

# Introductory Material relevant for the Energy-Climate Hackathon

*Version 1. see parallel google doc for the option to add more information*

Below is a short list of introductory material that may be useful if you are unfamiliar with some of the concepts used in the climate science and/or energy systems community.

## Climate Science

What is the difference between weather and climate? [\[link\]](#)

What is a reanalysis dataset? [\[link\]](#)

Why do we use long time series of data in energy-meteorology? [\[link\]](#)

An introduction to climate projections: Covers what a climate model is, how it differs from a weather forecasting model. Some examples of future projections data and the uncertainties associated with them. [Link here](#) (longer video as lots covered)

## Energy systems

What is an energy system? [\[link\]](#)

Overview of electric power systems [\[link\]](#)

Energy system models explained [\[link\]](#)

European energy grids: Future plans for electrification and flexibility [\[link\]](#)