NC EECBG: Battery Storage at 35 Woodfin

Presented by

Jackie Hamstead

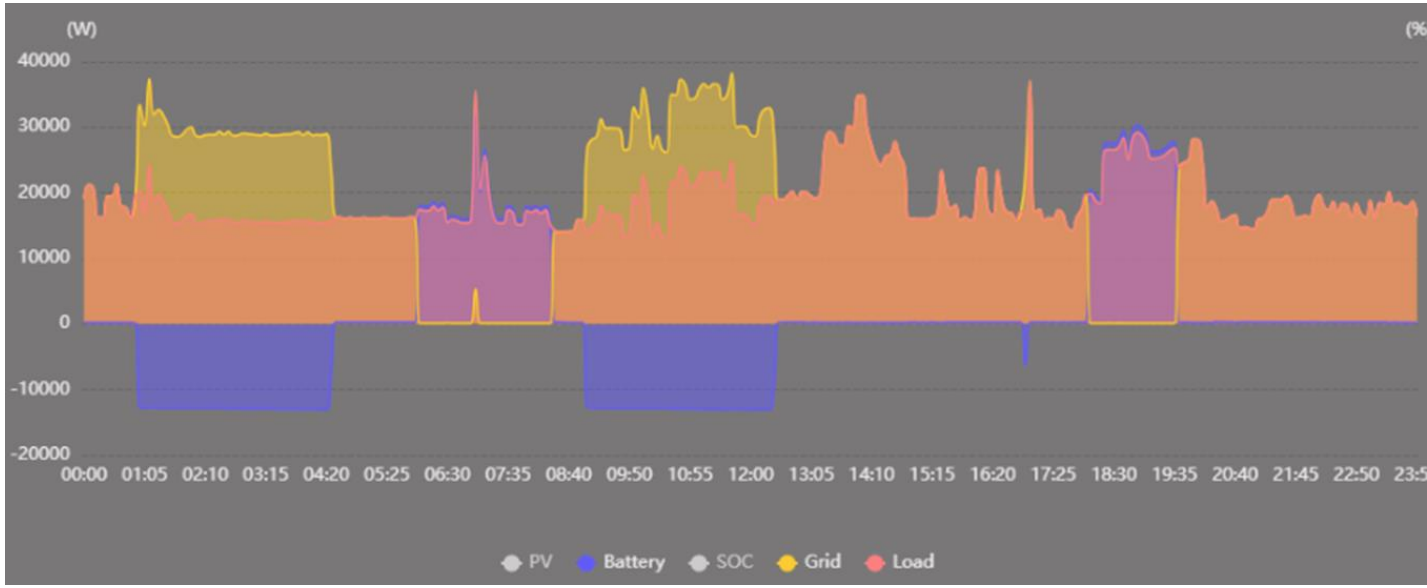
Office of Sustainability

Project Background and Details

- ✓ Energy Efficiency and Conservation Block Grant
  - ✓ Grantor is the NC State Energy Office.
- ✓ Award is for $225,586
  - ✓ No local match
- ✓ Project includes design and installation of ~180 kWh BESS
- ✓ 2024 electrification feasibility study
  - ✓ Intersection of PV, energy storage, utility rates, and financial modeling
  - ✓ 35 Woodfin- high estimated ROI
  - ✓ Guided assessment of battery manufacturers and installers

Purpose

- ✓ Alignment with Strategic Plan
- ✓ Increase County's energy use flexibility
- ✓ Minimize electricity demand charges
  - ✓ Lifetime estimate ~$589,000
  - ✓ Energy arbitrage
  - ✓ Maximize ROI of existing solar installation
- ✓ Identify an adaptable and scalable solution to meet current and future needs
- ✓ Model sustainable practices



kWh Energy Charge:

10.078¢ per On-Peak kWh
4.473¢ per Off-Peak kWh
2.736¢ per Discount kWh

Project Timeline

Duration	Activities
10 weeks	RFP Process
12 weeks	Design development
2 weeks	Obtain necessary permits, schedule site access
3 weeks	Site prep: grading, pour/ cure concreate pads, deliver materials
1 week	Install battery energy storage system
2 days	Commission energy storage system, configure energy management software

Project must be completed by December 2026

Questions?