

## SUMMARY OF STATE “NET METERING” PROGRAMS (as of January 2007)

| State       | Utilities   | Eligible Fuel Types  | Eligible Customers   | Limit on System Size   | Limit on Overall Enrollment   | Treatment of Net Excess Generation (NEG) <sup>(1)</sup>   | Enacted   | Citation / Reference   |
|-------------|---|--|--|--|---|---|---|--|
| Arizona     | IOUs and RECs (Net billing)                                     | Renewables & cogeneration  | All customer classes   | ≤ 100 kW (≤ 10 kW for AZ Public Service customers)                                       | None  | Monthly NEG purchased at avoided cost   | 1981  | AZ Corp. Comm. Decision No. 52345  |
|             | Tucson Electric Power Co.                                       | PV & wind  | Commercial, Residential  | ≤ 10 kW  | 500 kW in TEP territory   | Monthly NEG carried forward to next billing cycle; net excess at end of year granted to utility   | 2003  | <a href="#">TEP Pricing Plan PRS-101/102</a>   |
|             | Salt River Project  | PV   | Residential  | ≤ 10 kW  | None  | Purchased monthly by utility at avg. market price minus a price adjustment of \$0.00017/kWh   | 2004  | <a href="#">Salt River Project Residential Solar Buyback Service Rider</a>   |
| Arkansas    | All utilities   | Solar thermal, PV, wind, biomass, hydro, geothermal, fuel cells & microturbines using renewable fuels                    | All customer classes   | ≤ 25 kW (res); ≤ 100 kW (com)  | None  | NEG granted to the utility monthly  | 2001  | HB 2325 (enacted April 2001, effective Oct. 2001). <a href="#">AR PSC net metering rules</a>   |
| California  | All utilities; munis can permit net or co-metering              | PV, landfill gas, wind, solar thermal & anaerobic digestion  | All customer classes   | ≤ 1000 kW  | 2.5 % of a utility's peak demand (separate limit of 50 MW for SDG&E)                            | NEG granted to utility annually, also allows bi-directional time-of-use metering, and requires it for wind projects >50 kW  | 1995  | <a href="#">CA Public Utilities Code § 2827</a> , as amended 98, 00,01, 02, 05 and 06.   |
| Colorado    | All utilities subject to renewable energy standard requirements | All utilities: PV; solar thermal electric, wind, biomass, LFG, hydro, fuel cells<br><br>Ft. Collins, Gunnison: PV & wind | All utilities: All customer classes<br><br>Ft. Collins: Residential<br><br>Gunnison: Residential, Commercial | All utilities: ≤ 2 MW;<br><br>Ft. Collins, Gunnison: ≤ 10 kW;<br><br>Holy Cross: ≤ 25 kW | All utilities: none;<br><br>Ft. Collins: first 25 customers<br><br>Gunnison: first 50 customers | All utilities: NEG credited to following month; at end of annual period any unused credits are purchased by utility at the average hourly incremental cost of electricity over the prior 12 month period<br><br>Ft. Collins: NEG credited to following month; granted to utility at end of 12-month period<br><br>Gunnison: Purchased by utility at wholesale rate<br><br>Holy Cross: NEG reimbursed at avoided cost annually | All utilities: 2004<br><br>Ft. Collins: 2003;<br><br>Gunnison: 2000 | <a href="#">CO PUC Docket No. 05R-112E; Decision No. C05-1461. Fort Collins Elec.; Gunnison County Electric Assoc. Net Metering Program;</a> |
| Connecticut | IOUs  | Solar, wind, biomass, LFG, small hydro, ocean, fuel cells, and MSW   | Commercial and Residential (including multi-family residential of 2-4 units)                                 | Fossil tech ≤ 50 kW; Renewables ≤ 100 kW   | None  | Purchased by utility at spot market energy rate   | 1998; 2003  | <a href="#">C.G.S. 16-243h (Public Act 98-28); Public Act 03-135 (Section 3)</a>   |

