

Senate
Natural Resources & Energy
Committee

Washington Electric Cooperative

January 27, 2016

Patty Richards

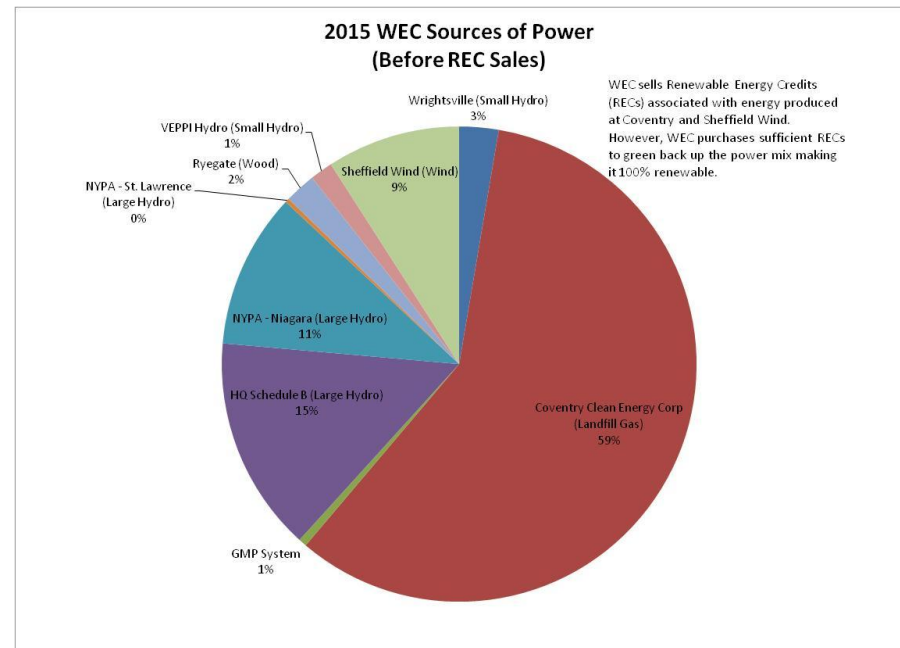
About WEC

- Electric Cooperative – Not for Profit
 - Established in 1939
- Peak 16 MW (Winter)
 - State of VT ~ 1,000 MW Peak (Summer)
- 70,000 MWH Retail Sales Annually
- 1% of State Load
- 11,000 members
- 41 towns 4 counties Central Vermont
- 96% of our members residential
- Very rural and little commercial base
 - WEC 8 members per mile
 - GMP is 20 customers per mile
 - BED 87 customers per mile
- WEC largest cost driver is infrastructure (wires, poles, substations, etc)
 - Power Supply Costs ~ 7 cents/kWh
 - All other costs ~ 14 cents/kWh
- Average residential user ~ 500 kWh per month (12% less than statewide avg)



About WEC

- WEC supports renewable power
- WEC Supports Net Metering
- Before REC sales 125% renewable sources
 - Instate sources of power 70%
- Early adopter of Energy Efficiency since 1991



