



# Energy Transition and Green Hydrogen in Chile

Building strong public policies in the energy sector

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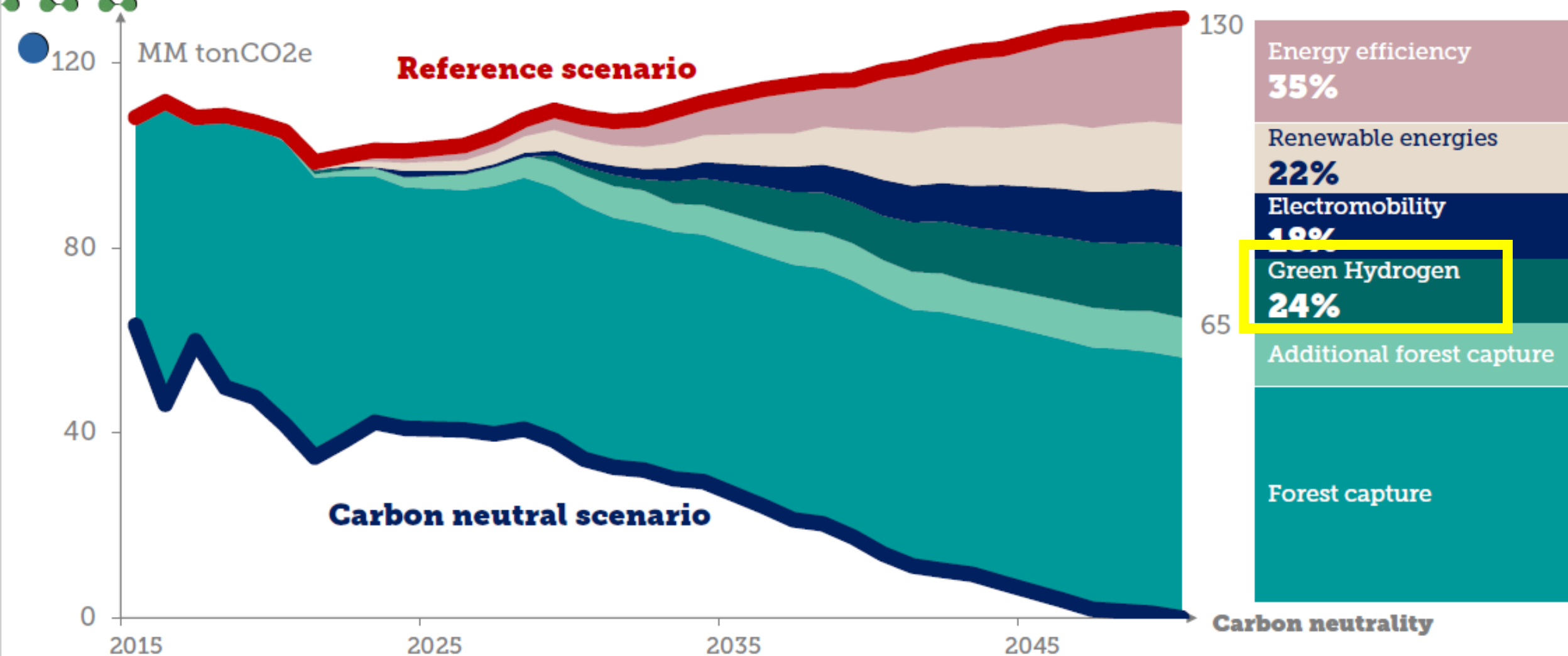


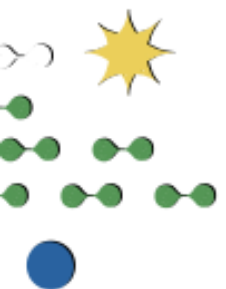
# Contents for today

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- **H2 is a Huge opportunity for Chile**
- **From Strategy to action plan for 2030**
- **Regulation Agenda with interministerial collaboration**
- **Future steps in the action plan**

