Net Metering



Net metering systems permit a customer to own and operate a generator, usually on the customer side of the meter.

The amount of electricity generated by the customer offsets the amount of generation for which a customer is billed and the customer receives credit for any excess generation.

Net metering systems are a form of distributed generation.

Original Statute: 1998 No. 136

Sec. 1: Legislative Findings

The general assembly finds that net metering of small systems for self-generation of electricity is in the public interest in order to:

- (1) Encourage private investment in renewable energy resources;
- (2) Stimulate the economic growth of this state; and
- (3) Enhance the continued diversification of the energy resources used in this state.

Original Statute: 1998 No. 136

- Net metering systems must be renewable and use PV, wind, or fuel cell, or must use anaerobic digestion of waste produced substantially on the farm
- On-bill kWh credit for excess generation that reverts to utility each January 1
- Cap for individual system: 15 kW
- Cap for farm system: 100 kW
- PSB may simplify Sec. 248 process and waive criteria that are "not applicable"
- Cumulative capacity cap of 1.0 percent of utility's 1996 peak demand

Amendments

Seven times since 1998:

- ▶ 2000 No. 157, Sec. 17
- ▶ 2002 No. 145, Sec. 5
- ▶ 2006 No. 208, Sec. 12
- ▶ 2008 No. 92, Sec. 14
- ▶ 2010 No. 159, Sec. 1
- ▶ 2011 No. 47, Sec. 1
- ▶ 2012 No. 125, Secs. 1, 3, 4, 5

Topic 1: System Capacity

- ▶ 2000: Farm systems increase to 125 kW; PSB may allow up to five individual systems per year > 15 but \leq 100 kW
- ≥ 2002: Farm systems to 150 kW; up to 10 individual systems yearly > 15 but ≤ 100 kW
- 2006: PSB "shall expand the scope of the net metering program" and is to consider expanding the cap for individual systems
- 2008: Sets cap at 250 kW for individual, farm, and group systems; adds CHP systems using non-renewable fuels up to 20 kW
 - 2011: Sets cap at 500 kW, except nonrenewable CHP

Topic 2: Cumulative Capacity

- 2002: Cumulative capacity cap to be 1.0 percent of utility's peak demand in 1996 or most recent calendar year, whichever is greater
- 2006: PSB "may raise" the 1.0 percent cumulative capacity cap
- ▶ 2008: Cumulative cap moved to 2.0 percent
- ▶ 2011: Cumulative cap moved to 4.0 percent

Topic 3: Farm and Group Systems

- 2000: Farm system must be on a farm and use agricultural waste products from farming
- 2002: Allows farm system to offset multiple meters; includes specifics on billing and crediting for multiple meter farm systems and information farm system must provide utility
- 2008: Adds group net metering systems to farm system provisions; group system must be located on property of a group member and members must be on the same utility
- 2011: Converts farm systems to group systems; direct billing of system members

Topic 4: Credits for Excess Generation

- 2002: kWh credits for farm systems to remain on bill for 12 months before reverting to utility
- 2006: kWh credits for individual systems to remain on bill for 12 months before reversion
- 2011: Converts kWh credits to monetary credits, applicable to all charges on the bill
- 2012: States how credits for customers using nonstandard meters are to be calculated; when calculating credits, use highest block rate if the rate schedule has inclining block rates

Topic 5: Solar Net Metering Systems

- ▶ 2011: Adds registration process for solar systems of 5 kW or less; CPG is deemed issued if no objection within 10 days
- ▶ 2011: Establishes "solar adder," in effect crediting excess generation from solar systems at 20 cents/kWh
- 2012: Expands capacity of solar systems eligible for registration process to 10 kW

Other Topics

- ▶ 2006: Net metering system may employ any renewable resource as defined under the renewable energy chapter
- ▶ 2010: Adds a facility for the generation of electricity consumed primarily by the Military Dept.; allows capacity of this system to be \leq 2.2 MW; system does not count toward cumulative capacity cap

Net Metering 1998 v. 2013

| Year | System Capacity | Cumulative Capacity | Farm and Group Systems | Bill Credits | Solar |
|------|--|--|---|---|---|
| 1998 | 15 kW individual100 kW farm | 1.0 % of utility's 1996 peak demand | On farm that is source of waste | kWh credits that revert each Jan 1 | Same process and credits |
| 2013 | 500 kW individual or group 20 kW non-renewable CHP 2.2 MW military dept. | 4.0 % of utility's peak demand in 1996 or most recent year, whichever higher | Group replaces farm Multiple meters Same utility System on a member's premises Direct billing | Monetized credits Apply to whole bill Revert after one year Highest block of inclining block rates | Regis- tration for solar ≤ 10 kW Solar adder |

Net Metering Deployment "Snapshot" through 2013

- Total capacity since 1999: approximately 39.3 MW (submitted applications)
- 1045 applications in 2013, for about 14.3 MW
- 763 applications in 2012, for about 9.1 MW

Data on this page from Vt. Dept. of Public Service

| Utility/Statewide | Percent Peak |
|-------------------|--------------|
| Barton | 0.00 |
| BED | 3.2 |
| Enosburg | 0.98 |
| GMP | 3.75 |
| Hardwick | 4.96 |
| Jacksonville | 0.58 |
| Johnson | 0.00 |
| Lyndonville | 0.18 |
| Ludlow | 0.00 |
| Morrisville | 5.9 |
| Northfield | 1.12 |
| Orleans | 0.00 |
| Readsboro | 0.00 |
| Stowe | 1.28 |
| Swanton | 0.14 |
| VEC | 4.06 |
| WEC | 8.41 |
| Statewide | 3.62 |