



100% Renewable Goal

Presented by

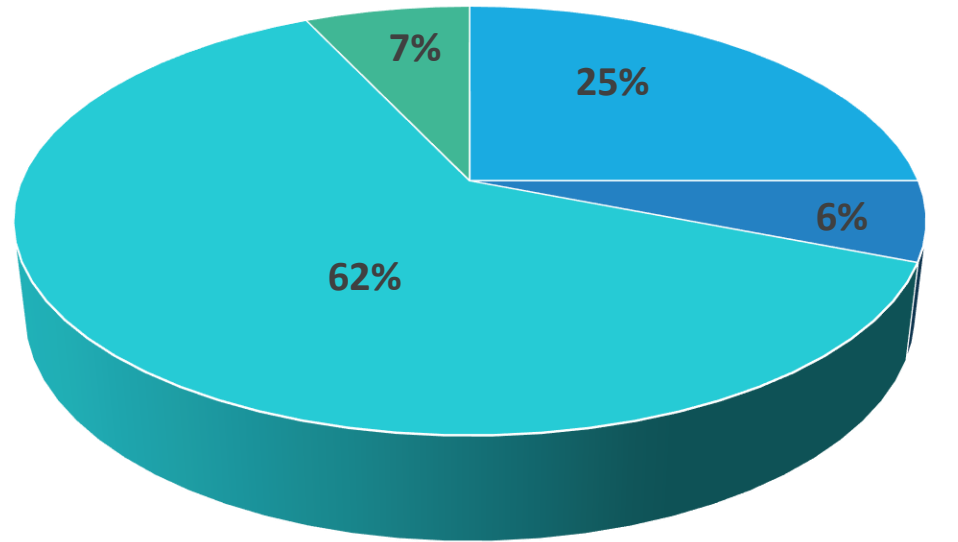
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Sustainability Office



Current State of the Goal

Progress to Date



■ Woodfin Landfill ■ Rooftop Projects ■ Left to Meet 100 ■ Duke

Total Consumption:

- Electricity
- Natural Gas
- Vehicle Fuels

= 20MW of Energy

County Total Consumption ~42,000 MWH

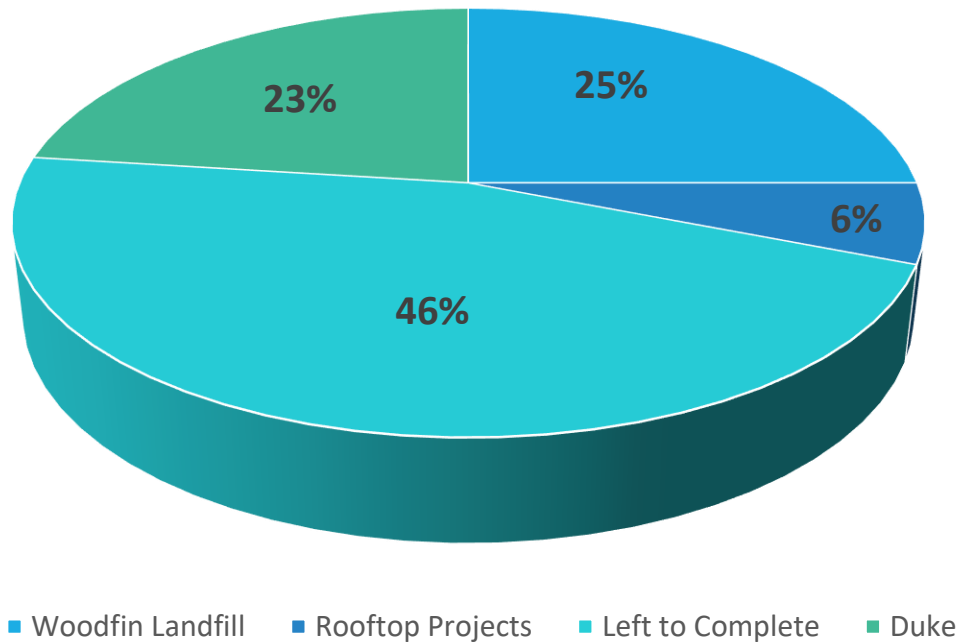
THE GAP

~26,000 MWH



Future State of the Goal

Est. by 2030



Assumptions:

- Duke meets their current commitments
- Vehicle fuel goes down due to increased EVs
- Electricity use increases
- County continues to increase its footprint

THE GAP
~19,500 MWH



Pathways



Another Utility Scale Project

- ~10MW needed
- Local/Regional
- On our utility grid (DEP)

Challenges

- Difficult to site – may need to be outside of Buncombe
- Timeline can be very long
- May require subsidization



Pathways

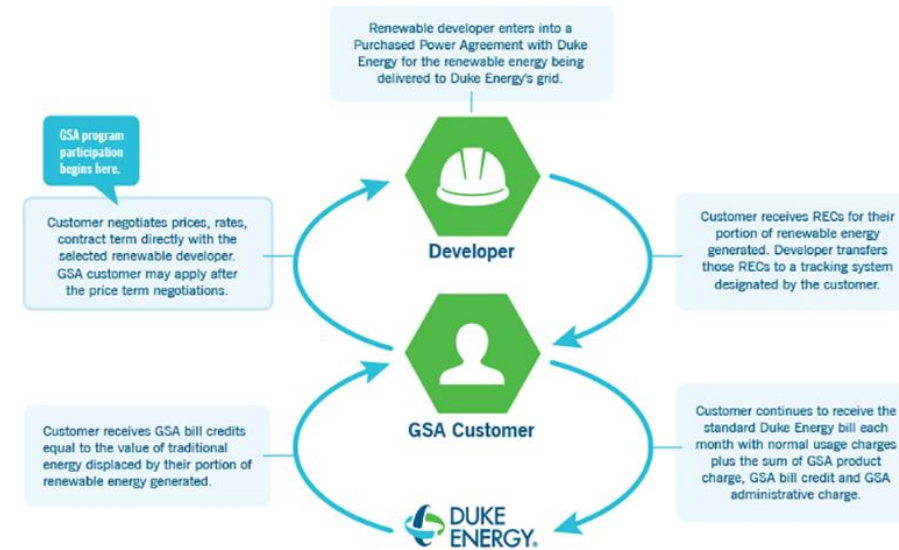
Utility Programming

Duke Energy Green Source Advantage (version?)

- Large customers work with renewable providers to procure RECs from a proposed site. Customer chooses provider and facility location.

Challenges

- No additionality – projects are already in the queue
- Duke has limited the program capacity to what they are already required to do under HB951
- Complex – hedging vs market rate; length of term, changes to avoided cost
- Time consuming and expensive (Charlotte signed on in Feb 2020 – not online)



Pathways

Procurement of Renewable Attributes (RECs)

Direct Renewable Procurement

NC Green Power

- Purchases RECs from the market
- Recent market prices have been ~\$4/REC (1 MWh)

Challenges

- Procurement would be annual
- Prices would fluctuate each year
- ~\$80,000/yr at current pricing



Decision Point

