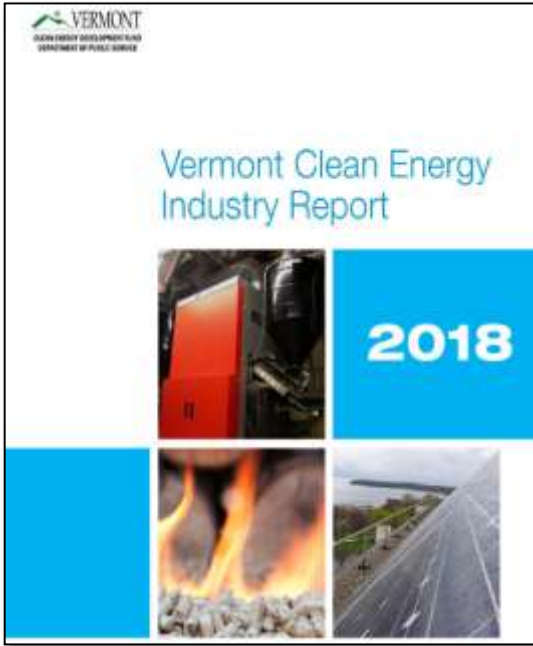


# VERMONT CLEAN ENERGY INDUSTRY REPORT



*“The state is home to approximately **18,800** clean energy workers.”*

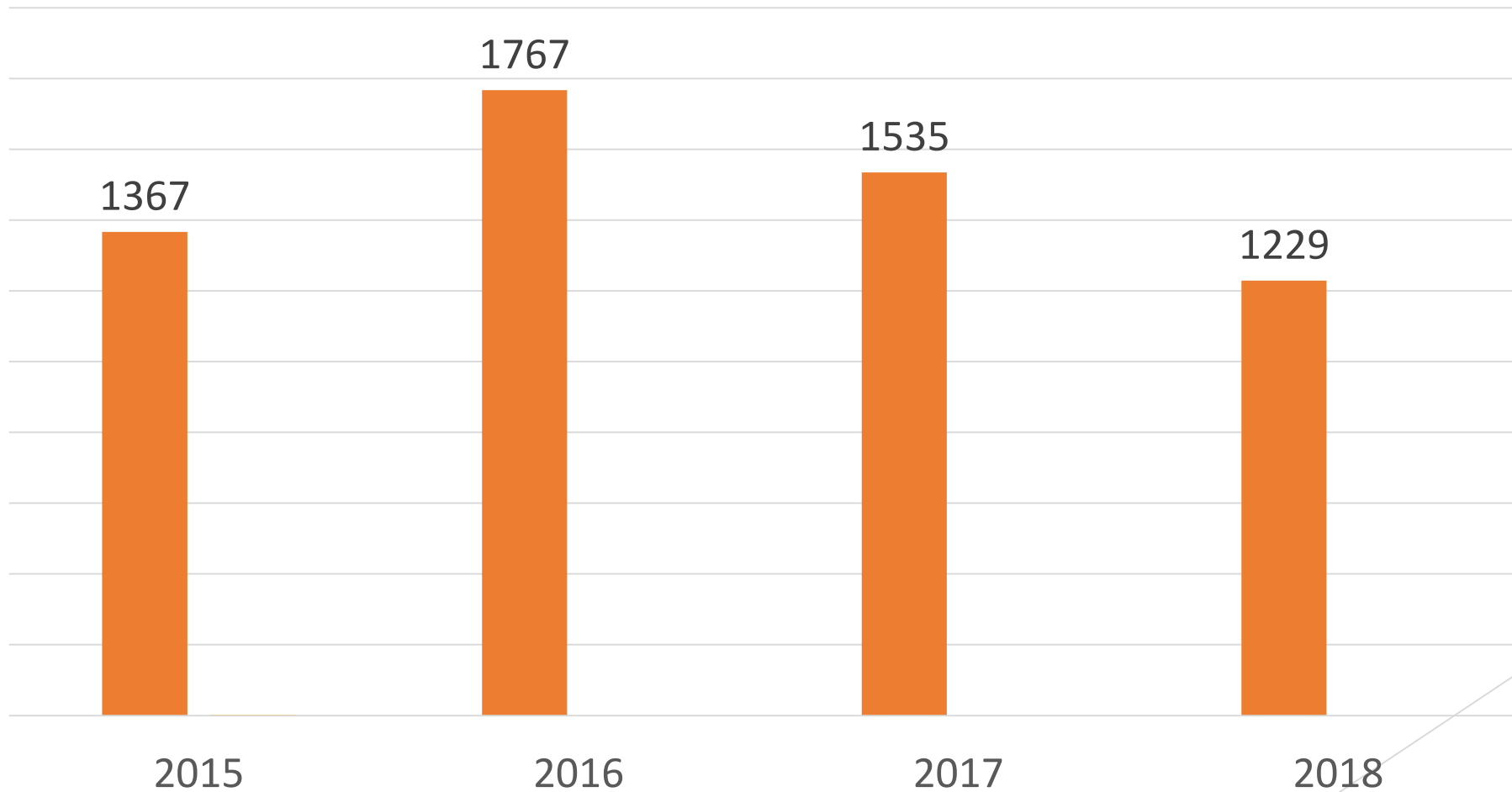
*“Clean energy jobs in Vermont provide higher median hourly earnings—about **\$26.71**.”*