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| Delaware             | All utilities  | Solar, wind, hydro, and "other renewables"  | Commercial, Residential  | ≤ 25 kW   | None  | Varies by Utility   | 1999   | <a href="#">26 Del. C. § 1014(d) (1999 HB10); DE Dept. of Adm Services Website</a>   |
| District of Columbia | All utilities  | Fuel cells, CHP, Microturbines, renewable resources (not defined)   | All customer classes   | ≤ 100 kW  | None  | Credited to customer's next bill  | 2000   | <a href="#">D.C. Code § 34-1518</a> (Final rules have not yet been issued)   |
| Florida              | New Smyrna Beach Utilities Commission                            | PV  | All customer classes   | ≤ 10 kW   | None  | Credited to following month   | 2000   | <a href="#">UCNSB Electric Load Management Provisions</a>  |
|                      | JEA (Jacksonville)   | PV and wind   | Residential  | ≤ 10 kW   | None  | Credited to following month   | 2003   | <a href="#">JEA Net Metering Policy</a>  |
| Georgia              | All utilities  | PV, wind, and fuel cells  | All customer classes   | ≤ 10 kW (residential); ≤ 100 kW (commercial)  | 0.2% of previous year's annual peak demand for each utility   | NEG credited to following month; at end of annual period any unused credits are granted to utility without compensation   | 2001   | <a href="#">O.C.G.A. 46-3-50 through 46-3-56 (SB 93)</a>   |
| Hawaii               | All utilities  | PV, wind, biomass & hydro   | Commercial, residential  | ≤ 50 kW   | 0.5% of each utility's peak demand  | NEG credited to following month; at end of annual period any unused credits are granted to utility without compensation   | 2001; Amended 2004, 2005                                     | <a href="#">HI state net metering website, HRS § 269-101 through § 269-111 (Act 272 of 2001 or HB 173), HB2048 HD1 SD1 (Act 99, Session Laws of Hawaii 2004)</a>   |
| Idaho                | IOUs (Avista Utilities; Idaho Power; Utah Power & Light Company) | Avista, Idaho Power: Solar thermal, PV, wind, biomass, hydro & fuel cells; UPLC: Solar thermal, PV, wind, biomass & hydro | Avista, Idaho Power: Commercial, residential, and agricultural; UPLC: commercial & residential | Avista: ≤ 25 kW; Idaho Power/UPLC: ≤ 25 kW (res/small com), ≤ 100 kW (large com/ag) | Avista: 0.1% of Avista's 1996 peak demand or 1.52MW; Idaho Power: 2.9 MW, or 0.1% of peak demand in 2000; UPLC: 0.1% of 2002 peak demand (714 kW) | Avista: Credited to the following month, then granted to the utility at end of annual period with no compensation; Idaho Power/UPLC: Purchased monthly at retail rate (res/small com); Idaho Power: Paid at 85% of Mid-Columbia rates (large com/ag); UPLC: Paid at 85% of Dow Jones index price for non-firm energy (large com/ag) | 1980, 1997<br>Avista: 1999;<br>ID Power: 2002;<br>UPLC: 2003 | ID PUC Orders No. 16025 (1980); <a href="#">26750 (1997)</a> ; <a href="#">Avista Utilities Schedule 62</a> ; <a href="#">ID Power Schedule</a> ; <a href="#">UPLC Electric Service Schedule No. 135</a> |
| Illinois             | Com Ed only  | PV and wind   | All ComEd retail customers only  | < 40 kW   | 0.1% of annual peak demand  | Purchased at avoided cost, plus an annual incentive payment   | 2000   | <a href="#">ComEd Special Billing Experiment</a> (effective 4/1/00)  |
| Indiana              | IOUs only  | PV, wind, small hydro   | Residential and K-12 schools; other customers at utility discretion                            | ≤ 10 kW   | 0.1% of summer peak demand  | Credited to following month   | 2004   | <a href="#">170 IN Admin Code § 4-4.1-7</a>  |

