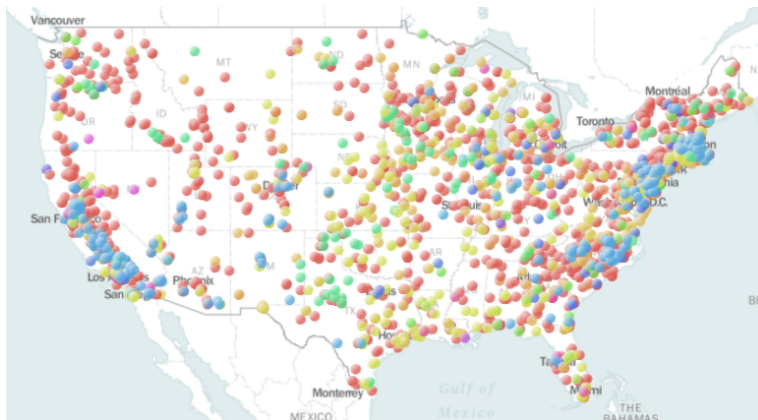# US Power Plant Analysis Pipeline:
Where in the US do I install a plant?

Data Pipeline

EIA-923 Generation and Costs	EIA 860 Plant Information	County Census Data	Predictive Features	Prediction of Interest

Data Cleaning/Preparation

U.S. Department of Energy, The Energy Information Administration (EIA)
EIA-923 Monthly Generation and Fuel Consumption Time Series File, 2012 Fir
Sources: EIA-923 and EIA-860 Reports

Plant Id	Combined Heat And Power Plant	Nuclear Unit Id	Plant Name
2	N		Bankhead Dam

Feature Engineering
- Gen/Fuel = Efficiency
- f(Lat,Long,Gen) = power density
- f(Lat,Long,Pop) = Pop density

Data validation

Net Generation (Megawatthours)
-147,503
-206,679
-773,280

Feature Matching

Tot_MMBtu January	TOT_MMBTU _JAN

'PLNTCODE,N,5,0','PLNTCODE',
'PLANT_CODE','Plant Code'

