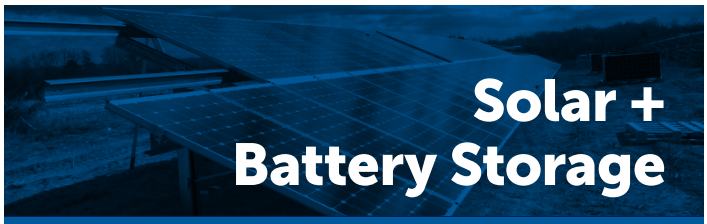

Solar + Battery Storage

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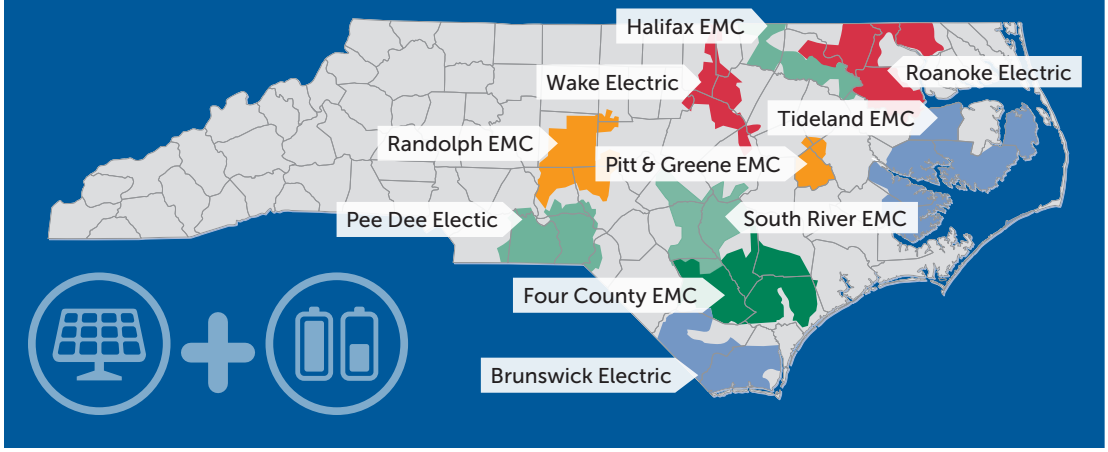
North Carolina's electric cooperatives are implementing new solar and battery storage technologies to make the electric grid more resilient, dynamic, flexible and efficient. These investments support the cooperative promise to deliver the most reliable and affordable power possible and allow for the expanded integration of solar energy as we work to achieve a lower carbon future for North Carolina.

Electric Cooperatives with Solar + Battery Storage



Solar + Battery Storage

Deploying these technologies together makes solar energy a more flexible resource. Solar is an intermittent power source, and pairing it with battery storage allows the stored solar energy to be used when needed, even if the sun is not shining.

North Carolina's electric cooperatives strategically locate solar and battery storage in areas where they can work together to improve reliability and resilience. Typical pairing ranges for these resources are:

- 1MW to 5MW solar array
- 2MWh to 10MWh battery storage

Grid and Community Benefits

- Increased grid flexibility and stability
- Improved power reliability and resiliency
- Enhanced environmental sustainability through lower carbon emissions
- Reduced power supply costs
- Deferred investment in traditional assets like new power plants

Partnership with North Carolina's Electric Cooperatives

North Carolina's Electric Cooperatives provide coordination services to distribution electric co-ops for solar plus battery storage projects, including:

- Leasing and contract agreements
- Project management from design through construction
- Control and integration of the various solar plus battery storage components to optimize the electric grid