



**CHILE LO
HACEMOS
TODOS**

Methane mitigation in Chile's waste sector

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CCAC Science Policy Dialogue – 22 June 2020



AGENDA

- 1. Climate commitments**
- 2. Waste sector's vision**
- 3. Organic waste management**

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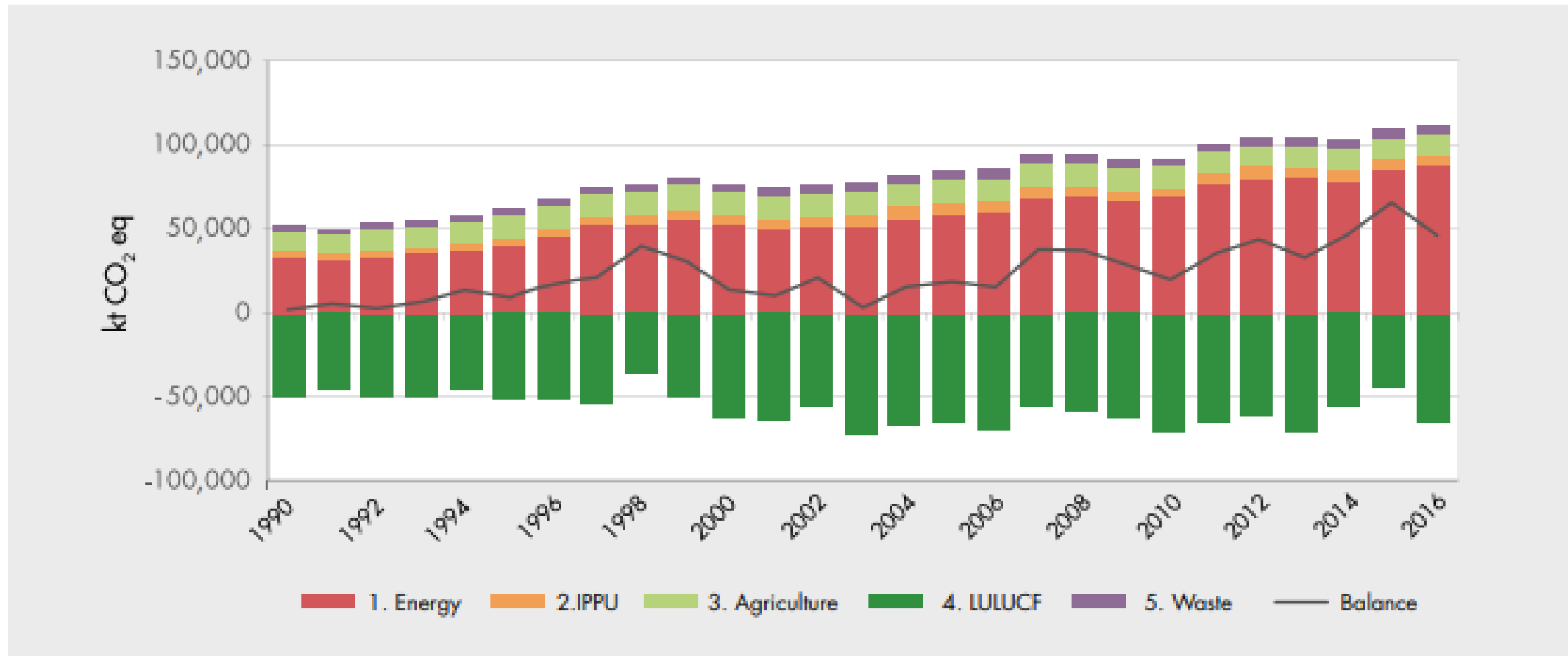
Net zero, Chile 2050

Climate Change Framework Law:

- Net Zero Goal by 2050
- Government institutionalization (update), Scientific Committee (new), advisory board (update).
- Signed by 15 Ministries (energy, mining, agriculture, science, environment, housing, infrastructure, transport, health, education, finance, defense, foreign affairs and interior).