Net Metering

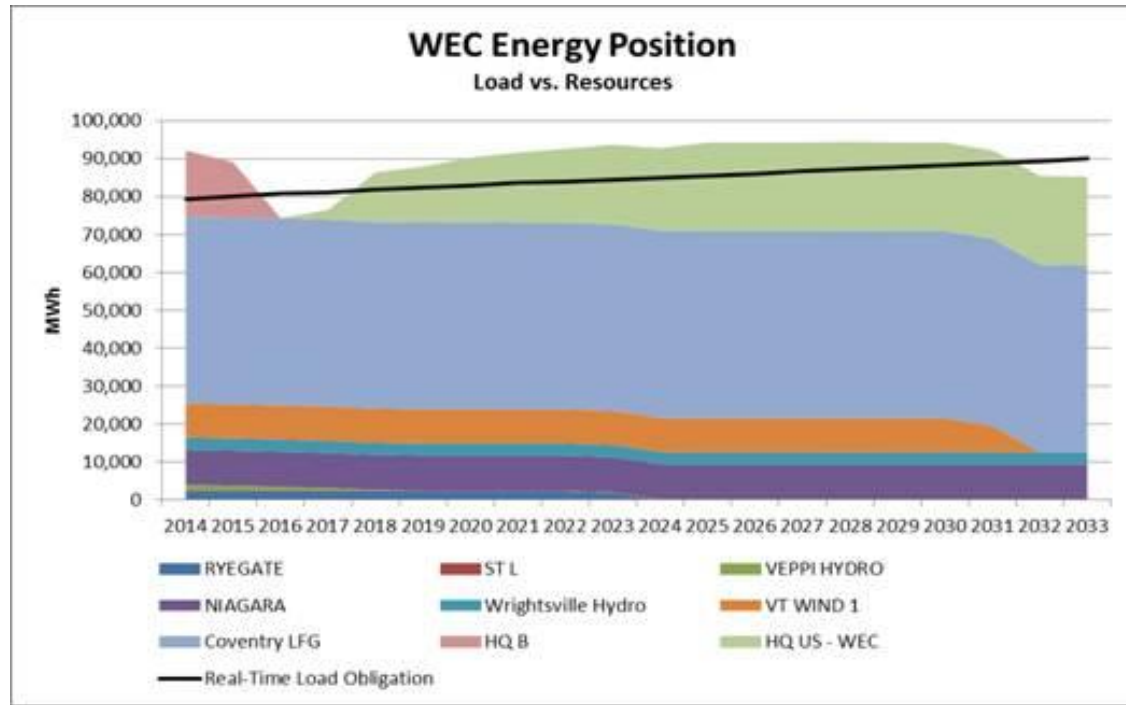
				1996 Peak kW	Oct 2014 - Oct 2015 Peak kW
				13,096	15,914
	Legacy Net Metering (installations prior to Oct 2013) kW	New Net Metering (Installations July 2014 to date) kW	Total Net Metering kW	Percent of 1996 Peak	Percent of last 12 month peak
CPGs Awarded	1,396.60	333.39	1,729.99	13%	11%
Systems Connected	1,396.60	272.55	1,669.15	13%	10%
Applications Pending	-	60.84	60.84	0%	0%

Net Metering

- Legacy (prior to Oct 2013)
 - 203 Members
 - Avg 6.0 kW
 - Max 57 kW
 - Min 0.6
- New Net Metering Program (July 2014 forward)
 - 49 Members
 - Avg 6.9 kW
 - Max 34 kW
 - Min 1.8 kW