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|---------------|--|---|--|---|--|---|------------------------|---|
| Iowa          | IOUs only  | PV, wind, biomass, hydro & MSW  | All customer classes   | No limit (special waivers allow MidAmerican Energy and Interstate Power and Light to limit systems to 500 kW) | None   | Purchased at avoided cost; MidAmerican Energy and Interstate Power and Light granted special waiver to carry forward NEG for use in future months | 1983; 1991             | <a href="#">IA Admin Code Section 199 § 15.11(5)</a>  |
| Kentucky      | IOUS and coops (Pilot programs also in place for Louisville G&E, KY Utilities)                     | PV (wind & hydro included in pilot programs only)                               | All customer classes   | ≤ 15 kW   | 0.1% of a supplier's peak load during the previous year        | Credited to following month, with no expiration   | 2002; 2004             | <a href="#">KY PSC Case. 2001-00303; 2001-00304 SB 247 (2004)</a><br>New 2004 law takes affect in 10/04. Pilot programs will remain in place until they expire. |
| Louisiana     | All utilities  | PV, Wind, Biomass, Hydroelectric geothermal, fuel cells, micro turbines         | All customer classes   | ≤ 25 kW for res; ≤ 100 kW for comm. & ag.   | None   | Credited to following month, with no expiration   | 2003                   | <a href="#">HB 789 (2003)</a> ; PSC Docket No. R-27558.   |
| Maine         | All utilities  | Renewables, fuel cells, MSW, cogen, tidal energy                                | All customer classes   | ≤ 100 kW  | None   | NEG credited to following month; at end of annual period any unused credits are granted to utility without compensation                           | 1987; 1998             | <a href="#">ME PUC 65-407 § 313 (1998)</a> ; <a href="#">ME PUC Docket No. 98-621</a>   |
| Maryland      | All utilities  | PV, wind, biomass, and anaerobic digestion                                      | Residential, Commercial & schools, local, state and federal govt. (Systems may be owned or leased) | ≤ 200 kW, up to 500 kW with PSC approval  | 34.7 MW or 0.2% of 1998 peak demand                            | NEG carried over to the customer's next bill until all credit is used or for a maximum of 12 months, whichever is sooner                          | 1997; 2004; 2005; 2006 | <a href="#">MD Code: PUC § 7-306 (HB 869, 1997)</a><br><a href="#">HB 1269 (2004)</a><br><a href="#">HB 1331 (2005)</a><br><a href="#">SB 167 (2006)</a>        |
| Massachusetts | All utilities  | Renewables, fuel cells, MSW, cogeneration                                       | All customer classes   | ≤ 60 kW   | None   | Credited to customer's next bill at average monthly market rate   | 1982; 1997             | <a href="#">DPU/DTE 97-111; M.G. L. ch. 165, Sec. 1(G)(g) (Ch. 164 of the Acts of 1997)</a>   |
| Michigan      | Voluntary for all utilities. (11 offer program, accounting for >90% of total state electric sales) | Solar thermal electric, PV, LFG, wind, biomass, hydro, geothermal electric, MSW | All customer classes   | ≤ 30 kW; utilities can voluntarily increase limit to ≤ 150 kW   | 0.1% of a utility's peak load or 100 kW (whichever is greater) | NEG credited to following month; at end of annual period any unused credits are granted to utility without compensation                           | 2005                   | <a href="#">PSC Order, Case No. U-14346</a>   |
| Minnesota     | All utilities  | PV, wind, biomass, hydro, MSW & cogeneration                                    | All customer classes   | < 40 kW   | None   | Monthly NEG purchased at "average retail utility energy rate"   | 1983                   | <a href="#">Minn. Stat. § 261B.164(3)</a><br><a href="#">Minn. Rule 7835.3300</a>   |

