

Creating Foundation Electric Energy Infrastructure Data from Open-Sources

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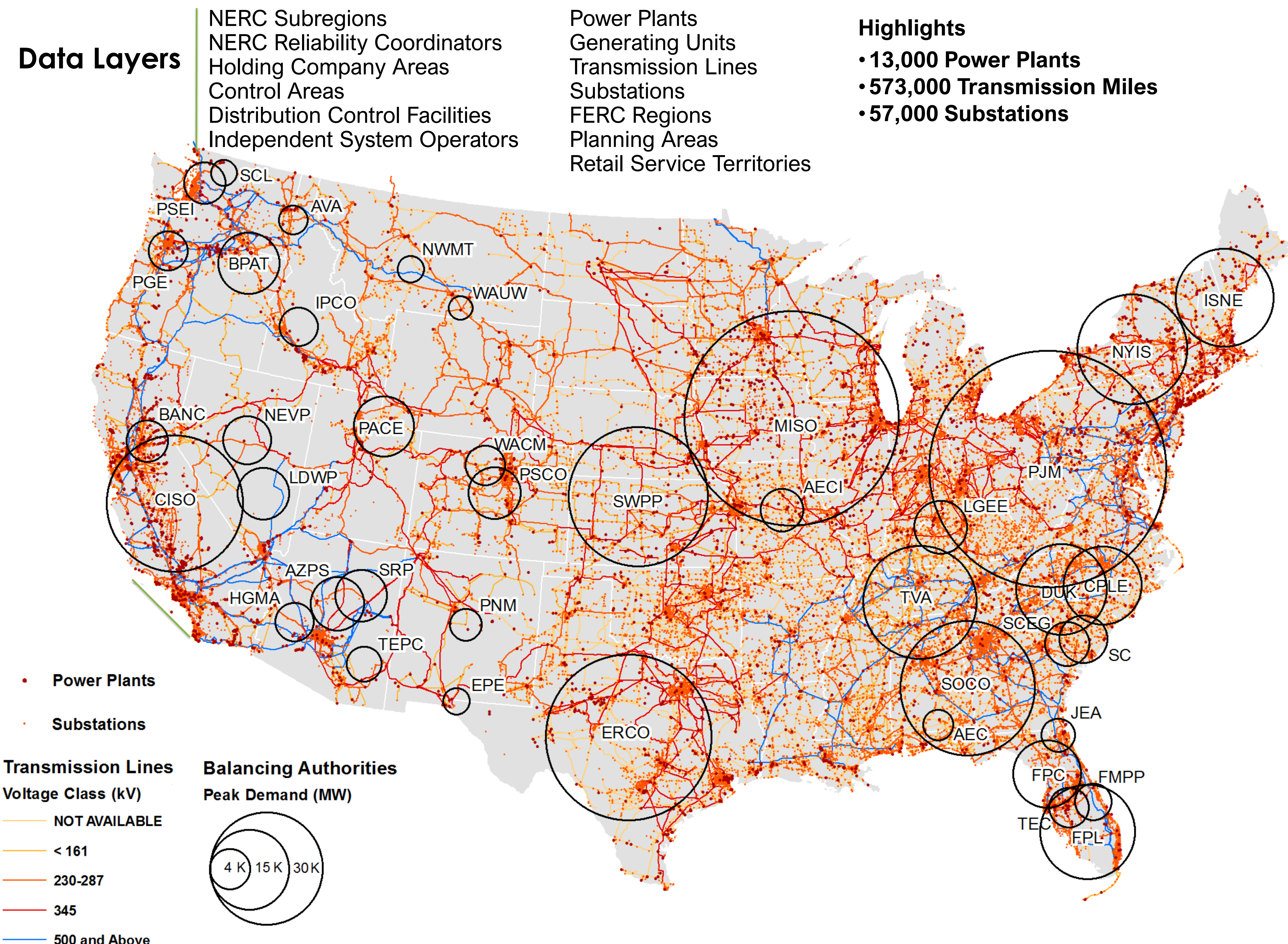
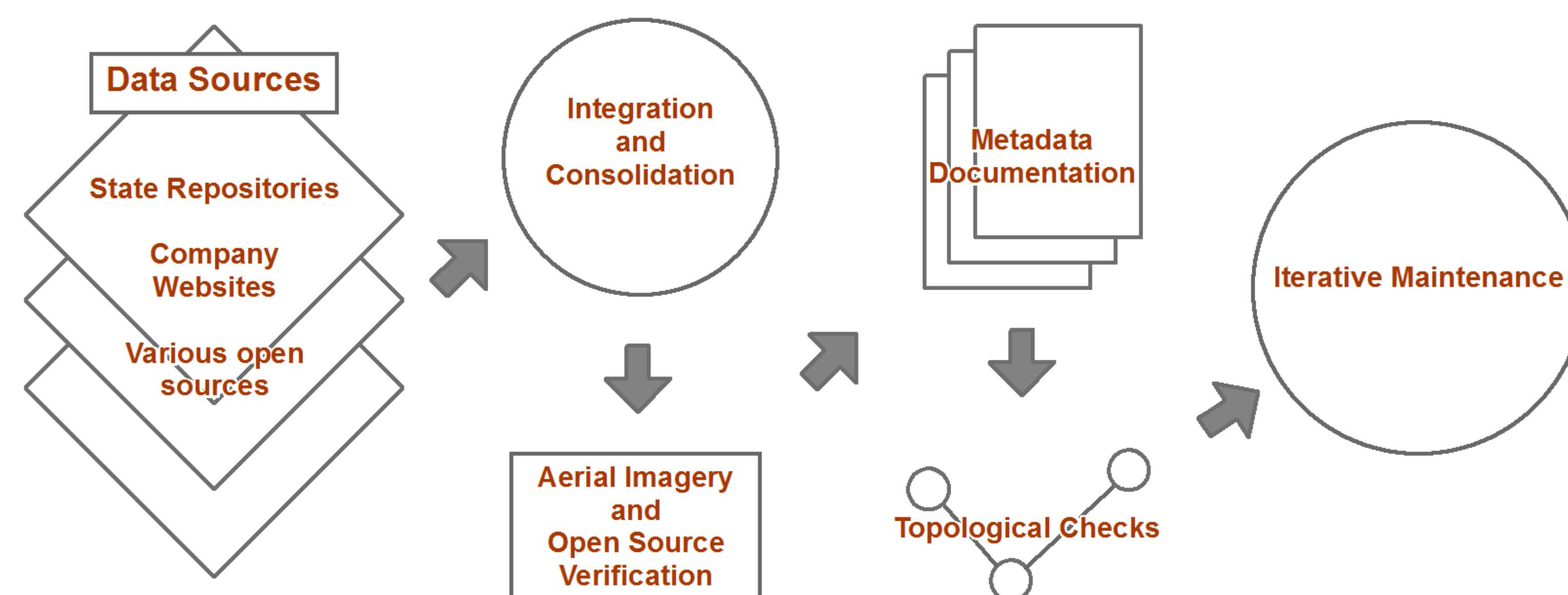
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Background

- The Electric Foundation Energy Data are the first ever government-owned geospatial data of electric power
- The dataset is an excellent example of collaboration between national laboratories
- The data are developed using open-sources enabling it to be distributed without any restrictions through the Homeland Infrastructure Foundation-Level Data (HIFLD) platform
- Updated annually using latest data sources
- Creation of these datasets have resulted in an estimated savings of 65% (~2 million dollars) over proprietary datasets

Methodology



Importance, Scope, Scale, and Quality

- Nationwide coverage including US territories
- Each power plant, substation, and transmission line is geolocated with high spatial precision using the best available imagery
- Used for supporting community preparedness and emergency response during disasters
- Used widely for modelling and simulation of power flow and as input in DOE projects like NAERM and Eagle- ITM
- Consistently the most downloaded dataset on HIFLD Open data platform amongst more than 400 datasets