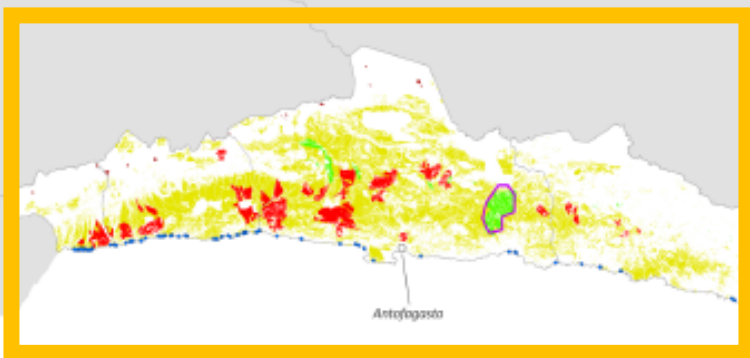
# Carbon Neutrality Plan





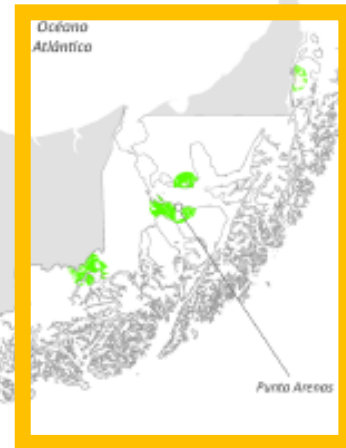
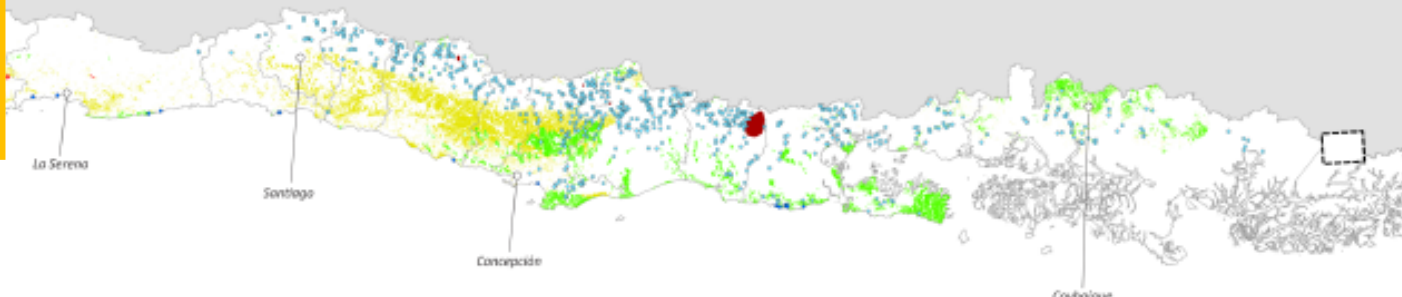
# Renewable energies

## One of the best potentials in the world



### Technical potential

**x80** times the current installed capacity in Chile



Potenciales de Energías Renovables PELP 2023-2027

#### Leyenda

- Eólico
- Geotérmico
- Solar CSP
- Solar Fotovoltaico
- Potenciales Centrales Hidroeléctricas
- Potenciales Centrales de Bombeo Costeras
- Área de Reserva de Taltal



A **sustainable development** requires **territorial harmony**

# Projects under development



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



# A country with clear policies and regulation for GH2



## National Energy Policy, 2022

### 3 main goals:

- Climate action protagonists
- Energy for a better quality of life
- New productive activity for Chile

*"Green hydrogen and its derivatives represent a historic opportunity to transform Chile into one of the main exporters of clean energy globally. This will enable the creation of jobs and encourage new investments that will contribute to local development and decentralization"*

**2030**

Chile is an energy exporter in the form of green hydrogen, electric power or other energy sources