Net zero, Chile 2050

Figure RE1. Chile's NGHGI: balance of GHG (kt CO₂ eq) by sector, 1990 - 2016 series



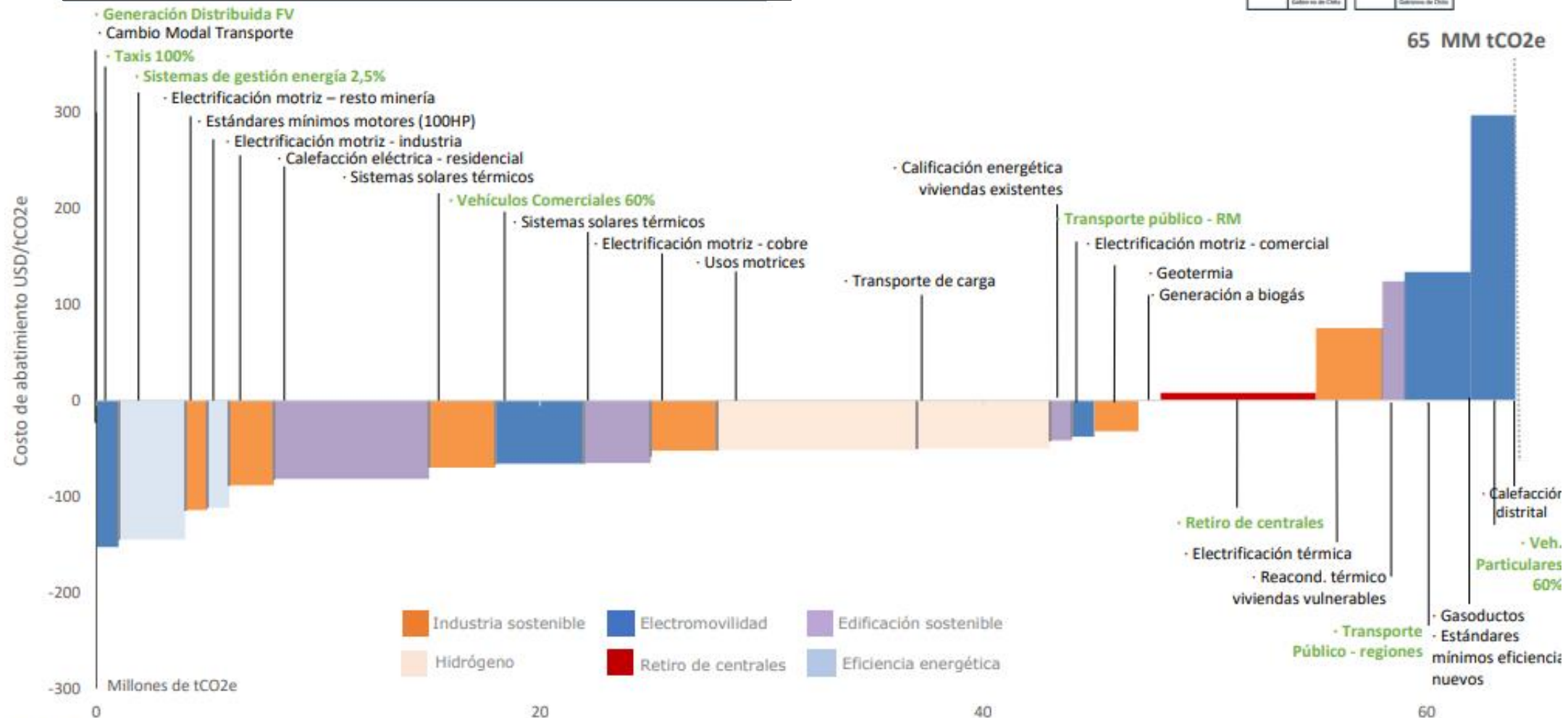
NGHGI: National green house gas inventory.

Total GHG emissions (2016): 78.7% CO₂, 12.5% CH₄, 6.0% N₂O and 2.8% Fluorinated gases.

https://unfccc.int/sites/default/files/resource/5769410_Chile-BUR3-1-Chile_3BUR_English.pdf

Net zero, Chile 2050

Marginal Abatement Cost Curve



Updated NDC, Chile



CHILE'S NATIONALLY DETERMINED CONTRIBUTION

UPDATE 2020

NDC Structure



- **Means of Implementation:** capacity building, technology transfer and financing.
- **Transparency of the mitigation commitment:** Katowice's new rules for 2025.