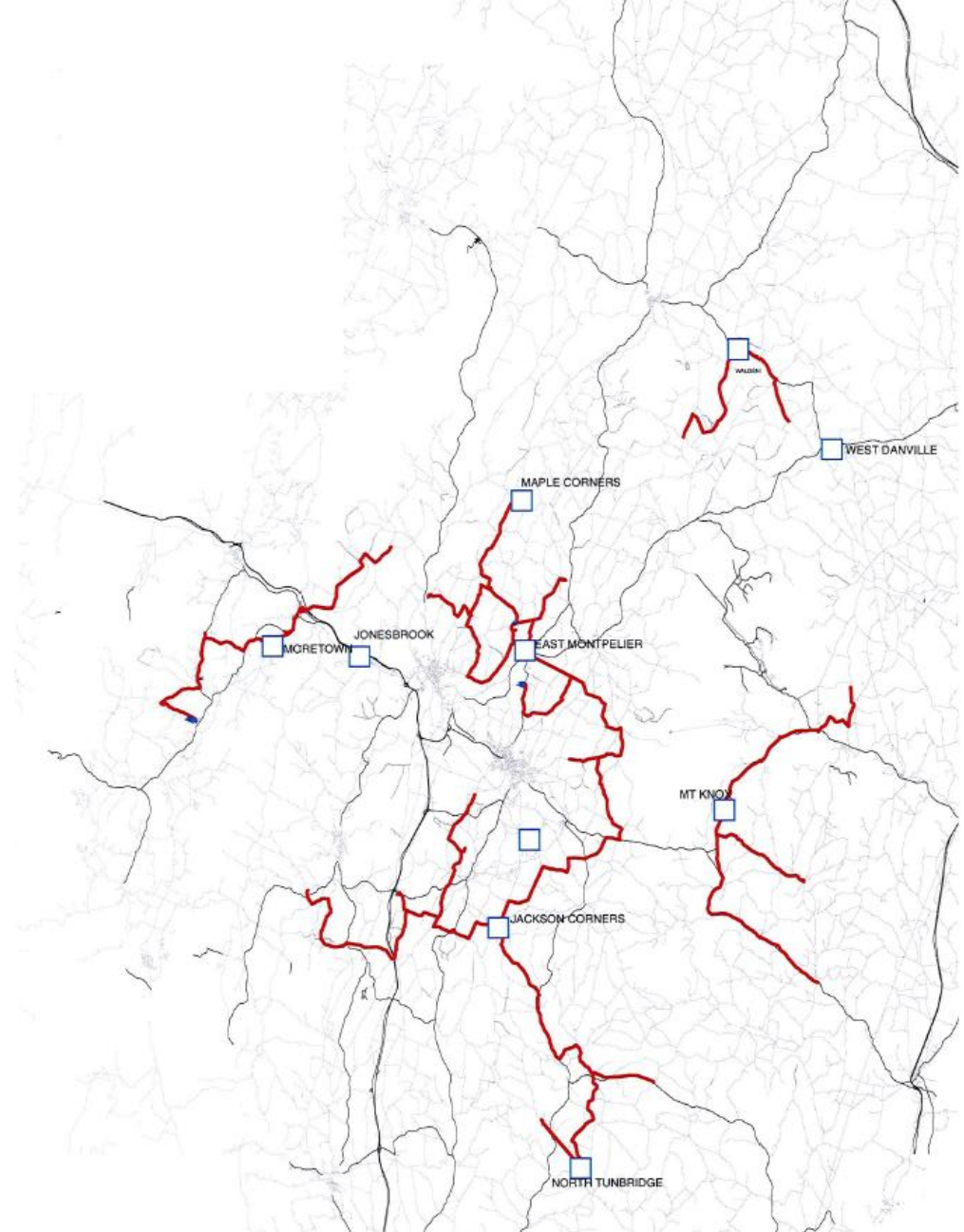
WEC Existing Power Supply Commitments Long Term

- Net Metering:
 - No offset to WEC's future sources of power
- Long term WEC is excess
- WEC future sources renewable based
 - Net metering more powerful for those utilities that need new sources of power
- WEC already met/exceeded state goal of 90% renewable
- Net Metered energy offset to other Renewables



WEC's system

- WEC 3 Phase Lines in red
- Light gray other lines
- 1,263 miles overhead line
- 151 miles of 3 phase (12% of overhead wires)



Cost of Three Phase Lines

- One project cost \$600,000
 - 7.5 miles of 3 phase line upgrade
 - Standard Offer project
 - 3.5% rate increase if WEC members had to pay
 - WEC gets no benefit from Standard Offer projects
- Many projects will cause severe rate impacts if cost passed on to WEC members
- Larger renewables can afford to pay for upgrades
 - 2.2 MW Solar between 11.9 and 13.4 cents per kWh
- WEC already 100% renewable

2014 STANDARD OFFER RFP AWARD GROUP

DEVELOPER	PROJECT NAME	LOCATION	TECHNOLOGY	SIZE (MW)	PRICE (\$/kWh)
DEVELOPER BLOCK					
AWARD GROUP					
HelioSage, LLC	Whiting Solar Center	Whiting	SOLAR	2.2	\$ 0.1187
HelioSage, LLC	Mountain View Solar Center	Williston	SOLAR	2.2	\$ 0.1198
Green Peak Solar, LLC	Next Generation Solar Farm	New Haven	SOLAR	2.1	\$ 0.1287
RESERVE GROUP					
Green Peak Solar, LLC	New Haven Solar Farm	New Haven	SOLAR	2.1	\$ 0.1327
Otter Valley Solar Farm, LLC	Otter Valley Solar Farm	Florence	SOLAR	2.2	\$ 0.1338

Thank You

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