

Goal 1: Reduce per capita energy consumption and promote alternative fuel resources to increase affordability and resilience of regional energy supplies

Objective 1.7: Increase the number of local renewable energy projects and generating capacity

Metric: Number of certified renewable energy facilities

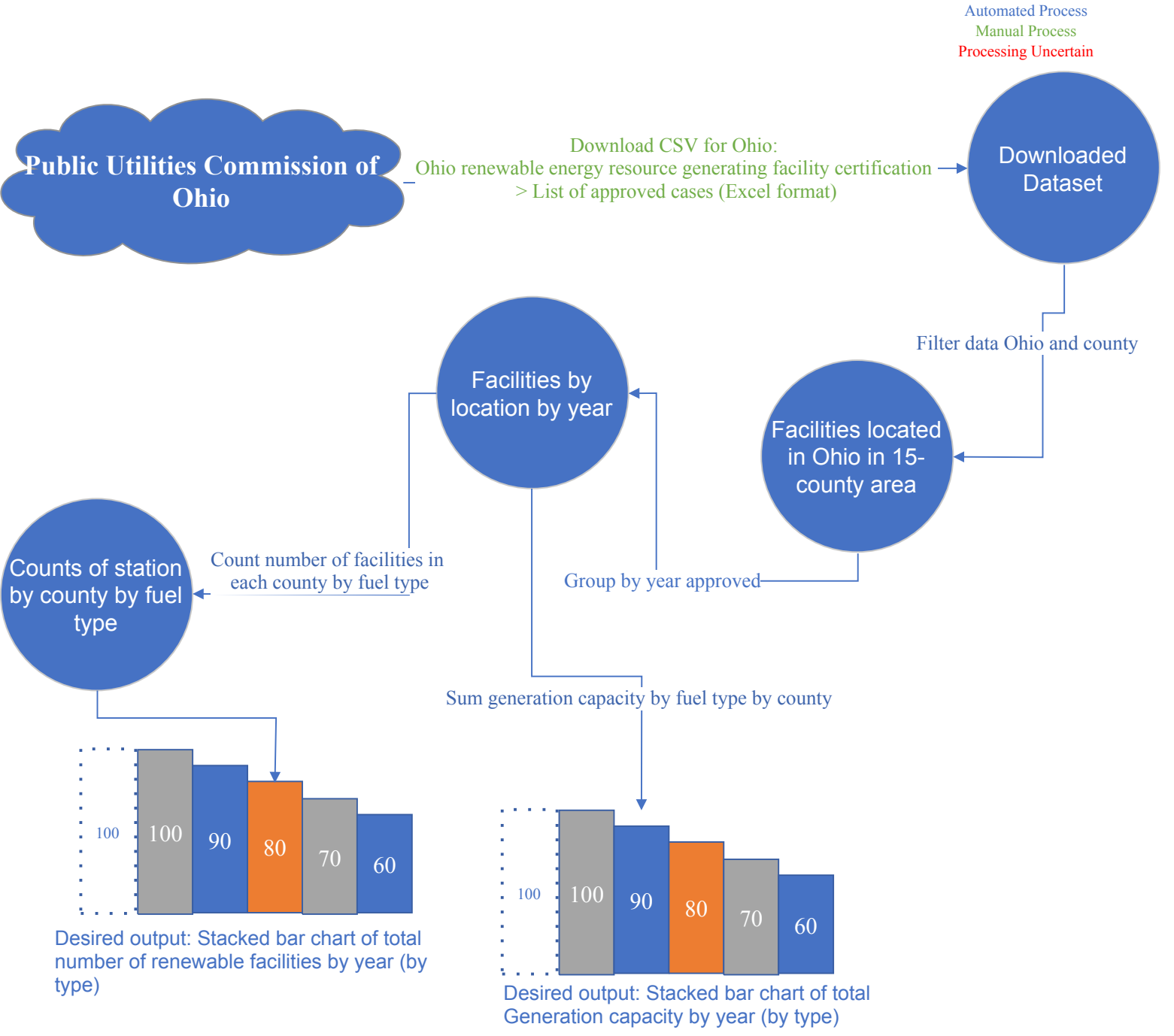
Unit of Measure: Number of certified renewable energy facilities and megawatts in generating capacity