Integration component: Circular economy

Contribution to Integration - Circular Economy N°1 (I1)

CONTRIBUTION

I1) In 2020, develop a Circular Economy Roadmap for the years 2020 to 2040, agreed at a national level, which will focus on the transition towards a circular economy with short, medium and long-term measures established to 2040.

Contribution to Integration - Circular Economy N°2 (I2)

CONTRIBUTION

I2) In 2020, develop a National Organic Waste Strategy, aimed at increasing the recovery of organic waste generated at municipal level by recovering nutrients, organic materials or substrates into the productive process and, thereby, contributing to climate change adaptation and mitigation.

Contribution to Integration - Circular Economy N°3 (I3)

CONTRIBUTION

I3) By 2022, establish and implement, metrics and indicators on circularity to monitor the country's progress in circular economy and identify its contribution to climate change mitigation and adaptation.

Mitigation Commitments and SLCP's

Short lived climate pollutants (focused on black carbon)

Contribution to Mitigation N°2 (M2)

CONTRIBUTION

M2) Reduce total black carbon emissions by at least 25% by 2030, with respect to 2016 levels. This commitment will be implemented primarily through national policies focused on air quality. In addition, it will be monitored through permanent and periodic work to improve information available in the black carbon inventory.

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WASTE
OFFICE

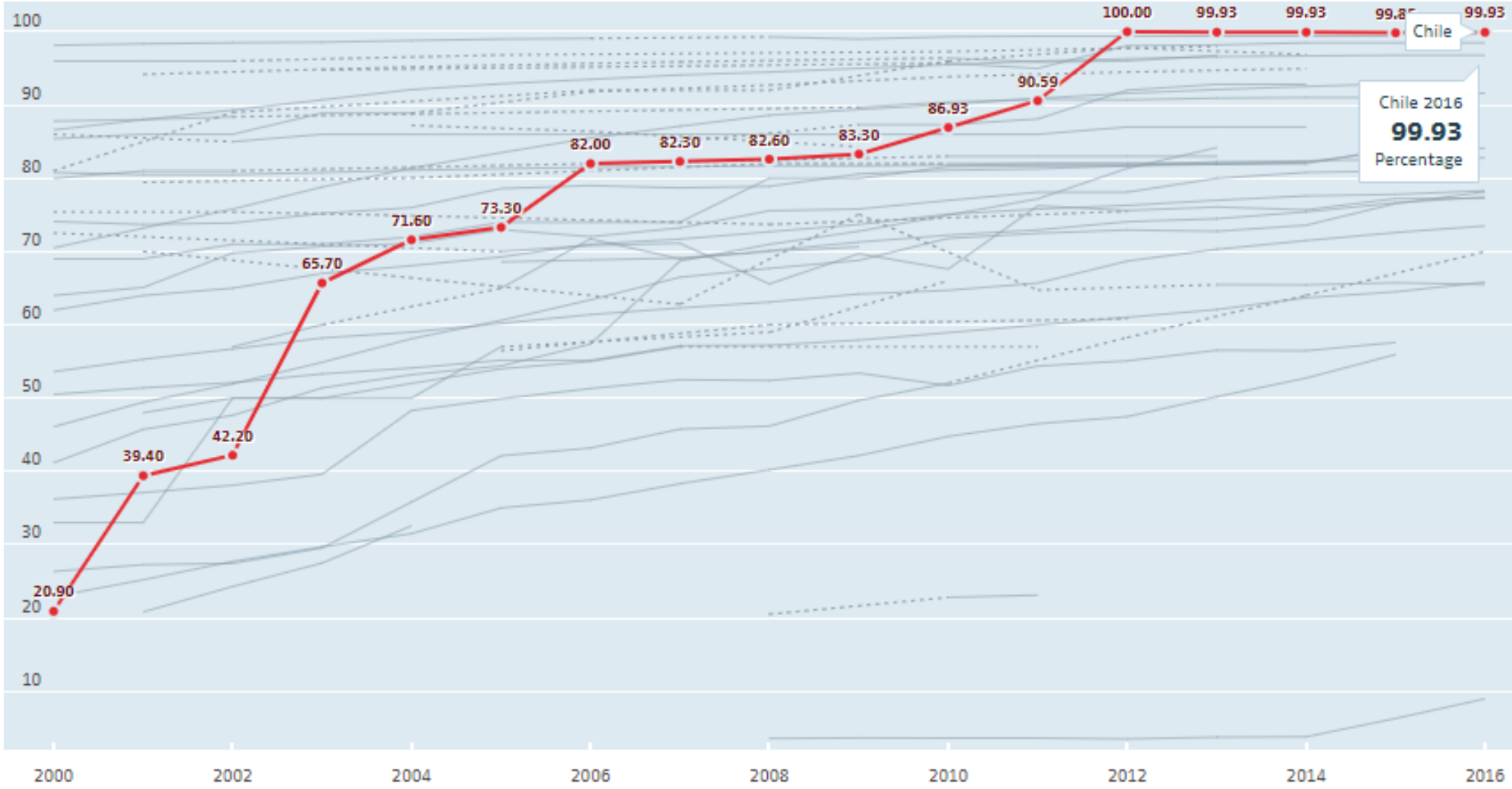


CIRCULAR ECONOMY

~~WASTE~~

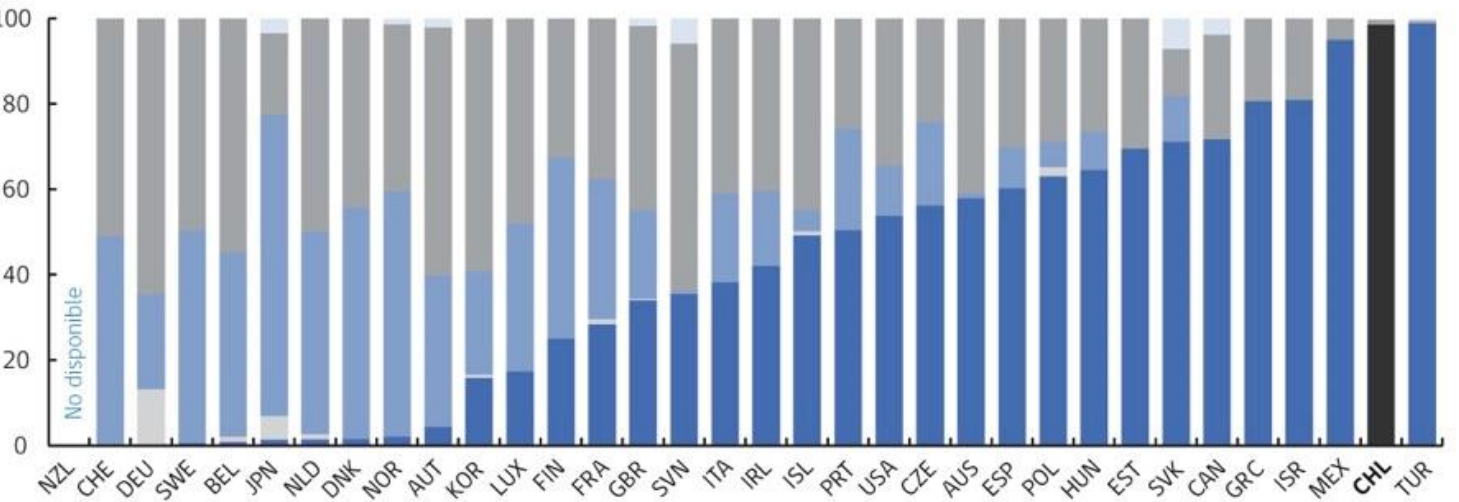
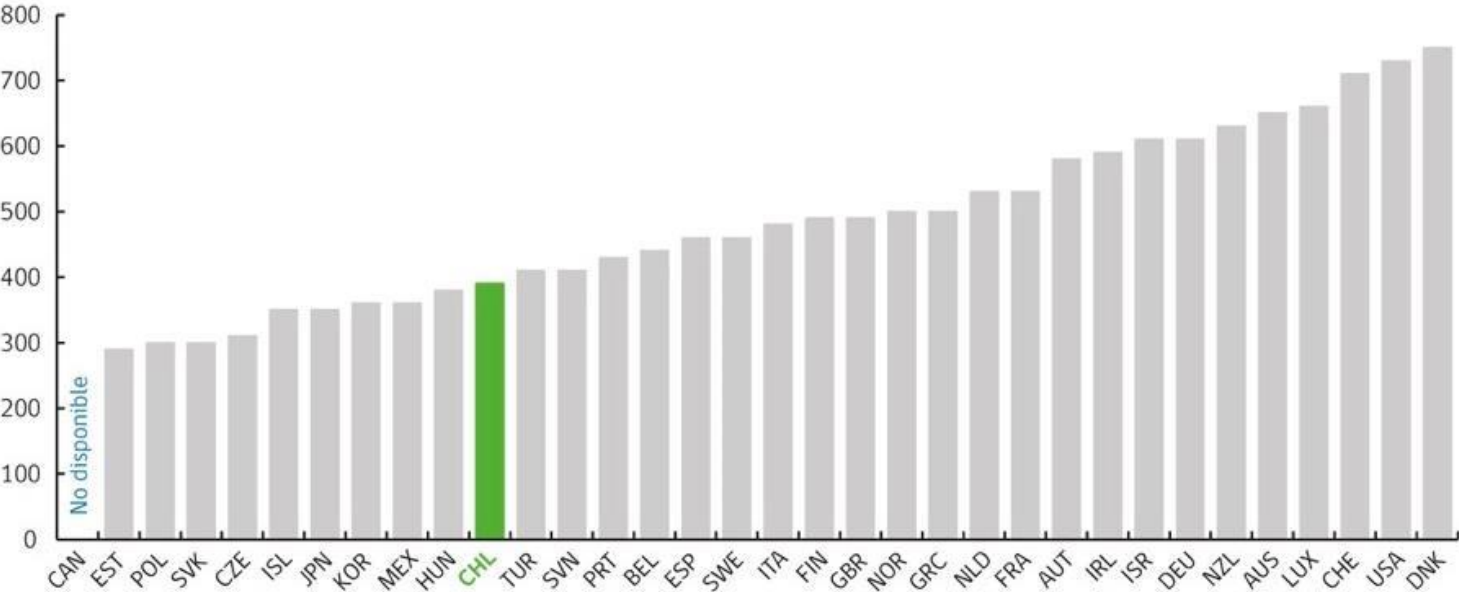
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Wastewater treatment in OECD countries



