

Meeting Renewable Energy Goals through the Green Source Advantage Program

January 4, 2021



Engineering and
Environmental Services

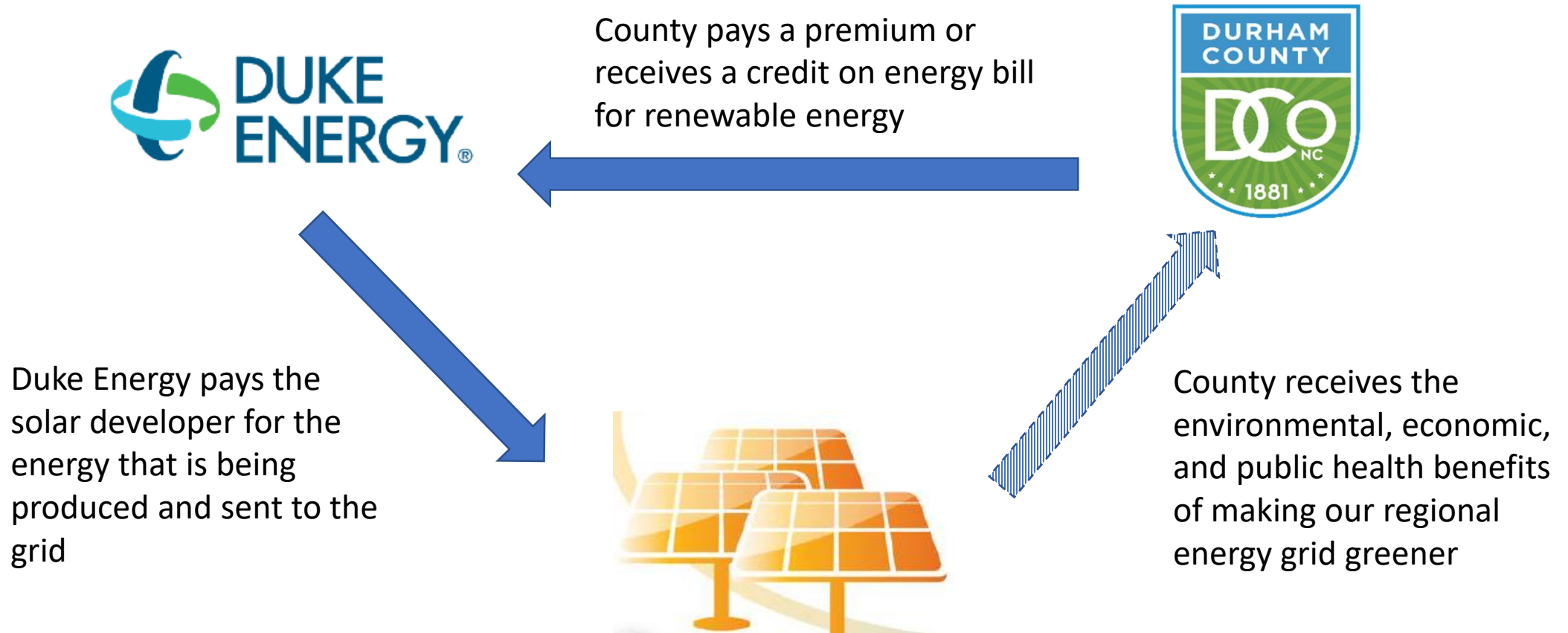
Background

- Greenhouse gas emissions reduction goals
- Renewable energy goal for County operations

GSA – What is it?

- Duke Energy's Green Source Advantage program (GSA) is a **renewable energy program** for large North Carolina customers who want to **support the development of renewable resources** and lower their carbon emissions.
- The program offers large customers the flexibility of **selecting and negotiating all price terms directly with a solar developer**, including the **purchase of renewable energy certificates generated** by that facility. First come, first served

How Does it Work?



Green Source Advantage

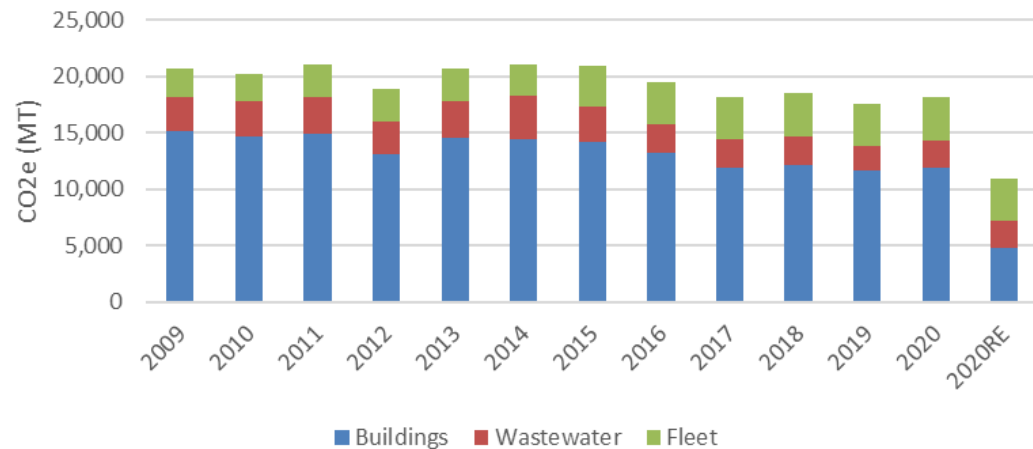


- **Benefits**
 - Offsite so space on roof/ground not required
 - Very low upfront cost – pay as you use
 - Flexibility on selecting projects
 - Costs reflect economies of scale
 - Additionality claim
 - Retention of Renewable Energy Certificates (RECs)
 - Up to 20-year term