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|---------------|--|--|---|--|---|--|--------------------------------------|---|
| Montana       | IOUs; Most of Montana Electric Coop's 26 members | IOUs: PV, wind & hydro;<br>MECA: PV, wind, geothermal, fuel cells & small hydro                        | IOUs: All customer classes;<br>MECA: Commercial & Residential | IOUs: ≤ 50 kW;<br>MECA: ≤ 10 kW  | IOUs/MECA: None   | IOUs/MECA: NEG credited to following month; at end of annual period any unused credits are granted to utility without compensation   | IOUs: 1999;<br>MECA: 2001            | IOUs: <a href="#">MCA 69-8-601</a> S.B. 409;<br>MECA: <a href="#">Interconnection of Small Customer Generation Facilities - Model Policy</a>  |
| Nevada        | IOU's  | Solar thermal, PV, wind, biomass, hydro & geothermal   | All customer classes  | ≤ 30 kW;<br>although rules allow systems up to 150 kW, unfavorable requirements can be imposed on systems over 30 kW | 1% of utility's peak capacity   | For systems up to 30 kW, NEG is carried over to the next billing period with no deadline for expiration  | 1997;<br>2001;<br>2003;<br>2005      | <a href="#">Nev. Rev. S. Ch. 704.766-775</a> ;<br><a href="#">AB 429 (June 2003)</a> ;<br><a href="#">AB 236 (June 2005)</a>  |
| New Hampshire | All utilities                                    | PV, wind & hydro   | All customer classes  | ≤ 25 kW  | 0.05% of annual peak  | NEG carried over to following month  | 1998                                 | <a href="#">34 NH RSA 362-A:1 &amp; 9</a> ;<br><a href="#">NH Code of Admin. Rules ch. PUC 900</a>  |
| New Jersey    | All utilities                                    | Solar, wind, fuel cells, geothermal, ocean, and methane from landfills or sustainably produced biomass | Residential & Commercial                                      | ≤ 2 MW   | None  | NEG credited to customer at the full retail rate; at the end of a twelve-month period, the utility must compensate the customer at the avoided cost rate   | 1999,<br>amended<br>2004             | <a href="#">NJ Permanent Stat. § 48:3-87 Sec. 38(e)</a> ("Electric Discount & Energy Competition Act", <a href="#">Bill A16</a> ); <a href="#">Subch.9, NJAC 14:4-9 (2001)</a> ; <a href="#">N.J.A.C. 14:4-9, Net Metering and Interconnection Standards for Class I Renewable Energy Systems</a> |
| New Mexico    | IOUs & Co-ops                                    | Renewables, fuel cells, MSW, cogeneration & micro turbines   | All customer classes  | ≤ 80 MW  | None  | At utility's option, for systems under 10 kW customer is credited on the next bill for (1) purchase of NEG at utility's avoided cost; or (2) kilowatt-hour credit for NEG that carries over from month to month. For systems > 10 kW NEG is reconciled at the end of each billing cycle. | 1998,<br>amended<br>1999 and<br>2007 | <a href="#">NMAC Title 17, 9.571</a> ;<br>1998 NM PRC Order 2847  |
| New York      | All utilities                                    | PV (for res. <u>only</u> ), Biogas (for farms <u>only</u> ), wind (for res. and farms)                 | Residential & Agricultural                                    | ≤ 10 kW (PV)<br>≤ 25 kW (res. wind)<br>≤ 125 kW (farm wind)<br>≤ 400 kW (biogas)                                     | 0.1% of 1996 demand per IOU (PV); 0.4% of 1996 demand per IOU (farm systems); .2% of 2003 IOU demand for wind | NEG credited to following month at retail rate for PV and biomass, at avoided-cost rate for wind; at end of annual period any unused credits are purchased at avoided cost   | 1997,<br>amended<br>2002 and<br>2004 | <a href="#">NY Public Service Law § 66-j S.B. 6592</a> ; <a href="#">S.B 4890-E of 2003</a>   |

