Electric Cooperatives of SC, Inc.
Government Relations
John Frick

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Adapted from a map drawn by J. Tindal, Central Electric Power Cooperative, Inc.

1. AIKEN
2. BERKELEY
3. BLACK RIVER
4. BLUE RIDGE
5. BROAD RIVER
6. COASTAL
7. EDISTO
8. FAIRFIELD
9. Horry
10. LAURENS
11. LITTLE RIVER
12. LYNCHES RIVER
13. MARLBORO
14. MID-CAROLINA
15. NEWBERRY
16. PALMETTO
17. PEE DEE
18. Santee
19. TRI-COUNTY
20. YORK

The Electric Cooperatives of South Carolina, Inc.
Cooperative System

Today (approx. 5 MW)

- Rooftop net-metered
- Colleton Solar Farm (SC)
Cooperative System

Approved Plan (approx. 10 MW)

- Rooftop net-metered
- Colleton Solar Farm (SC)
- Community Solar
Cooperative System

• Development driven by consumer interest
• Primary focus on two program areas:
  – Community Solar
    • Geographically dispersed
    • Range of choices/models
  – Net metering
    • Range of choices/models
    • Keep rooftop market viable
Cooperative System

Effect of density on cost-shift
$100,000 mile of line

$1,111.11
4.6 X higher
The EAC Report

Key Takeaways - Structural

**Business Model**

**Lower penetration**
- *Some* cost-shifting will occur between DG and non-DG consumers
  - Unavoidable under *current* rate structures
- When do we reach higher penetration? The “point of pain”.

**Higher penetration**
- Impact should scale in a more linear fashion

![Figure 8: Utility's Cost to Serve a Typical Residential Customer vs. Residential Rate Design](source: Adapted from "Net Energy Metering, Zero Net Energy, and the Distributed Energy Resource Future," Rocky Mountain Institute, 2012.)

- **Fixed**: 63%
- **Variable**: 37%
- **Basic Facilities Charge**: ranges from $6.50 to $24.95 for a set of South Carolina electric service providers.

The volumetric energy charge varies with consumption. This charge also recoups some fixed costs.
Cooperative System

Effect of density on cost-shift
$100,000 mile of line

- $100,000

Cost
Cost -1
Difference

Least Dense IOU

Least Dense Co-op

$4761.90
$5000.00
$238.10

14 X higher

$16,666.67
$20,000.00
$3,333.33
Questions?