*“[S]olar jobs do remain the largest segment of Vermont’s renewable electricity workforce, accounting for just over a third of total renewable energy workers”*

*“For the first time since the Vermont Clean Energy Industry Report’s inception in 2013, the state’s clean energy economy exhibited a decline in employment, driven largely by losses in the solar industry.*

*... In Vermont, the shedding of [215] solar jobs came alongside a decline in solar installations over the same period of about 9%.”*

# *Vermont Lost 538 Solar Jobs in last 2 years*



# of applications / proposed projects

<b>Project Size</b>	<b>7/1/2017 - 2/12/2018</b>	<b>7/1/2018 - 2/12/2019</b>
<= 15 kW	1,586	1,070
15 kW - ≤150 kW	76	71
>150 kW - <500 kW	2	8
500 kW	15	12
<b>Total</b>	<b>1,679</b>	<b>1,161</b>

**New Solar Project Applications Dropped 31%**

# Factors Affecting Vermonter Solar Adoption

	NM 1.0 2014	NM 2.0 2017	NM 3.0 2018	NM 4.0 2019
500 kW Cap	No	Yes	Yes	HB 423
Federal ITC	30%	30%	30%	26%
Interest Rates	Low	Low	Medium	Medium
Panel and Materials Tariffs	No	No	Yes	Yes
NM Customer Self Generation Compensation	Base	-30%	-41%	-46%
Interconnection Costs Grid Modernization	Base	+300% - +800%	+450% - +1200%	Interconnection /Grid Rule Update
Permitting Complexity	20 pages	200 pages	200 pages+	HB 366
Permitting Time	2-6 months	4-12 months	6-18+ months	HB 366

Table 8 – Applicable Gross Receipts Tax by Sector Since 1973

Type of Company	Electric	Telephone	Gas	Water	Cable TV	Customer Owned Coin Operated Telephone Companies	For All Other Companies (i.e. sewer)
FY11-FY16	0.005	0.0050 (or \$500 if greater)	0.003	0.0010 (or \$5.00 if greater)	0.0050 (or \$25.00 if greater)	Customer-coin-operated telephones with total annual revenues of less than \$5000, the choice of either .0050 of gross from telephone revenues or the amount of \$20.00	0.001

# Alternative Options

- ▶ Increase the GRT on gas
- ▶ Apply the GRT to wholesale electricity sales 5 MW and greater
- ▶ Audit bill back collections & more timely billing from DPS & other state agencies
- ▶ Utilize bill back authority for contested cases for larger projects

# Administration \$ request = \$800,000

## Options: Additional / New GRT revenue

	<b>FY 20</b>	<b>FY 21</b>	<b>FY 22</b>
<b>GRT – gas</b>	0.00525	0.006	0.00675
<b>additional/ new GRT revenue - gas</b>	\$ 232,714	\$ 310,285	\$ 387,856
<b>GRT - electric</b>	0.00525	0.0055	0.00575
<b>additional/ new GRT revenue - electric</b>	\$ 275,283	\$ 550,566	\$ 825,849
<b>GRT - wholesale electricity sales 5 MW+</b>	0.00525	0.0055	0.00575
<b>Additional/ new GRT revenue 5 MW+</b>	TBD	TBD	TBD