Geography

Population Density

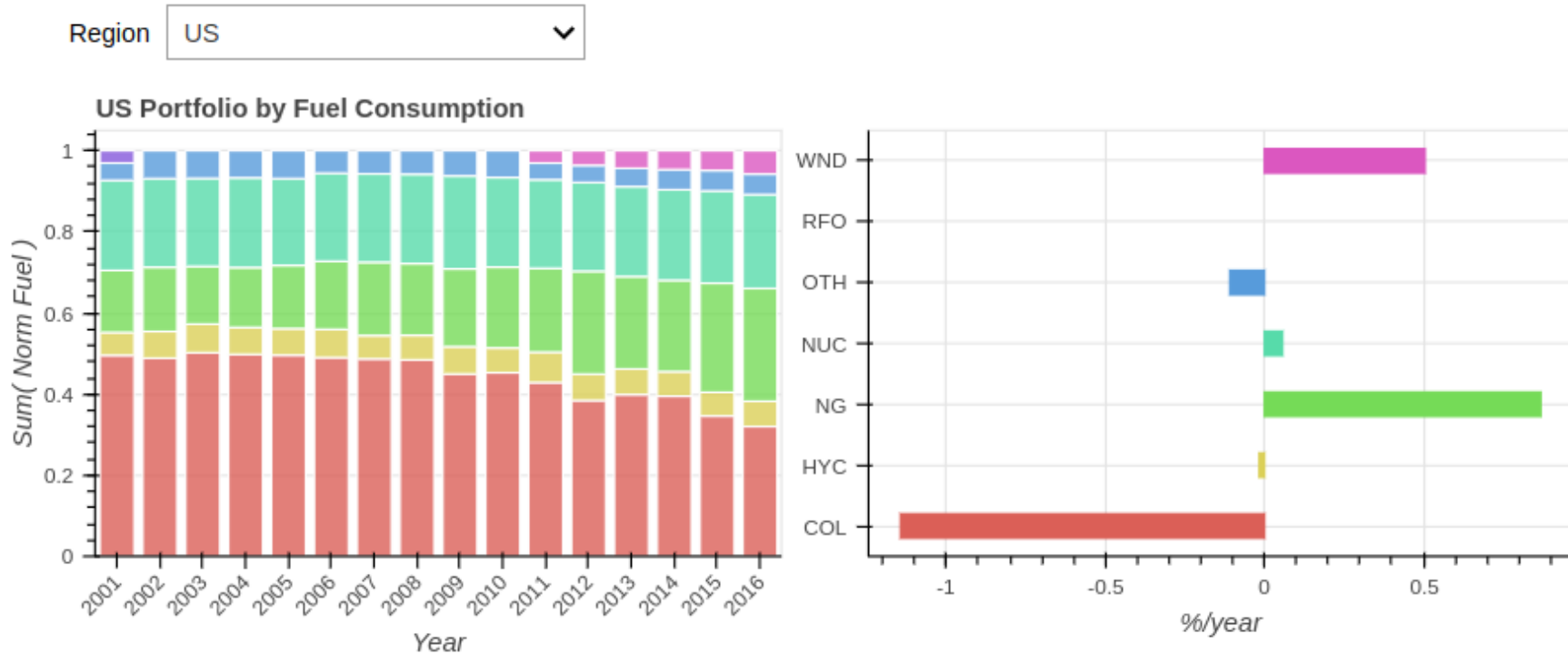## Fuel Used, Sector, Tech Trends

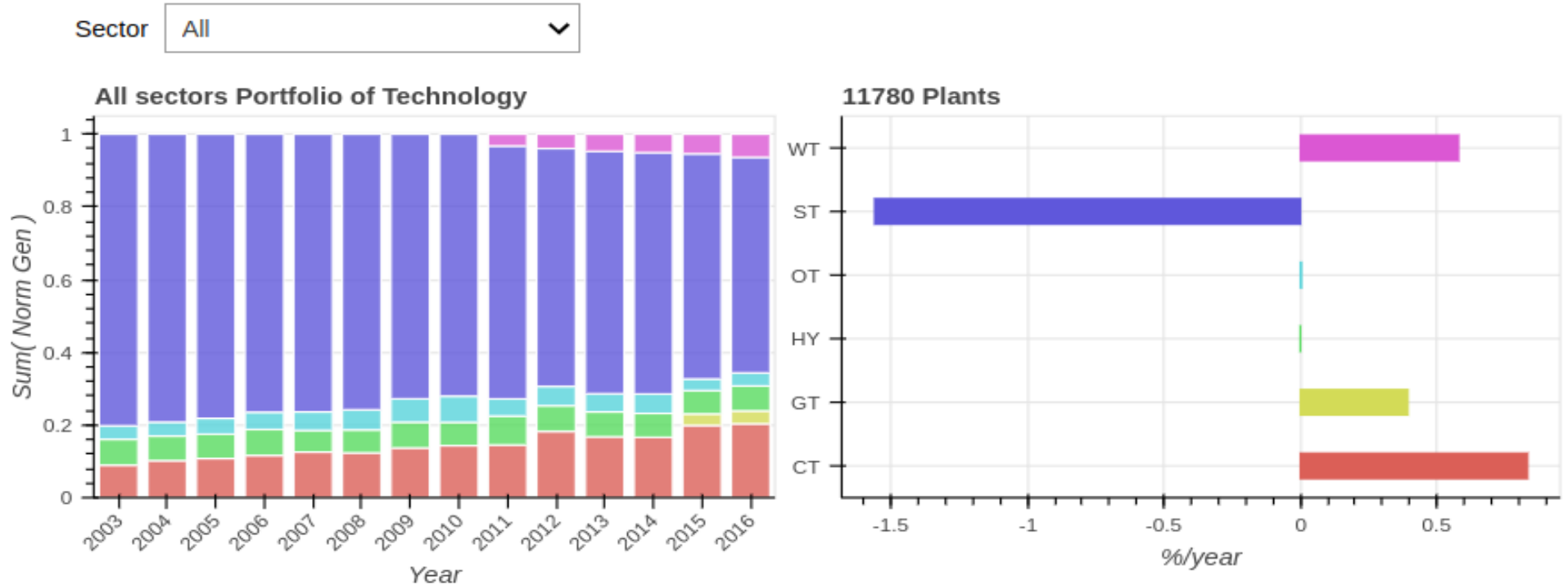## Fuel Type Used 18 classes

Capacity Continuous

Technology 13 classes

Fuel Trends

Natural Gas and Wind replacing Coal

Technology Trends

Combined Cycle and Wind Turbine Replacing Steam Technology