Plan Overview

A Data Management Plan created using DMPonline

Title: Chile - Net Zero Energy Transition Plan

Creator: Ayomikun Ayodeji

Principal Investigator: Fanny Garrigou-grandchamp, Ayomikun Ayodeji, Moritz Piepel, Megan Batchelor, Aymeric Fabre, Kolter Stevenson

Data Manager: Aymeric Fabre

Project Administrator: Ayomikun Ayodeji

Affiliation: University of Oxford

Template: DCC Template

Project abstract:
The project aims to develop a consultancy-based plan for a net-zero energy transition in Chile by 2050. The plan includes the pathways to net-zero, renewable energy potential, energy system design, economic considerations, and policy recommendations to achieve net-zero climate targets by 2050.

ID: 170112

Start date: 01-10-2024

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Last modified: 06-02-2025

Chile - Net Zero Energy Transition Plan

Data Collection

What data will you collect or create?

Collect and Analyse the energy demand of the country in different sectors using several technologies

- Collect energy demand from the IEA, Our World in Data.
- Project the energy demand of the country up to 2050.
- What are the most polluted energy sources? How can they be phased out?
- Potentiality to apply specific feasible policies to reduce the energy demand.

Collect and Analyse the energy supply of the country in different sectors using several technologies

- Collect generation capacity from the IEA, Our World in Data.
- What are the capacity factors for renewable generation technologies in different departments within Chile?
- How much total generation capacity per state leads to the lowest transmission losses?
- What are the capacity targets per generation technology?

Analyse the macroeconomic factors related to country balance sheet and financing options

- Obtain Chilean credit history since 2000.
- Combine with overview of government budget, fiscal, and monetary situation.
- Explore key drivers of national balance sheet situation.
- Determine most viable financing scenarios given macroeconomic situation.

How will the data be collected or created?

The data will collected through credible sources, such as Chilean governmental sources, International Energy Agency (IEA), The Chilean Ministry of Energy and academic papers. Also, credible international sources would be used to collect the data such as the World Bank and the United Nations.

Documentation and Metadata

What documentation and metadata will accompany the data?

- Report
- Presentation

Ethics and Legal Compliance

How will you manage any ethical issues?

- Aligned with the Ethics Team, Department of Engineering Science, University of Oxford.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

- All of the data will be used for education purposes to develop the report and the presentation.

Storage and Backup

How will the data be stored and backed up during the research?

- OneDrive, SharePoint and Microsoft Teams
- All code will uploaded to GitHub and links will be shared via the report

How will you manage access and security?

- Access is managed by the MSc Energy Systems course director.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

Chile Net -Zero Transition:
- Report
- Presentation

What is the long-term preservation plan for the dataset?

- The course director will have all the completed data and the data sources for a minimum of three years

Data Sharing

How will you share the data?

- The data will be shared with the course director via report and presentation submission
- All data will be available as well in the Chile channel in Microsoft Teams MSc Energy Systems channel under the folder called: "Project - NetZero Energy Transition"

Are any restrictions on data sharing required?

- Data collection and processing are aligned with the University's regulations

Responsibilities and Resources

Who will be responsible for data management?

- Aymeric Fabre - Data manager
- Long-term data management is managed by the MSc Energy Systems Course Director (Prof. David Wallom)

What resources will you require to deliver your plan?

OneDrive, SharePoint and Microsoft Teams

Planned Research Outputs

Audiovisual - "Chile Energy Transition Presentation"

The Chile Energy Transition Presentation summarizes information from the Chile Energy Transition Report.

Report - "Chlie Energy Transition Report"

The energy transition report aims to outline a plan for Chile's transition to a net-zero energy system, including expanded chapters on the pathways, renewable energy potential, system design, economic considerations, and policy recommendations. The report includes figures, tables, and data gathered from open-source and non-personal sources, which exclude the report from containing personally identifiable information and sensitive data.

Planned research output details

Title	DOI	Type	Release date	Access level	Repository(ies)	File size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Chile Energy Transition Presentation		Audiovisual	Unspecified	Open	None specified		None specified	None specified	No	No
Chlie Energy Transition Report		Report	Unspecified	Open	None specified		None specified	None specified	Yes	Yes