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## Solar for Schools Annual Legislative Report

Minnesota Statutes, section 216C.375, subd. 11

January 15, 2026

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## Report Prepared By

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## Introduction

Pursuant to Minnesota Statutes, section 216C.375, subd. 11, beginning January 15, 2022, and each year thereafter until January 15, 2035, the Minnesota Department of Commerce (Commerce) must report to the chairs and ranking minority members of the legislative committees with jurisdiction over energy regarding:

1. grants and amounts awarded to schools under this section during the previous year;
2. the amount of electricity generated by solar energy generating systems awarded a grant; and
3. the impact on school electricity expenses.<sup>1</sup>

## Background

The Solar for Schools (SFS) grant program established under Minnesota Statutes, section 216C.375 provides financial assistance to enable eligible schools to install and operate solar energy systems that can be used as teaching tools and be integrated into the school curriculum.<sup>2</sup> SFS is funded through General Fund (GF) and Renewable Development Account (RDA) appropriations, outlined in *Table 1*.

In total, \$48,932,000 has been appropriated to the program. Appropriations in FY22-23 were passed as part of the 2021 Minnesota Special Session.<sup>3</sup> Appropriations for FY24 were passed as part of the 2023 Minnesota Legislative Session.<sup>4</sup>

*Table 1 Solar for Schools Program Appropriations*

|                              | MN State (GF) | K-12 (GF)    | Colleges (RDA) | K-12 (RDA)   | Total               |
|------------------------------|---------------|--------------|----------------|--------------|---------------------|
| <b>FY22-23 Appropriation</b> | \$1,242,000   | \$8,000,000  | \$1,242,000    | \$8,000,000  | \$18,484,000        |
| <b>FY24 Appropriation</b>    | \$1,138,000   | \$15,000,000 | \$0            | \$14,310,000 | \$30,448,000        |
| <b>Program Total</b>         |               |              |                |              | <b>\$48,932,000</b> |

## 2025 Program Year Summary

Commerce held two Request for Proposal (RFP) funding rounds, detailed in *Table 2*. This section includes high-level metrics of the Commerce SFS program including the number of grants, grant values, total remaining funds, a cumulative summary of previous years' projects, and other project information.

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<sup>1</sup> The original statute required reporting on (a) financial assistance, including amounts per award, provided to schools under section during the previous year; and (b) any remaining balances available under this section but the reporting requirements were amended by the enactment of [Laws of Minnesota 2023, Chapter 60, article 12, section 36](#).

<sup>2</sup> The 2023 Minnesota Legislative Session resulted in significant program updates and improvements. See [Law of Minnesota 2023, Chapter 60, Article 12, Section 36 and Section 69](#) for details.

<sup>3</sup> [Laws of Minnesota 2021, 1st Spec. Sess. Chapter 4, Article 1, Section 2, Subd. 8\(c\)-\(d\), Article 2, Section 3, Subd 6, and Article 8, Section 24, Subd. 5\(a\)](#)

<sup>4</sup> [Law of Minnesota 2023, Chapter 60, Article 10, Section 2, Subd 2\(c\) and \(e\) and Article 11, Section 2, Subd. 12](#)

Table 2 SFS 2025 Funding Round Dates

| Funding Round | Readiness Assessment     | Full Grant Application |
|---------------|--------------------------|------------------------|
| Round 1       | January 10 – February 10 | Due May 30             |
| Round 2       | July 1 – July 31         | Due by December 8      |

Independent, Special, and Cooperative School Districts, as well as Tribal Contract schools and Minnesota state colleges and universities that are under the jurisdiction of the Board of Trustees were eligible to apply for grants throughout the 2025 program year. Grant awards covered up to 40-70% of the cost to purchase and install a solar energy system. The various 2025 grant levels are detailed in Table 3.

Table 3 Maximum Allowable Grant Award Levels

| School Type  | System Size (kW <sub>dc</sub> ) | Grant Value (% System Cost) | Greater Minnesota Grant Cap (\$) | Inside Xcel Grant Cap (\$) |
|--|---------------------------------|-----------------------------|----------------------------------|----------------------------|
| <b>ANTC/APU<sup>5</sup> ≤ \$5,000</b>  | ≤ 50                            | 70%                         | \$84,000                         | \$84,000                   |
|  | > 50 and ≤ 125                  |                             | \$175,000                        | \$175,000                  |
|  | > 125 and ≤ 625                 |                             | \$500,000                        | \$675,000                  |
|  | > 625 and ≤ 1250                |                             | \$500,000                        | \$675,000                  |
| <b>ANTC/APU<br/>&gt;\$5,000 &amp; ≤ \$9,250<br/>Or<br/>Tribal Contract<br/>Schools</b> | ≤ 50                            | 60%                         | \$72,000                         | \$72,000                   |
|  | > 50 and ≤ 125                  |                             | \$150,000                        | \$150,000                  |
|  | > 125 and ≤ 625                 |                             | \$500,000                        | \$600,000                  |
|  | > 625 and ≤ 1250                |                             | \$500,000                        | \$675,000                  |
| <b>ANTC/APU<br/>&gt;\$9,250 &amp; ≤ \$17,750<br/>Or<br/>Minn. State</b>                | ≤ 50                            | 50%                         | \$60,000                         | \$60,000                   |
|  | > 50 and ≤ 125                  |                             | \$125,000                        | \$125,000                  |
|  | > 125 and ≤ 625                 |                             | \$500,000                        | \$500,000                  |
|  | > 625 and ≤ 1250                |                             | \$500,000                        | \$675,000                  |
| <b>ANTC/APU<br/>&gt;\$17,750<br/>Or<br/>Cooperative Districts</b>                      | ≤ 50                            | 40%                         | \$48,000                         | \$48,000                   |
|  | > 50 and ≤ 125                  |                             | \$100,000                        | \$100,000                  |
|  | > 125 and ≤ 625                 |                             | \$400,000                        | \$400,000                  |
|  | > 625 and ≤ 1250                |                             | \$500,000                        | \$600,000                  |