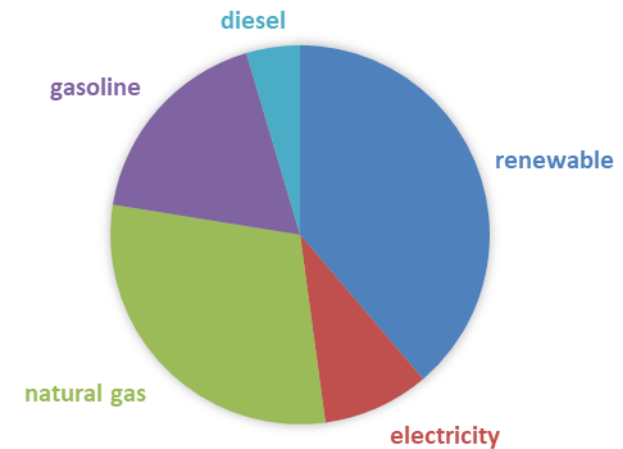
Why Participate?

- Participation in the GSA Program would:
 - Move County 94% of the way to our 2030 50% ghg reduction goal
 - Move County 49% of the way to our 80% renewable energy goal

Durham County Government GHG Emissions with GSA



DURHAM COUNTY ENERGY USE WITH GSA



Why Participate?






Emissions from 824 homes for one year
OR 16,480 homes total

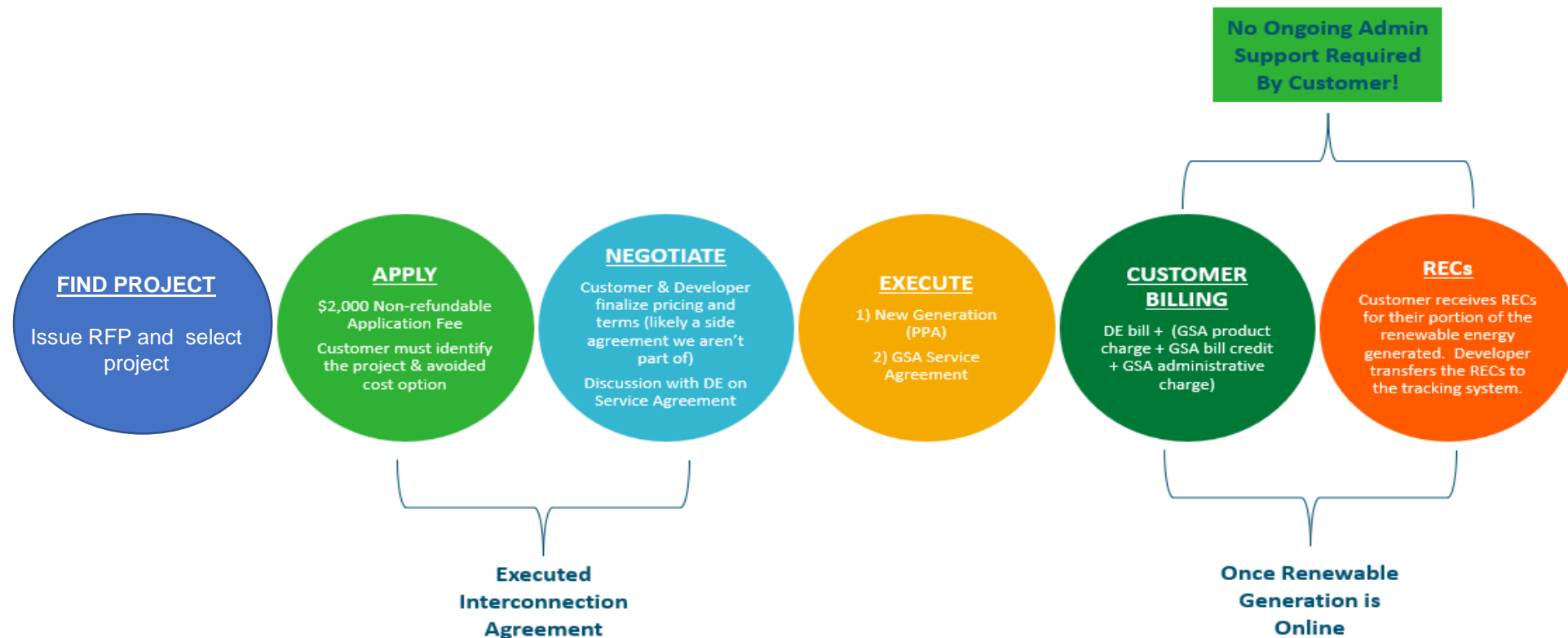


CO₂ absorbed by 118,000 tree seedlings for 10 years
OR 2,360,000 tree seedlings for 10 years total

Program Participants

		
25 MW	35 MW	101 MW
Will cover 45% of the electric load in the state & further demonstrates the company's sustainability commitment	Helping get to the goal of 100% zero carbon resources by 2030	3 solar projects to offset 50% of annual electricity needs and to help get to carbon neutral by 2024

Key Steps





Questions?