# PUC Disposition of Net Metering vs. Telecom Cases

FISCAL YEAR 2018 (7/1/2017 -6/30/2018)

Net Metering CPGs (not inc. registrations)				Section 248a Telecommunications CPG			
<b>Total Filed</b>				<b>Total Filed</b>			
<b>80</b>				<b>154</b>			
<b>Time to Disposition</b>	60 days	6	8%	<b>Time to Disposition</b>	60 days	129	84%
	61-90 days	13	16%		61-90 days	21	14%
	91-180	23	29%		91-180 days	2	1%
	181+ days	19	24%		181+ days	1	1%
	withdrawn/dismissed	5	6%		withdrawn/dismissed	1	1%
	<b>Pending on 2/9/2019</b>	<b>14</b>	<b>18%</b>		<b>Pending on 2/9/2019</b>	<b>0</b>	<b>0%</b>

*Data from ePUC. Disposition from date of filing to final order/CPG.*

*Net metering CPGs = "Applications" and "Petitions" under PUC Rules 5.106 and 5.107.*

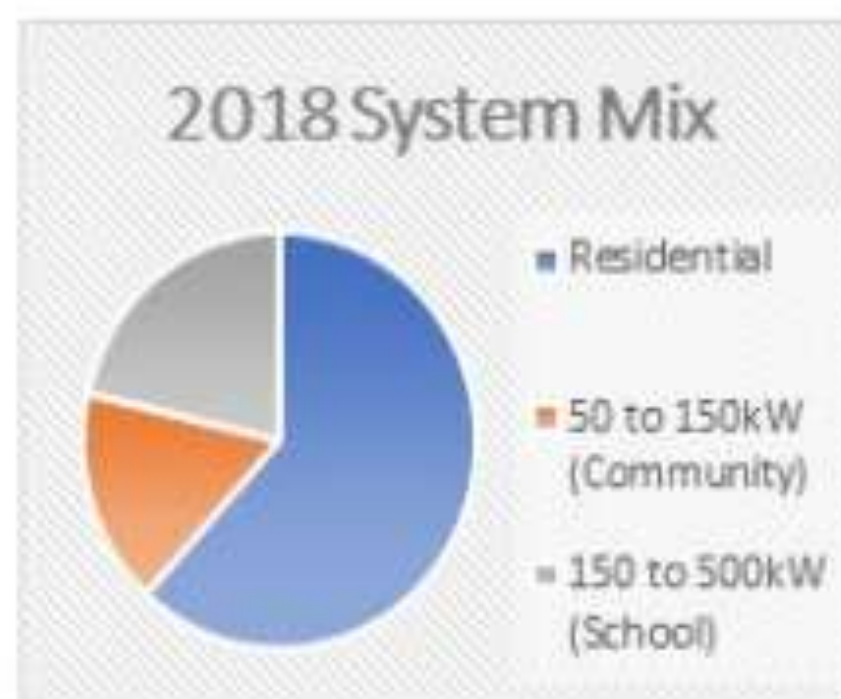
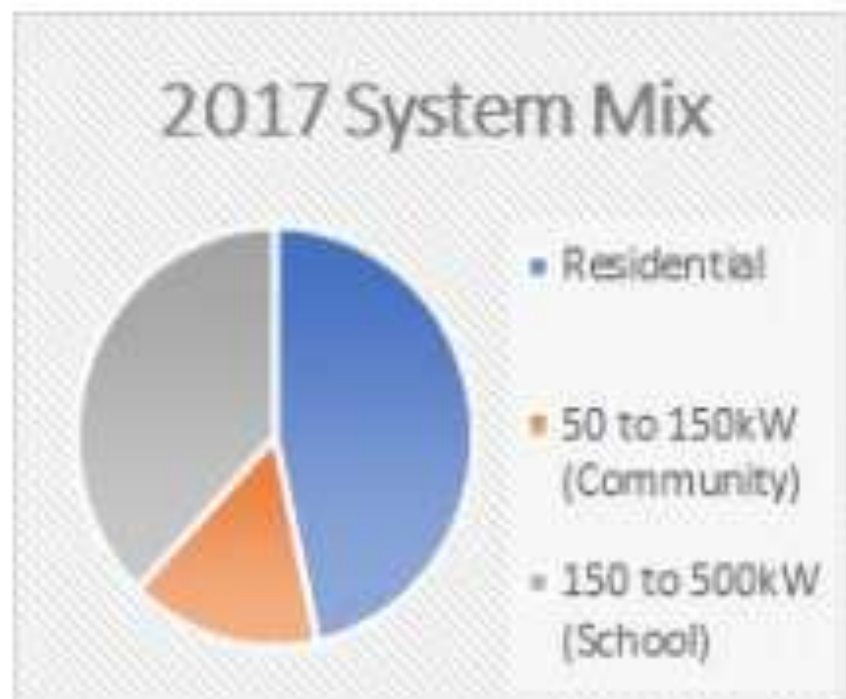
*Only 4 of the pending net metering cases were ordered a hearing.*



