



Chile

Applicant: Ministry of Environment

National Designated Entity:
Mr. James Robinson, National Council for Clean Production

Duration: 15 months

Status: Under implementation

Budget: 200,000 USD

Technical Assistance Planned by:
UNIDO

Implemented by: UNIDO

Replacement of F-refrigerants in food processing with climate friendly cooling alternatives

CONNECTING COUNTRIES TO CLIMATE TECHNOLOGY SOLUTIONS

The Climate Technology Centre and Network promotes the transfer of climate technologies at the request of developing countries for energy efficient, low-carbon and climate resilient development.

By connecting stakeholders with technology experts from around the world, the CTCN delivers customized capacity building and technical assistance aligned with national climate objectives.

CHALLENGE

In Chile's food processing industry, most refrigerants contain hydrochlorofluorocarbons (HCFCs) and hydro fluorocarbons (HFCs) which are harmful greenhouse gasses if released to the atmosphere. Alternatives are available, however, there is a lack of information and experience about climate friendly technologies for cooling.

CTCN ASSISTANCE

- Develop an awareness raising campaign to highlight climate friendly refrigerant technologies
- Provide capacity building, training and advisory services to relevant government agencies
- Implement a pilot conversion programme, including a training programme for local technicians and establishment of a knowledge platform on climate friendly technologies

INTENDED IMPACT

From the pilot conversion programme, an estimated reduction of between 117,000 and 281,000 t CO₂-eq per year by 2030 is expected with the potential for replication of climate friendly technologies and further up-scaling of abatement efforts.

THIS PROJECT ADVANCES:

Chile's Nationally Determined Contribution to:

- Support replacement of fluorinated refrigerants to advance Chile's national mitigation targets
- Contribute to national needs for capacity building and technology transfer

SUSTAINABLE DEVELOPMENT GOALS



What is climate technology?

Any equipment, technique, practical knowledge or skills needed to reduce greenhouse gas emissions and/or adapt to climate change. This includes modern and traditional technologies.

Learn more about CTCN technology transfer

Visit: www.ctc-n.org
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The CTCN is the operational arm of the UNFCCC's Technology Mechanism and is hosted by the United Nations Environment Programme (UNEP) and the United Nations Industrial Development Organization (UNIDO).

THE STORY

Since the 1980s, agribusiness has developed dramatically in Chile, and the sector has become a key factor in the country's economic development. Over 200 types of fruits and vegetables are now processed in Chile for food production and export, each requiring refrigeration throughout various aspects of processing.

At the same time, Chile has prioritised the elimination of fluorinated refrigerants, aiming for a 25% decrease by 2020. While the most common refrigerant alternative in the country has zero ozone depleting potential, it has a high global warming potential.

The CTCN harnessed UNIDO's expertise in cold storage applications for food and agro industry value chains to provide technical assistance that will ultimately reduce ozone depleting substances while improving energy efficiency and competitiveness in a strategic sector of the country's economy.

By demonstrating the feasibility, profitability and environmental benefits of alternative technologies, complemented by policy/regulatory support and capacity building, this initiative will contribute to the substitution of high global warming potential refrigerants with alternative refrigerants, and assist Chile in meeting its greenhouse gas reduction objectives.

The CTCN gratefully acknowledges the support of :



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