

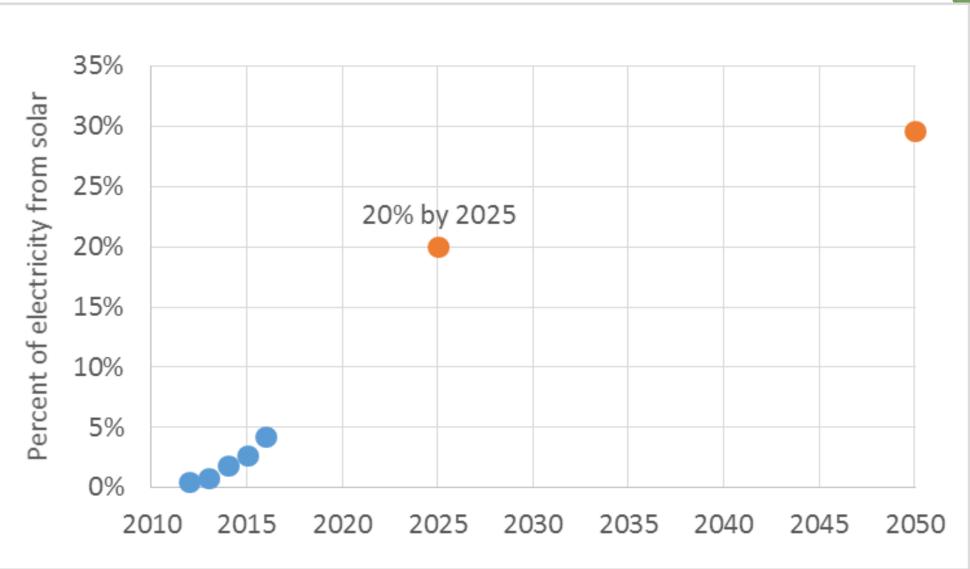


Mid-scale (150-500kW) solar project capacity dropped 73%

Small-scale (15-150kW) solar project capacity dropped 35%

Residential scale solar project capacity dropped 19%

# 232 lost full time solar jobs in VT in 2017



More than 5 times the amount of solar installed in VT at the end of 2016 is needed





# "Preferred" Project Locations

- On a pre-existing structure
- Parking lot canopies over permitted paved areas
- Previously developed land
- Brownfields
- Landfills
- Gravel pits
- Town-designated sites
- Superfund sites
- > On the same parcel as an customer taking 50% or more of the output

# 2017 Permitted Net Metered Solar Projects - Category II & III

Site Type	15 - 150kW # of Projects	Capacity (kW)	>150 - 500kW # of Projects	Capacity (kW)	Total Number
Rooftop	86	5387.07	7	2766.4	93
Gravel pit	2	346	6	3000	8
Town/RPC	4	524.8	2	1000	6
50% onsite	2	66.32	2	1000	4
Parking lot canopy	0	0	0	0	0
Pre-developed impervious surface	1	150	0	0	1
Brownfield	0	0	0	0	0
Landfill	1	150	0	0	1
NPL	0	0	0	0	0
				Total:	113