OECD COUNTRIES

Annual municipal solid waste generation (kg per person)



- Rellenos sanitarios
- Incineración y recuperación de la energía
- Otros tratamientos
- Incineración sin recuperación de la energía
- Reutilización de materiales (reciclado/compostaje)

Municipal waste treatment

A GREAT OPPORTUNITY

ENVIRONMENTAL



ECONOMIC

SOCIAL



Finland 2016



London 2017



France 2018





Roadmap for a **CIRCULAR CHILE**

Ministerio del Medio Ambiente



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ORGANIC WASTE



4 MILLION
TONS/YEAR

LESS THAN 1%
VALORIZATION

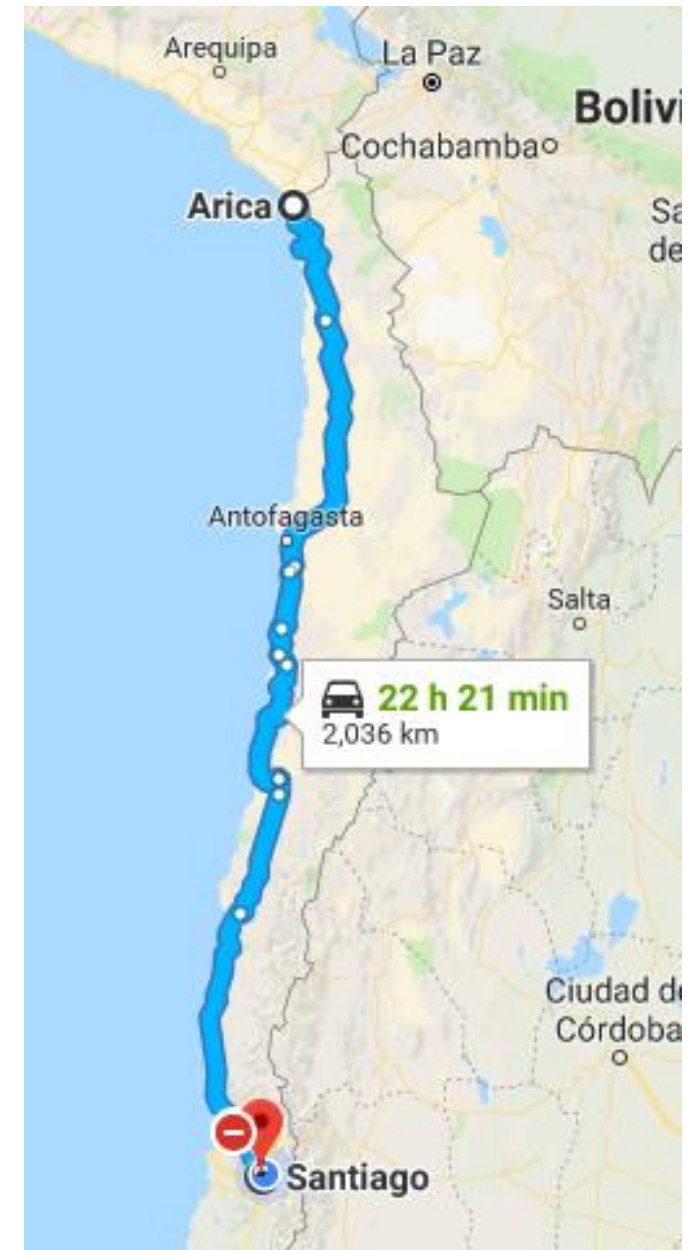
ODORS

LEACHATE

GHG



ORGANIC WASTE



EPR AS AN OPPORTUNITY



National Organic Waste Strategy

2040

- ✓ 66% of organic waste recovered



2030

- ✓ 30% organic waste recovered
- ✓ 500,000 home composters
- ✓ 5,000 educational establishments with composters
- ✓ 500 vulnerable neighborhoods with community doing composting
- ✓ All urban parks composting their green waste



“Reciclo Orgánicos” Program



Accord de coopération environnementale
Acuerdo de Cooperación Ambiental
Agreement on Environmental Cooperation

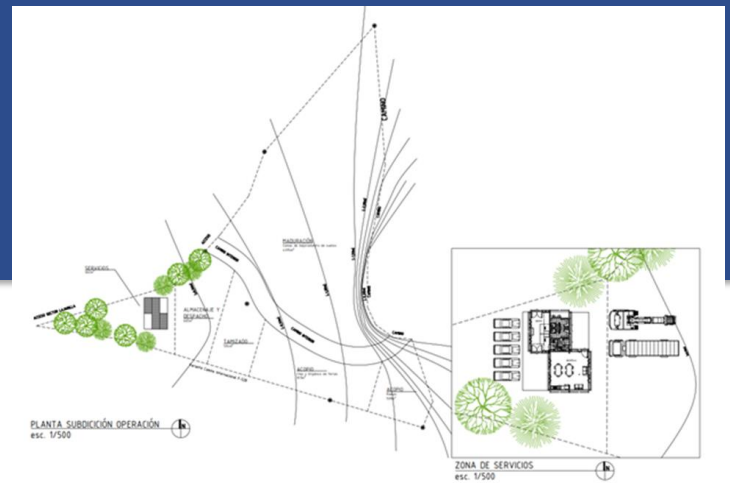


Environment and
Climate Change Canada



- Supports the implementation of technologies to reduce SLCP emissions: Composting, anaerobic digestion and landfill gas recovery
- Development of an MRV framework for the sector
- Capacity building and awareness creation

3,5 million tCO₂e will be reduced from the project portfolio so far





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