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| North Carolina | IOUs only   | PV, wind, LFG, biomass, micro hydro  | All customer classes                                       | ≤ 20 kW for res; ≤ 100 kW for non res.  | 0.2% of the each utility's previous year in-state peak retail load  | NEG credited to following month, but will be reset to once annually at the beginning of the summer season.   | 2005, amended 2006              | <a href="#">NC Utilities Commission, Order Adopting Net Metering, Docket No. E-100, Sub 83</a> ; <a href="#">NC Utilities Commission, Order Modifying Net Metering Tariff and Riders, Docket No. E-100, Sub 83</a> |
| North Dakota   | IOUs only   | Renewables, MSW & cogeneration   | All customer classes                                       | ≤ 100 kW  | None  | Monthly NEG purchased at avoided cost  | 1991                            | <a href="#">ND Admin. Code § 69-09-07-09</a>   |
| Ohio           | IOUs only; Bowling Green Municipal Utilities (BGMU) | IOUs: Solar thermal, PV, landfill gas, wind, biomass, hydro, fuel cells & micro turbines; BGMU: PV, wind, hydro & fuel cells                               | IOUs: All customer classes; BGMU: Commercial & Residential | IOUs: ≤ 100 kW (micro turbines), no limit on other sources; BGMU: ≤ 25 kW                     | IOUs: 1.0% of peak demand for each retail electric provider; BGMU: Not specified  | IOUs: NEG purchased at unbundled generation rate, appears as credit on following bill; BGMU: Not specified   | 1999                            | IOUs: <a href="#">OH Rev. Code § 4928.67</a> ; <a href="#">OAC 4901:1-10-28</a> ; <a href="#">Consumer Information</a><br>BGMU: <a href="#">Electric Distribution Division</a>                                     |
| Oklahoma       | All utilities                                       | Renewables, MSW & cogeneration   | All customer classes                                       | ≤ 100 kW <u>or</u> annual output ≤ 25,000 kWh, whichever is smaller                           | None  | Monthly NEG is granted to utility or credited to next bill, depending on utility   | 1988                            | <a href="#">OK Corp. Comm. Rules 165:35-29-1 through 165:35-2 &amp; 165:40-1 through 165:40:11</a>   |
| Oregon         | All utilities; City of Ashland                      | Solar, wind, fuel cell, hydro, LFG, waste, and biomass<br>Ashland: PV & wind   | All customer classes;<br>Ashland: Commercial & residential | ≤ 25 kW, although the PUC may increase this limit;<br>Ashland: None                           | No less than 0.5% of utility's historic single-hour peak load; beyond 0.5% eligibility can be limited by regulatory authority;<br>Ashland: None | NEG purchased at avoided cost or credited to following month; at end of annual period unused credits shall be granted to low-income assistance programs, credited to customer, or "dedicated to other use" as determined by regulatory authority;<br>Ashland: ≤ 1,000 kWh/month at full retail price | 1999 and 2005;<br>Ashland: 1996 | OR: <a href="#">OR Rev. Stat. 757.300</a> (HB3219 of 1999); <a href="#">SB 84</a>  |
| Pennsylvania   | IOUs  | Solar thermal, PV, wind, biomass, hydro & renewable fuel cells, municipal solid waste, combined heat & power, waste coal, and other distributed generation | All customer classes                                       | ≤ 50 kW for res.; ≤ 1 MW for nonres.; 2 MW for microgrid systems or available for emergencies | None  | NEG purchased by utility monthly at avoided-cost rate  | 1998; 2006                      | <a href="#">52 PA Code § 57.34(b)(4)</a> ; PUC final rules for AEPS customer generators on <a href="#">Net Metering</a> , Dockets No. L-00050174 & No. M-00051865 (2006)   |
| Rhode Island   | Narragansett Electric                               | Renewables, fuel cells, MSW & cogeneration   | All customer classes                                       | ≤ 25 kW   | 1 MW in Narragansett territory  | NEG credited to following month; at end of annual period any unused credits are granted to utility without compensation  | 1998                            | <a href="#">RI PUC Order Docket No. 2710 (1998)</a>  |