As of December 2025, three schools that submitted full applications in the first funding round (R1) of 2025 have executed grant contracts with Commerce, representing an installed solar capacity just over 362kW<sub>dc</sub>. An additional six schools have been invited to submit full applications as part of the second funding round (R2) of

<sup>5</sup> For K-12 schools, the maximum allowable grant is determined by the [Adjusted Net Tax Capacity](#) (ANTC) divided by the [Adjusted Pupil Unit](#) (APU)

2025, representing an estimated installed solar capacity of nearly 1.2MW<sub>dc</sub>. The 2025 R1 grantees along with a combined summary of the 2025 R2 applicants are detailed in *Table 4*. A full list of program grantees and public project details is provided in *Attachment 1: Comprehensive List of Solar for Schools Grantees*.

*Table 4 2025 Grantees as of December 2025*

| SFS ID  | District Name                    | Install Location            | Grant Award        | Size (kW <sub>dc</sub> ) |
|---|----------------------------------|-----------------------------|--------------------|--------------------------|
| SFS24-6010  | Kingsland Public School District | Kingsland K12               | \$183,198          | 204.00                   |
| SFS24-6016  | Duluth Public Schools            | Lincoln Park Middle         | \$125,000          | 100.44                   |
| SFS25-7006  | Red Lake Schools                 | Red Lake Elementary Complex | \$126,791          | 57.60                    |
| Combined Potential for 2025 R2 Applicants Invited to Submit Full Applications |                                  |                             | \$1,335,441        | 1,149.92                 |
| <b>Total</b>  |                                  |                             | <b>\$1,770,430</b> | <b>1,511.96</b>          |

The total number of projects this year is down from previous cycles. Through conversations with stakeholders throughout the 2025 Program Year, including developers and school districts, the following market factors have been identified as likely having impacted overall reduction in program demand and applications:

- Low Hanging Fruit: As many early adopters have likely already taken advantage of the SFS funding, increased outreach and technical assistance will be necessary for the next wave of adopters. Planning is underway to increase outreach efforts to these schools.
- Funds Outside Xcel Running Low: Schools within Xcel territory have, throughout the program, submitted fewer grant applications. This may be because most solar schools pre-SFS were within Xcel territory, before the program launched in Xcel territory. In addition, more time and effort are necessary to identify schools within a non-congested interconnection zone within Xcel compared to other Greater Minnesota utilities. Grant funds for schools in Greater Minnesota are anticipated to be fully allocated during the 2026 program year, incentivizing developers to put in the extra time and effort necessary to identify optimal schools within Xcel territory.
- Solar on Public Buildings: Modeled after SFS, Solar on Public Buildings (SPB) launched in April 2024 awarding grants to public buildings in Xcel territory. With the sunset of the solar ITC imminent, in July 2025, eligibility was expanded to Greater Minnesota alongside \$14.5 million in additional grant funds and the percentage of the system cost covered by the grant increased significantly. As there had been no prior program available to public buildings in Greater Minnesota, SPB has seen significant interest receiving over 200 applications. Developers have prioritized outreach to this largely untapped market to secure contracts prior to the end of 2025 and thus meet solar ITC eligibility under 2025 rules.
- Market Uncertainty and Volatility: Throughout the 2025 program year, several schools have withdrawn applications (or never initiated an application at all) due to overall market uncertainty and concerns surrounding availability of the federal solar ITC, with some also expressing concern about the availability of the SFS funds, despite it being a fully state-funded program. Moving forward, these funds will provide essential stability to support school solar adoption.

# Grantee Annual System Reporting

## Solar\*Rewards for Schools (S\*RFS)

Xcel submitted their annual compliance filing December 1, 2025, reporting on system annual production and production incentive payments for the 2024 calendar year. Of the nine projects that had been reported on in the 2024 SFS Annual Report, one received permission to operate (PTO) in late 2022, six additional throughout 2023, and one in 2024. The ninth, and final outstanding S\*RFS project, withdrew its application in 2025. The cumulative, and final, solar capacity of the eight S\*RFS projects is 2.05MW<sub>dc</sub>.

In total, two S\*RFS projects withdrew their applications after incentives had been allocated to the projects, a total amount of \$213,769.78. See the *Grant Budget Reservations* section for further discussion on these withdrawn project funds.

