# Description of extra input files

## case\_id\_description\_fn

Contains the two columns case\_id and case\_description, which are a short ID and a longer description of each case. The ID is used as a foreign key in other files and the description is used in subfolder names.

## scenario\_definitions\_fn

Starts with mandatory columns case\_id, which should use case\_id from the file case\_id\_description.csv as a foreign key, and year, which should match the model\_year values from the settings file. All other columns are user-defined names that refer to the types of parameters in the settings file that will being changed across cases. The values in each column are also user-defined strings describing the scenario (e.g. "high", "mid", "low").

The column names and values in each column are used in the settings parameter settings\_management to define how the default settings values should be changed across each case.

## distributed\_gen\_profiles\_fn

Normalized hourly generation profiles for distributed generation in all regions listed in the settings file under distributed\_gen\_method and distributed\_gen\_values.

## demand\_response\_fn

Hourly (not normalized) profiles for demand response resources in each region/year/scenario. The top four rows are the name of the DR resource (matching key values in the settings parameter demand\_response\_resources), the model year, the scenario name (matching names from scenario\_definitions\_fn), and the region.

## emission\_policies\_fn

Describes the emission policies in each case. The first two columns are case\_id and year. Next, the region column can either contain the name of a model region or the string "all" (when identical policies are applied to all regions). The column copy\_case\_id indicates if policies from another case should be used (slightly more clear and hopefully fewer errors than just using copy/paste across multiple rows). Other column names should match the columns used in output policy files (e.g. RPS, CES, etc) and contain numeric values or the string None.

## capacity\_limit\_spur\_fn

Provides the maximum capacity and spur-line construction distance for new resources. Starts with the required columns region and technology. cluster can be omitted, but is required when more than one resource of the same name is used within a region.

The data columns in this file are spur\_miles and max\_capacity.

## demand\_segments\_fn