**2050**

**70%** — Zero-emission fuels in non-electric energy end-uses

## National Green Hydrogen Strategy, 2020

**2025**

**5 BUSD**

Top destination for green hydrogen investment in Latin America

**5 GW**

Electrolysis capacity operating and under development

**200 kton/year**

Production in at least 2 hydrogen valleys in Chile

**2030**

**2,5 BUSD/year**

Leaders in export of green hydrogen and derivatives

**25 GW**

Leaders in production of green hydrogen via electrolysis

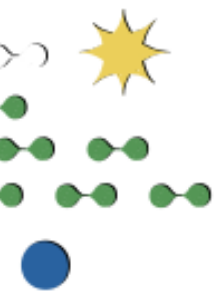
**<1,5 USD/kg**

The cheapest hydrogen on the planet

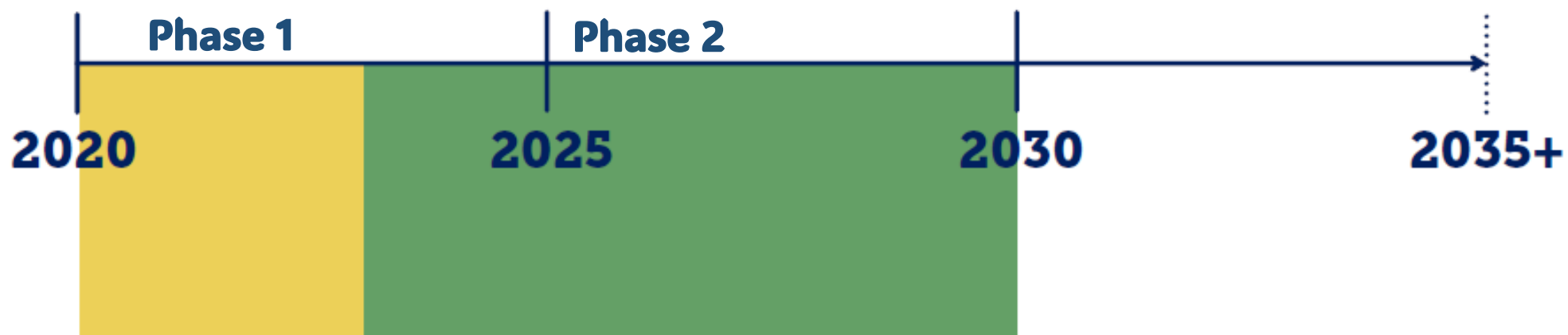
## Green Hydrogen Action Plan 2023-2030



- Interministerial roundtables
- Advisor Council
- Citizen Workshops
- Strategic Committee



# National GH2 Strategy and GH2 Action Plan



## Action Plan 2020-2023

Current National GH2 Strategy

## Action Plan 2023-2030

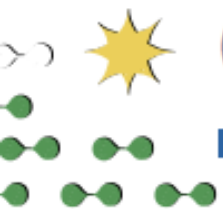


The frequent updating of the Strategy and its Action Plan will make it possible to adapt public policy to the evolution of markets, technologies and challenges.