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| Texas      | PTB REPs, TDUs & integrated IOUs that have not unbundled in accordance with PURA § 39.051 (Regulated utilities); Austin Energy (AE); San Antonio City Public Service (SA) | Regulated utilities: Renewables, LFG, hydro, fuel cells, microturbines; AE: Solar, LFG, wind, biomass, hydro, geothermal, MSW SA: PV, landfill gas, wind, biomass, hydro, geothermal, tidal or wave energy | Regulated utilities: All customer classes; AE/SA: Commercial & residential | Regulated utilities: ≤ 50 kW; AE: 20 kW; SA: ≤ 25 kW   | Regulated utilities/SA: None; AE: None   | Regulated utilities: Monthly NEG purchased at avoided cost; AE: Monthly NEG credited to the next bill at the current fuel charge rate, or if the customer participates in the GreenChoice it will be credited at the Green Power Charge; SA: 1.65 cents per kWh (Oct-May) & 2.02 cents per kWh (Jun-Sep) | Regulated utilities: 1986; AE: 2004 SA: 2002  | Regulated utilities: <a href="#">PUC Substantive Rule § 25.242(h)(4)</a> ; AE: <a href="#">Ordinance No. 030908-04 - Distributed Generation from Renewable Sources Rider</a> ; SA: <a href="#">City of San Antonio Public Service Distributed Generation</a> |
| Utah       | All IOUs and RECs   | Solar thermal, PV, wind, hydro & fuel cells  | All customer classes   | ≤ 25 kW  | 0.1% of 2001 peak demand   | NEG credited to following month; at end of annual period any unused credits are granted to utility without compensation  | 2002  | <a href="#">UT Code 54-15-101 to 54-15-106</a> ; <a href="#">HB 7 of 2002</a><br>Utah Energy Office: <a href="#">Net Metering</a>  |
| Vermont    | All utilities   | Renewable energy. Biogas, and anaerobic digestion of agricultural products, byproducts and wastes are explicitly included  | Residential, commercial, and agricultural                                  | ≤ 150 kW for farms <sup>(2)</sup> ; ≤ 15 kW for others | 1% of 1996 peak demand or peak demand during most recent calendar yr., whichever is greater  | NEG credited to customer, and must be used within 12 months, or it will be granted to the utility with no compensation   | 1998, amended 1999, 2002; amended 2006        | <a href="#">VT Stat. Ann. § 219a</a> ; <a href="#">H. 859</a> (2006)   |
| Virginia   | All utilities   | Solar thermal, PV, wind, hydro, sustainable biomass, energy from waste, wave motion, tides & geothermal power  | Residential and commercial   | ≤ 10 kW (residential); ≤ 500 kW (commercial)           | 0.1% of annual peak demand   | NEG is credited to following month; at end of annual period, excess generation is carried over to the next annual period (power purchase agreement is allowed).  | 1999; 2000; 2004; amended 2006                | <a href="#">VA Code Ann. § 56-594a</a> ; <a href="#">20 VAC 5-315-10 through 5-315-90</a> SB 651 (2004); <a href="#">HB 1541</a> (2006)  |
| Washington | All utilities; Grays Harbor PUD   | Solar, wind, hydro, biogas from animal waste, fuel cells, and CHP  | All customer classes   | ≤ 100 kW   | All utilities: 0.25% of 1996 peak (increases to 0.5% on 1/1/14), at least half for renewables; Gray Harbor PUD: 1% of 1996 peak load | NEG credited to following month at utility retail rate, at end of annual period any unused credits are granted to utility without compensation; PUD: purchased by the utility at year-end for 50% of the retail rate   | 1998, amended 2000; amended 2006              | WA: <a href="#">WA Rev. Code § 80.60</a> ; <a href="#">HB 2773</a> ; PUD: <a href="#">Net Metering</a> ; <a href="#">HB 2352 (2006)</a>  |
| Wisconsin  | IOUs only; We Energies Experimental Program   | Renewables, MSW & cogeneration; We Energies: wind  | All customer classes   | ≤ 20 kW; (We Energies Experimental Program: ≤ 100 kW)  | None; (We Energies Experimental Program: up to 25 systems for 10 years)  | Monthly NEG purchased at retail rate for renewables, avoided cost for non-renewables   | 1992; 2006 (We Energies Experimental Program) | <a href="#">Rate Schedules: PSC of WI Order 6690-UR-107</a> ; We Energies experimental program: <a href="#">PSC Order 5-UR-102, Ref #48654</a>   |

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| Wyoming | All utilities | PV, wind, biomass & hydro | All customer classes | ≤ 25 kW              | None                        | NEG credited to following month; at end of annual period any unused credits are purchased by utility at avoided cost | 2001; 2003 | <a href="#">WY Stat. § 37-16-101 through § 37-16-104; House Bill 195 (2001); Senate File 106 (2003)</a> |

<sup>(1)</sup>In all cases, energy generation is netted against energy consumption on an equal basis, down to zero net energy use during the designated period. Treatment of 'net excess generation' is relevant only when total generation exceeds total consumption over the entire billing period, i.e. the customer has more than offset his/her total electricity use and has a negative meter reading.

<sup>(2)</sup>The Vermont law was amended to allow Vermont Public Services Board to permit net metering for up to 10 non-farm systems per year that produce more than 15 kilowatts (AC) capacity, but less than 150 kilowatts of capacity. The law was also amended to allow "group net metering," such that farm systems may credit on-site generation against all meters designated to the farm system.

Sources: UCS 2006, Tom Starrs, US DOE ([www.eren.doe.gov/greenpower/netmetering/nmtable.shtml](http://www.eren.doe.gov/greenpower/netmetering/nmtable.shtml)), and Database of State Incentives for Renewable Energy ([www.dsireusa.org](http://www.dsireusa.org)).