

## Finding the Sunny Side of Net Metering: NHEC's Innovative Approach

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> Innovative Clean Energy Strategies of Rural Electric Cooperatives

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## NH Electric Cooperative Overview

- 83,000 member-owners across 115 towns
   2<sup>nd</sup> largest utility in NH
- ~\$150 million revenue
- ~180 MW peak; ~800 million kWh/year
- ~5,500 miles of lines; ~14 members/mile
- Distribution-only (no G&T)
- Mostly <u>not</u> subject to PUC regulatory oversight



# Net Energy Metering (NEM) in NH

- NH RSA 362-A:9 statute (1998+)
   NHPUC 900 rules
- 50 MW net metering cap statewide
   NHEC share = 3.16 MW
- NHEC Net Metering Payments: — <100kW: Full retail (~13¢/kWh summer) — >100kW: Avoided energy only (~7¢/kWh summer)
- Problem: Who maintains the poles and wires if coops pay full-retail for NEM?







## "Houston, We Have a Problem"

- Clean energy advocates aware NHEC near cap

   Initiating legislative effort to raise NEM cap
   "Wrong answer"
- Very strong support for NEM and Renewable Energy among NHEC members
- State law completely silent about NEM once "above-the-cap"
- What to do?



# "No, We Have an **Opportunity**!"

 Without statutory direction or PUC regulation, NHEC "free to do what's in members' interest"

- What do members want?

- Board, Management, and Legal Counsel...
  - Bought time by voluntarily raising cap to 3.40 MW
  - Considered multiple options
    - Consultant: Fixed charges, feed-in tariffs, TOU rates, etc.
  - Met several times with interested members, advocates, and stakeholders
- Focus of discussions: How to Both Encourage RE <u>and</u> Maintain the Distribution System?



### Old (Below Cap) vs. New (Above Cap) NEM Rates

#### All ¢/kWh values are merely illustrative!



A Touchstone Er

Cooperative

## But What Did Members/Advocates Get?

- NHEC Board NEM Policy Statement: "A net metering program which fairly balances NHEC's goal of encouraging member-sited renewable generation with NHEC's goal of minimizing cost shifting will be sustainable in the long run, and if periodically adjusted, can make predetermined 'caps' unnecessary."
- *Net Metering Cap Eliminated* at NHEC.



#### New Hampshire Electric Cooperative Net Metered Capacity (AC kW)



## **Unexpected Serendipity**

- "We found that, on average, we could attribute an **increase in usage** of about 52% to the PV accounts."
  - Nice surprise; not yet clear why
  - Best guess: Heat pumps replacing fossil-fuel HVAC
- What are the **actual dollars** we're talking about?
  - Nameplate x (Hours x Capacity Factor) x ¢/kWh
  - 6244 kW x (8760 x 25%) x 4¢ (@full-retail) = ~\$550K (not counting value of RECs) = <0.37% of revenues
  - Get 52% of that back => ~\$263K (not counting value of RECs) = <0.18% of revenues</p>



## Conclusions

- Other NH utilities are now meeting their NEM caps too
  - Regulators/advocates/utilities looking to NHEC's innovative solution as "guidance" or "example"
  - So, NHEC's initiative may help establish state policy
  - "The best way to predict the future is to create it."
- Keys to this leadership opportunity:
  - NHEC's willingness to take the initiative
  - The flexibility provided by cooperatives' member governance (i.e., cooperative business model)



# **Thank You for Your Attention!**

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