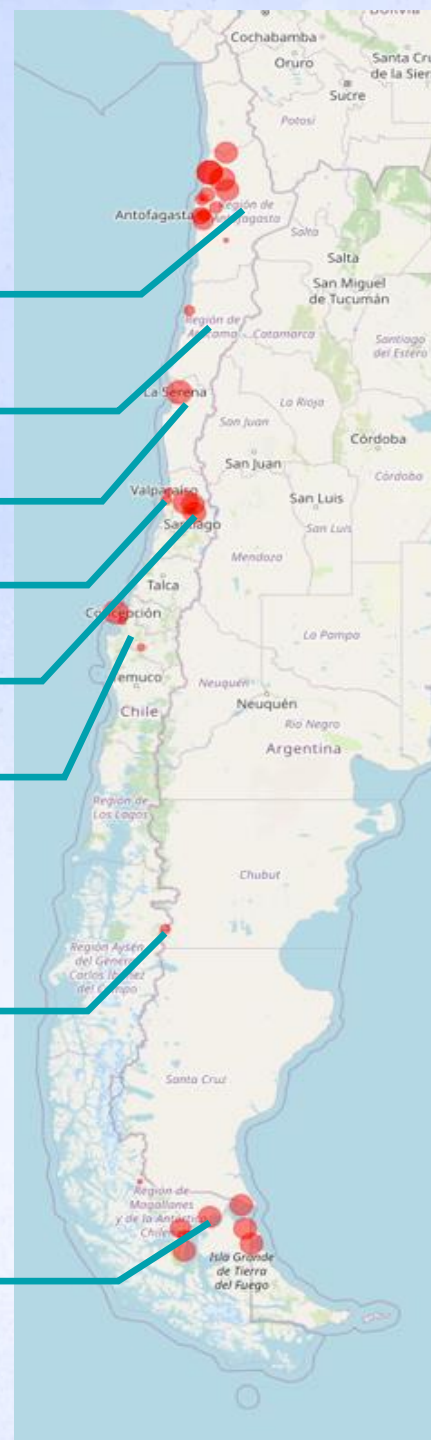
**Valparaíso: 3**

**Metropolitana: 3**

**Biobío: 3**

**Aysén: 1**

**Magallanes: 12**



Under construction: **4**

Feasibility state : **15**

Pre-feasibility state : **18**

Design state: **4**

Environmental approved: **2**

Production H2V: **2.7 Mton/year**

Generation capacity: **41 GW**

Electrolysis capacity: **28 GW**

Dock required: **15**

Desalination required: **12**

Investment: **56 mil MMUSD**

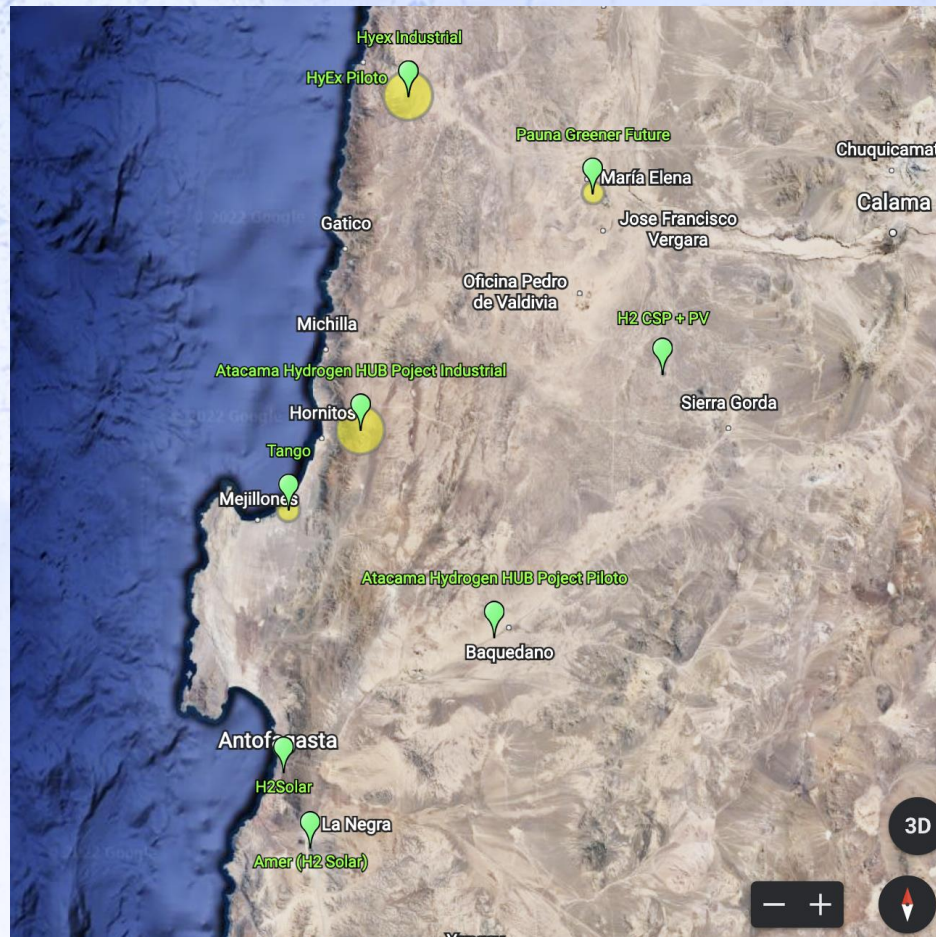
\*2 proyectos no señalan región

Fuente: Comisión 5 - Mapeo de proyecto, financiamiento e inversiones

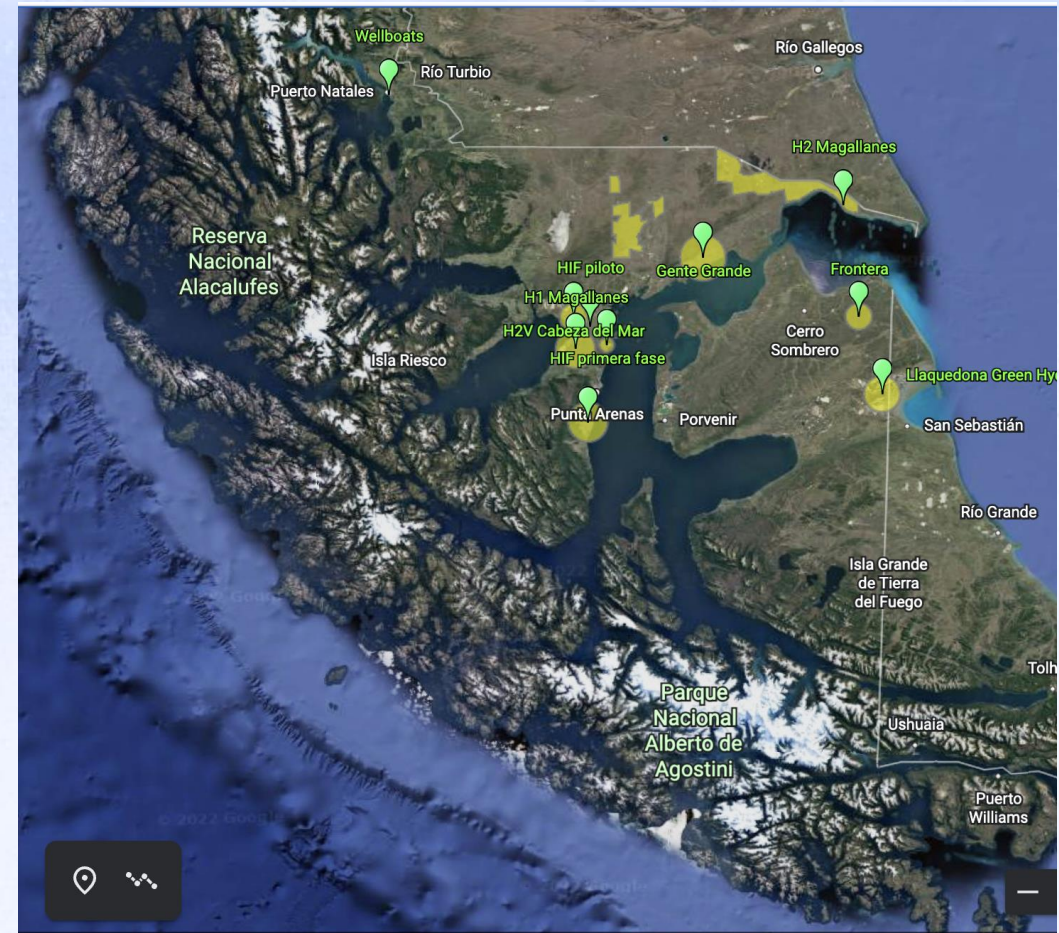


# Green H2 projects

Regions with the most projects to be installed



Antofagasta  
**15 GW**



Magallanes  
**25 GW**



# Green Hydrogen

Action Plan 2023–2030

## GH2 Strategy

Action Plan 2020–2023

**2024**

Validation and updating of assumptions  
*Every 2 years and 6 months*

**2026**

Strategy update  
*Every 5 years*

## GH2: Action Plan 2023–2030

*Roadmap towards a sustainable development of green hydrogen in Chile*

**INVESTMENT AND INSTITUTIONAL  
FRAMEWORK**

**SUSTAINABLE AND LOCAL VALUE**

**INFRASTRUCTURE AND TERRITORY**



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