Solar Programs in Virginia

Jason Carter, Shenandoah Valley Electric Cooperative
Lindsey Watson, Rappahannock Electric Cooperative
Sam Brumberg, Virginia, Maryland & Delaware Association of Electric Cooperatives

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Overview of electric cooperatives in Virginia

Overview of electric generation, transmission, and distribution

Solar in co-op service territories

Net Energy Metering (NEM) at co-ops

Small Agricultural Generation at co-ops

Future expansion

Project example
Electric Cooperatives in Virginia
Co-ops are ...

- Owned by their members
- Locally governed by elected Boards of Directors
- Operate at cost of service
- Return excess margins to their members
- Regulated by the State Corporation Commission (SCC)
How does electricity get to my house?

- Generation
- Transmission
- Distribution
Solar in Co-op Service Territories
Solar Options

- **Net Energy Metering (NEM)**
  - On-site self generation
  - Netted against consumption

- **Small Agricultural Generation**
  - On-site sale for profit
  - “Buy all, sell all”

- **Community Solar**
  - Subscriptions based on usage
  - Fixed supply rate

Utility-Scale Private Development
Net Energy Metering (NEM)

NEM is a billing practice that allows you to net the electricity you generate against what you consume at your home.

- Each co-op has a NEM tariff. NEM works differently at co-ops and Investor-Owned Utilities (IOUs)
  - Residential – up to 20 kW and 100% of load
  - Commercial – up to 1 MW and 100% of load
- Option to purchase Renewable Energy Certificates (RECs)
- Co-ops can work with you on interconnection/physical aggregation
Net Metering

Power Purchase Agreements (PPAs)

- Third-party PPAs are available to nonprofit and non-jurisdictional members

- Beginning on July 1st of this year, co-op boards can make this available to all members

- PPAs must be entered into with a registered provider
Small Agricultural Generation (SAG)

Small Agricultural Generation, or SAG, is a “buy-all, sell-all” product.

- Each co-op has a SAG tariff
- Co-ops must purchase up to the limits of the tariff
- Member receives payment for energy, capacity, and RECs
Community Solar

Community solar is a subscription-based product.

- 6 co-ops offer Community Solar:
  - ANEC
  - BARC
  - CVEC
  - MEC
  - NNEC
  - REC

- SVEC will soon offer

- Subscriptions can help save money on electricity supply in the long-term.
Future Solar Expansion
Future Expansion

Co-ops have been at the forefront of solar development and authorizing legislation.

Legislation passed this year will:

- Allow the authority for third-party PPAs for residential and commercial members
- Allow the authority for unlimited NEM caps in co-op territories
Future Expansion – 2023 and Beyond

Co-ops are working on ...

- Virtualization and aggregation of metering
- Shared solar projects
Small Farm Example

- 1 house
- 1 poultry house
- 1 well pump
- 1 barn
- Open field

Options:
- NEM behind each structure/meter
- Physical interconnection of facilities
- SAG in open field
- Private utility-scale in open field
Questions?