

The diagram illustrates the data flow for the power distribution grid optimization problem. It is organized into three main sections:

- Input datasets:** This section contains four icons representing different data sources:
 - A city skyline icon representing urban infrastructure.
 - A smart meter icon with a lightning bolt, representing DER (Distributed Energy Resource) data.
 - A car icon with a lightning bolt, representing electric vehicle (EV) data.
 - A bar chart with a question mark, representing scenarios.
- Row DER data and scenarios:** This section receives input from the 'Input datasets' and feeds into the 'Power distribution grids'.
- Power distribution grids:** This section is represented by an icon of a power line with multiple branches, indicating the distribution network.

The flow is indicated by arrows: from 'Input datasets' to 'Row DER data and scenarios', and from 'Row DER data and scenarios' to 'Power distribution grids'.

Output dataset

- Photovoltaic generation
- Battery energy storage systems
- Heat pumps
- Electric vehicles
- Non controllable load