# Simple Registration Process is Efficient



	Time Period				% Change
	7/3/17 to 3/25/18 (CPG requests in kW)	Current % Approved	7/3/18 to 3/25/19 (CPG requests in kW)	Current % Approved	
Residential	13,245		10,131		-24%
50 to 150kW	4,431		2,749		-38%
150 to 500kW	10,750	86%	3,500	34%	-67%





**Need to create efficiency in government operations and certainty for Vermonters generating their own renewable electricity by establishing clear timelines / process and certainty for CPG application review and permitting.**

**REV proposes language mirroring existing statute related the Public Utility Commission's timelines for review of local telecommunications and wireless projects.**

Recommend adding to 30 VSA § 8001:

(a) The General Assembly finds it in the interest of the people of the State to promote the State energy policy established in section 202a of this title by:

(9) Establishing mandatory timeframes for review and approval of renewable energy systems.

Recommend adding to 30 V.S.A. § 8010:

(f) Except for net metering systems for which the Commission has established a registration process, the Commission shall issue a final determination on an application filed pursuant to this section:

(1) within 60 days of its filing, or if the original filing did not substantially comply with the Commission's rules, within 60 days of the date on which the Commission notifies the applicant that the filing is complete; or

(2) if the Commission determines that the application raises a significant issue, within 120 days after a hearing. The applicant may waive the time limits established by this subdivision to resolve any issue of law or fact with the parties.



Olivia Campbell Andersen, Executive Director

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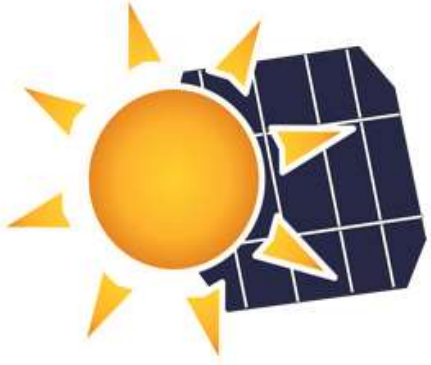
802-595-5373

# Net Metering Customers Pay “Non-bypassable” Charges

Net metering customers pay the following charges on their electric bill:

- ▶ Utility Customer Charge
- ▶ Energy Efficiency Charge
- ▶ Energy Assistance Program Charge
  
- ▶ All grid upgrades

# Solar in Vermont



In 2016, for every **1kW** of net metered solar, electric ratepayers **saved 6 cents** in lower regional capacity and transmission charges.<sup>5</sup>

## Independent Expert Analysis Shows Local Benefits

### Economic

**1,535** full-time jobs in solar trades & **\$22+ million** added to the local economy in 2017



### Health & Environmental



**\$1+ million/year** in emissions reductions  
CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>

### Utility

Increased grid efficiency & modernization; substations, line improvements, etc. paid for by net metered customers.



### Community

**\$1.7 million/year** in state tax revenue annually in just the Green Mountain Power service territory.



**For Less Than a Nickel a Month  
Net Metering Creates Many Benefits for Vermonters**



<sup>5</sup> Tariff Filing 8618 2017 GMP Base Rate Filing; Larkin & Associates, PLLC. Analysis of Rate Year Ending September 30, 2017, Green Mountain Power Corporation