Metric Data Source: Public Utilities Commission of Ohio

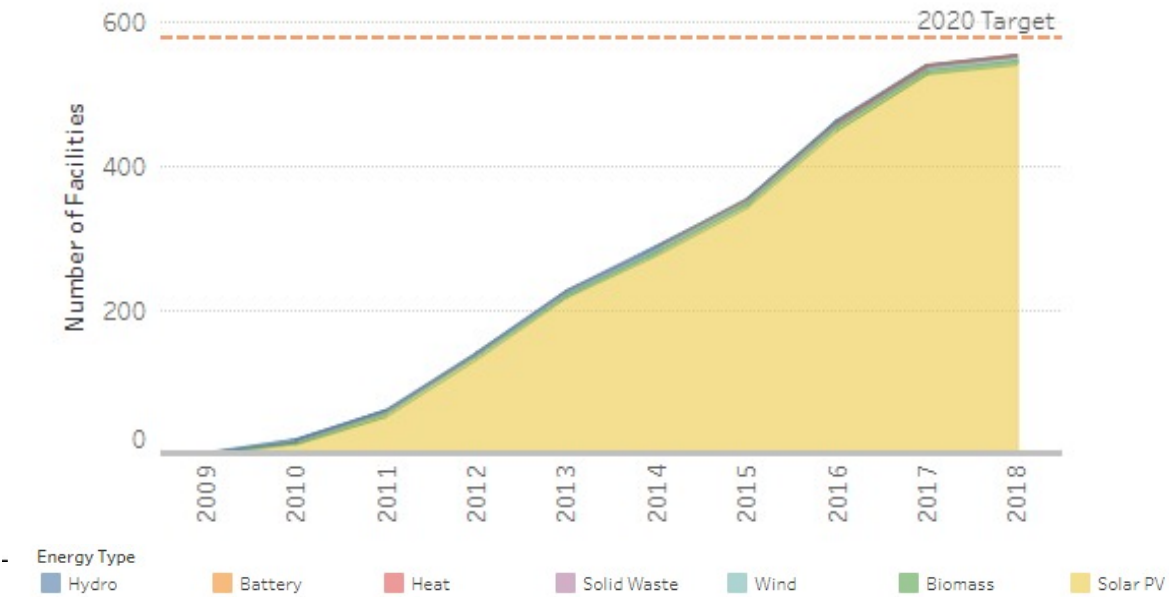
Sharing Method: Online data download

Target Value: 576 certified renewable energy facilities with a 25% increase in total megawatts of generating capacity

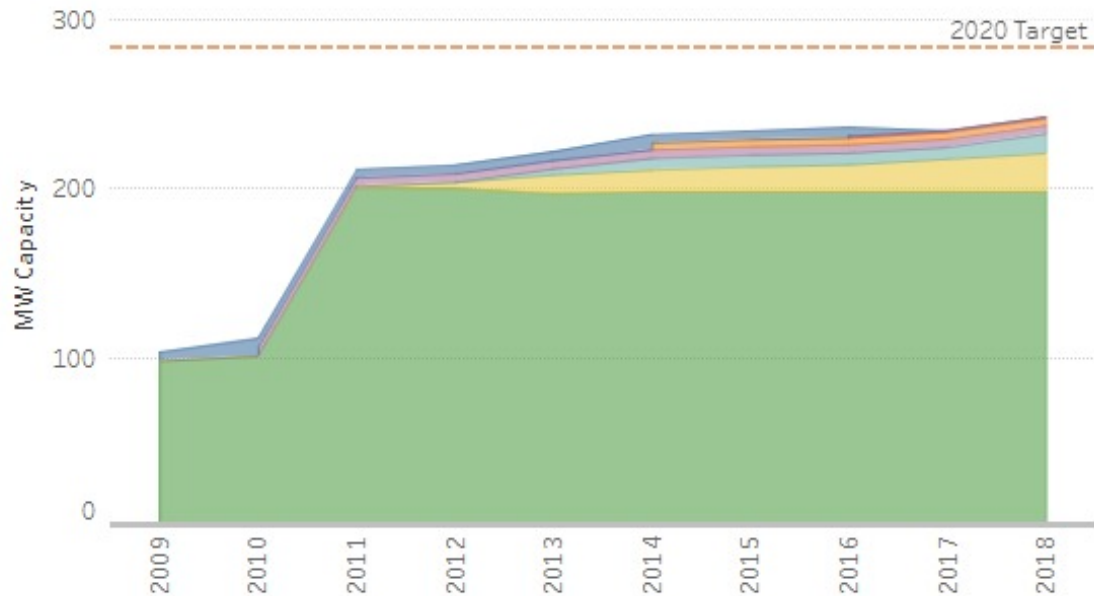
Baseline Value: Total capacity and facilities in 2009



Renewable Energy Facilities in Central Ohio, by Type (Running Total)



Renewable Energy Capacity in Megawatts (MW) in Central Ohio, by Type (Running Total)



Extra fun: Map of facilities
<https://www.puco.ohio.gov/puco/index.cfm/utility-maps/electric-maps/ohio-certified-renewable-facilities/>

Suggested Text

Compelling evidence presented by climate scientists had led to attempts to reduce greenhouse gas emissions globally and nationally. In the US and Ohio, the major greenhouse gas emitted through human activity is carbon dioxide. A major source of carbon dioxide emissions is electric generation from fossil fuels. Given the level of greenhouse gas emissions released from conventional electricity generation, the Intergovernmental Panel on Climate Change recommends that world governments replace fossil fuel energy sources with renewable energy sources including bioenergy, solar energy, geothermal energy, hydropower, ocean energy, or wind energy to mitigate greenhouse gas emissions and curb global warming trends.

This advice is especially sound for Ohio, where 86.6% of electricity is generated through fossil fuel combustion. According to the US Energy Information Administration, 39% of carbon dioxide emissions in Ohio are created from electricity generation. The Ohio Legislature and the Public Utilities Commission of Ohio (PUCO) have introduced regulation that requires a certain percentage of electricity sold to be generated from renewable energy sources, and the benchmarks are incrementally rising each year. PUCO states that 12.5% of all electricity sold will be generated from renewable sources by 2027, and that at least 0.5% of that will come from solar generation.

~Notes about progress~

Other websites:

PUCO How does Ohio generate electricity: <https://www.puco.ohio.gov/be-informed/consumer-topics/how-does-ohio-generate-electricity/>

PUCO Ohio’s Renewable Energy Portfolio Standard: <https://www.puco.ohio.gov/industry-information/industry-topics/ohioe28099s-renewable-and-advanced-energy-portfolio-standard/>

MORPC Franklin County Energy Study: <http://www.morpc.org/wordpress/wp-content/uploads/2018/06/2018-Franklin-County-Energy-Study-Recommendations.pdf>

US EIA Ohio Energy Profile: <https://www.eia.gov/state/data.php?sid=OH#Environment>

US EIA State Carbon Dioxide Emissions Data: <https://www.eia.gov/environment/emissions/state/>