## Net Metering 2.0 Grandfathering & Non-bypassable Charges

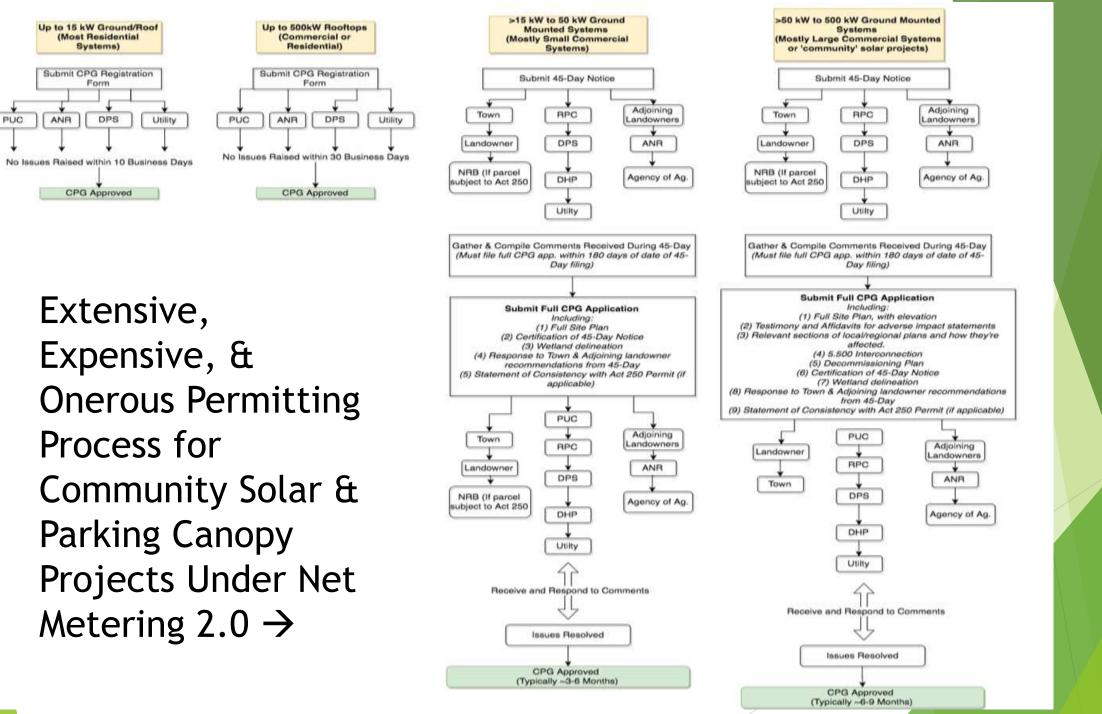
- The rules grandfather existing systems under their existing financial regime until they are 10 years old; after 10 years, production is credited at the blended residential rate and credits may not be applied toward nonbypassable charges.
- New customers may not use net metering credits toward non-bypassable charges:
  - Customer Charge
  - Energy Efficiency Charge
  - Energy Assistance Program Charge
  - On-bill financing



## Net Metering 2.0

- Four categories of Net Metering systems, plus hydro
  - Category I: 15 kW and under = +1 cent/kWh siting adjustor for 10 years
  - Category II: 15-150 kW on preferred sites = +1 cent/kWh siting adjustor for 10 years
  - Category III: 150-500 kW on preferred sites = -1 cent/kWh siting adjustor for lifetime
  - Category IV: 15-150 kW not on preferred sites = -3 cent/kWh siting adjustor for lifetime
  - Hydroelectric = no siting adjustor, just retail
- 150-500 kW projects allowed only on "preferred locations"
- Biannual proceeding to revisit adjustors, category definitions, and levels of compensation
  - Changes to be informed by the pace of development of different types of NM
- Customer bill credit based on whichever is lower, the utility's blended residential rate or the statewide average blended residential rate
- REC adjustors:
  - +3 cents/kWh credit for ten years if RECs go to utility, then utility permanently owns RECs for no compensation to the customer / project owner
    - Utilities cannot resell the RECs given to them by net metering customers
  - -3 cents/kWh (debit) for the life of the system if RECs are held by the customer / project owner







## **Challenges Ahead**

- Community Solar Economic Viability
- Ensuring Access & Participation by Low & Moderate Income Vermonters
- School, Towns, Hospitals, & Colleges Now Capped Out
- Integrating Energy Storage to Maximize Resilience & Solar Generation Value
- Grid Constraints & Modernization Needs
- Data Accuracy & Transparency (CPG applications, permits, & installations) for Tracking Progress
- Trump Administration Tariff Increasing Solar Panel Prices
- Limited # of "preferred sites" for future projects & higher permitting & construction costs on those sites
- Federal Income Tax Credit Drops in 2020
- Reduced customer confidence due to regulatory uncertainty



#### **Innovations in Solar**

#### SunCommon's Solar Canopy



#### **Pollinator-Friendly Solar**

- Uses land under solar arrays to plant native plant species
- Creates habitat for bees, birds & other threatened pollinators
- Improves storm water management & soil quality
- Example in VT: South Ridge Solar Field in Middlebury
  - Collaboration between Middle Road Adventures & "Bee the Change"

- Enables solar over driveways, parking lots, patios, woodpiles, etc.
- ✓ Generates enough solar for the average Vermont home
- Glass solar panels absorb light from both the front and back to take advantage of the snow
- ✓ No upfront cost, low-interest financing







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