

Model Inputs

Scenarios

Connectivity

Renewables
Targets

Demand changes

Cooperation

Capacity factors

Taken from renewables.ninja (Staffell and Pfenninger, 2016)

Wind

Solar

Model parameters

Demand

Costs

Supply factors

Emission factors

Energy Model

A combined capacity planning model and simulation model formulated using linear programming. The software is written in Python and available freely on Github.

Objective: $\min_x f(x) = c^T x$

subject to: $Ax = b$

$l \leq x \leq u$

Results Database

(1) Analyse risks and trade-offs under various scenarios

(2) Analyse **model sensitivity** to capture distribution of results

