

THE GLOBAL STOCKTAKE

CLIMATE DATATHON

PROMPT OWNER

OpenEarth Foundation

PROMPT TOPIC

Climate accounting harmonization

PROMPT DATASET

<https://github.com/Open-Earth-Foundation/OpenClimate-Schema>

PROMPT BACKGROUND

An accurate Global Stocktake requires comparing emissions data at different levels of a geographic and social hierarchy: public and private institutions with nested responsibilities (see our papers on [nested accounting](#) for more information). The goal of the OpenClimate schema project is to make these different levels of climate accounting nestable and comparable.

[OpenClimate](#) is an open source and digitally integrated climate accounting system designed to help the world achieve the emission reduction targets set in the Paris Agreement. Its purpose is to remove frictions in climate accounting, by working towards interoperability between different standards, reducing double counting and catalyzing coordination towards climate goals. For this, OpenClimate is collecting data on emissions from public and private entities around the globe.

MAIN PROMPT QUESTION/CHALLENGE

In this prompt, the challenge is to discover GHG emissions datasets and convert them to the OpenClimate data format. The OpenClimate schema supports emissions accounting for public entities like nation-states, sub-national divisions like states and provinces, and cities. It can also support reporting data for private sector organizations, down to physical sites like factories, farms, and office buildings.

FURTHER GUIDANCE

Creative data sourcing is key. The best submissions will cover geographic areas or industry segments that aren't otherwise easily accessible. The number of actors, granularity of data, breadth of historical coverage, and precision of emissions data are all aspects of a good submission.

Submissions should include information about data provenance. Data should have permissions to be included in the OpenClimate system; no proprietary data, please. Submissions should be in the form of a single directory including CSV data files. Each file should be named

A single import of data is helpful, but periodic checks of data sources to keep OpenClimate in synch is better. Code in any programming language that can check for and publish new emissions data in the OpenClimate format is a great stretch goal.