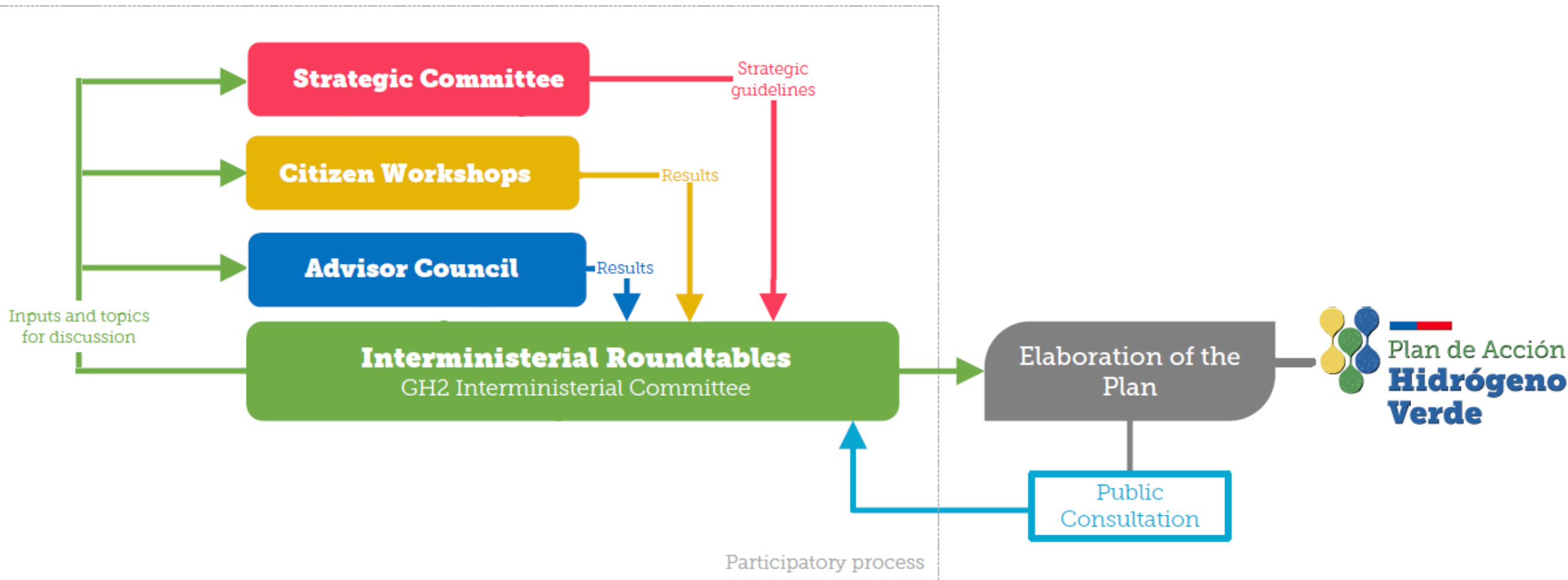
# GH2 Action Plan 2023-2030







# GH2 Action Plan 2023-2030



# Regulation to develop I

## 1. H2 Facilities

### Production and Storage



## 2. H2 Transport

### Land and Maritime

#### a) Land: Trucks – Trains

MTT 1 - Transp. de cargas peligrosas por vía pública

#### b) Land: Gas Pipelines

MEN 3 - Seguridad, transporte y dist. de gas (H2+GN) de red

MEN 4 - Norma de Calidad gas H2+GN

MEN 5 - Seguridad, transporte y dist. de gas (H2) de red

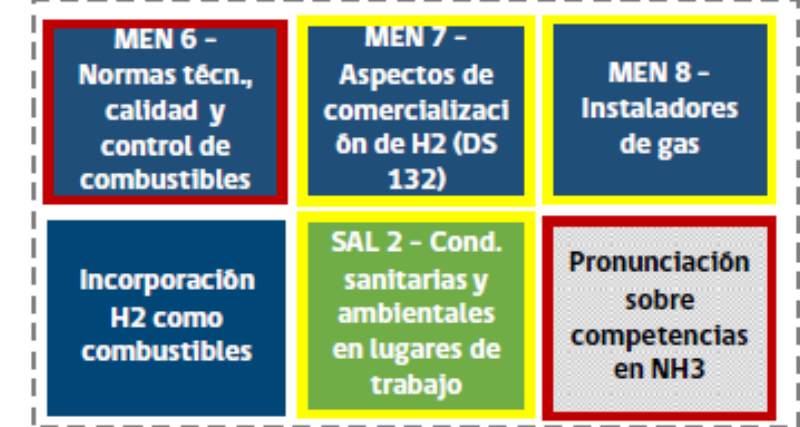
#### c) Maritime

MTT 2 - Req. para manipulación y almto. en puertos

MTT 3 - Req. Seguridad manipulación explosivos en puertos

## 3. H2 Transversals

### Various



■ Min. Energy ■ Min. Transport ■ Min. Housing ■ Min. Health ■ Min. Mining

□ Modification to existing regulation ■ Development of new regulation

# Regulation to develop II

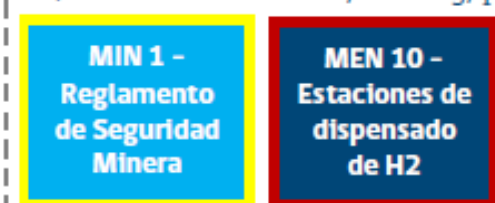
## 4. H2 Application Uses

### 4.1 Transport

#### a) Public Road

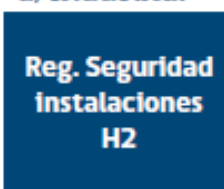


#### b) Off Road: Industrial, mining, ports, airports

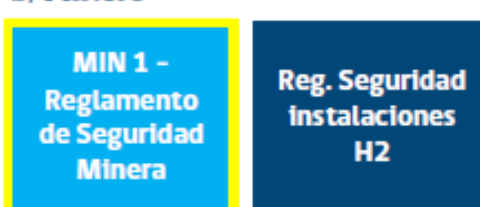


### 4.2 Thermal Power Generation

#### a) Industrial



#### b) Minero



#### c) Residential-Commercial

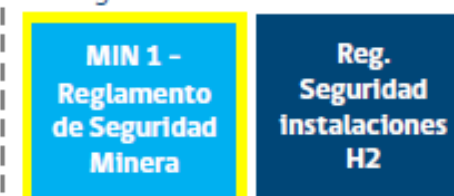


### 4.3 Electric Power Generation

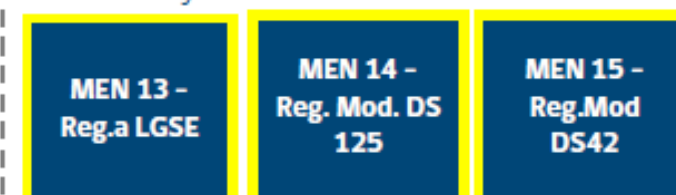
#### Industrial

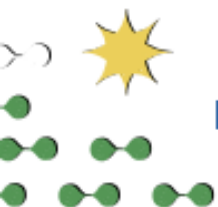


#### Minig



#### Electrical System





# Next steps

## **October 2023**

- First version of GH2 Action Plan 2023-2030 (for internal reviewing)
- Chile LAC 2023 5th Green Hydrogen Summit

## **November 2023**

- Preliminary Version of GH2 Action Plan 2023-2030 (for Public Consultancy)

## **December 2023**

- Public Consultancy Period of Preliminary version of GH2 Action Plan 2023-2030
- Closing Audiences of GH2 Action Plan 2023-2030

## **1<sup>st</sup> Quarter 2024**

- Final Version of GH2 and start of continuous follow-up process of GH2 Action Plan 2023-2030



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