Up-front incentives valued at \$1,506,914 have been paid to eight grantees. There remain no allocated up-front incentives yet to be paid. Through 2024, a combined \$101,767 PBI has been paid out of the cumulative \$952,719.02 10-year allocation. *Table 5* summarizes expected versus actual production through 2024 for systems reporting full calendar year data. On average, each project has produced 4.3% less than the expected calculated production. A *Table 5* summarizes this information collectively by calendar year.

Table 5 Production Summaries for S\*RFS Projects Reporting Complete Calendar Year Data

| Calendar Year                         | # Project Years Reported | Est. Production (kWh) | Actual Production (kWh) | Variance (%) |
|---------------------------------------|--------------------------|-----------------------|-------------------------|--------------|
| 2023                                  | 1                        | NON-PUBLIC            | NON-PUBLIC              | -16.15%      |
| 2024                                  | 7                        | NON-PUBLIC            | NON-PUBLIC              | -2.65%       |
| Average Project Variance <sup>6</sup> |                          |                       |                         | -4.34%       |

## Solar for Schools

Of the 162 combined SFS and S\*RFS projects to date, 148 are SFS grantees with fully executed, or since closed, grant contracts with Commerce. The cumulative solar capacity of these 148 projects is 16.26MW<sub>dc</sub>. An additional six schools have been invited to submit full applications as part of the 2025 R2 funding round. The final eight projects represent the S\*RFS projects discussed in the *Solar\*Rewards for Schools* section.

SFS grantees are obligated as part of their grant contract to annually report system production and electric usage information to Commerce by March 31 for the prior calendar year. *Table 6* summarizes the expected versus actual system production through 2024 for systems reporting full calendar year production data. On average, each project has produced 1.55% more than the expected calculated production.

<sup>6</sup> Average Project Variance calculated by averaging the cumulative individual project variances across all program years to establish the accuracy on a project-level basis. This contrasts with summing the estimated and actual production across all projects and years to calculate an overall program variance.

Table 6 Production Summaries for SFS Projects Reporting Complete Calendar Year Data

| Calendar Year            | # Project Years Reported | Est. Production (kWh) | Actual Production (kWh) | Variance (%) |
|--------------------------|--------------------------|-----------------------|-------------------------|--------------|
| 2023                     | 5                        | 327,894               | 317,288                 | -16.48%      |
| 2024                     | 37                       | 2,417,944             | 2,469,623               | 2.21%        |
| Average Project Variance |                          |                       |                         | 1.55%        |

## Grant Budget Reservations

On *Table 7*, it details the total, allocated, and remaining available program grant funds. Allocated funds encompasses the 148 SFS schools with fully executed or closed SFS contracts, the eight S\*RFS grantees, and the six schools invited to submit full applications in 2025 R2 with funds tentatively reserved pending full applications. There has been a noticeable decline in program demand through the 2025 program year which has resulted in a greater amount of remaining program funds than previously had been anticipated. However, Commerce remains optimistic regarding the program's ability to utilize all remaining program funds by 2032.<sup>7</sup> Relevant market and other factors impacting this decline have been outlined in the *2025 Program Year Summary* section.

Table 7 SFS Program Unallocated Grant Funds

|                     | Total Grant Budget | Grant Reservations | 2025 Round 2 | Remaining    |
|---------------------|--------------------|--------------------|--------------|--------------|
| <b>K-12 GF</b>      | \$21,012,000       | \$16,148,588       | \$926,791    | \$3,936,621  |
| <b>K-12 RDA</b>     | \$20,514,324       | \$7,255,721        | \$408,650    | \$12,849,953 |
| <b>MN State GF</b>  | \$2,142,000        | \$135,111          | -            | \$2,006,889  |
| <b>MN State RDA</b> | \$1,117,800        | -                  | -            | \$1,117,800  |

Except for the 'K-12 RDA Total Grant Budget,' the 'Total Grant Budget' for each category in *Table 7* is calculated using the sum of appropriated funds less admin costs. The \$20,514,324 'K-12 RDA Total Grant Budget' value represents the sum of (1) unallocated S\*RFS funds transferred to Commerce upon the rescission of S\*RFS (\$5,175,691), (2) the cumulative allocated funds for the eight remaining (and final) S\*RFS projects (\$2,459,633),<sup>8</sup> and (3) the added appropriations from the 2023 Minnesota Legislative Session (\$14,310,000) less 10% for

<sup>7</sup> Pursuant to Minn. Stat. § 216C.375, subd. 10, no SFS application may be submitted after December 31, 2032. But funds appropriated to the SFS account do not cancel to the general fund until June 30, 2034. See Minn. Stat. § 216C.375, subd. 3.

<sup>8</sup> Commerce notes that the 2024 Solar for Schools Annual Report incorrectly listed the cumulative allocated funds for the nine remaining S\*RFS projects (at that time) as \$2,106,334 due to a misunderstanding that the S\*RFS upfront incentive was based on DC system size when it was in fact based on AC system size, in addition to a reporting error on one S\*RFS project's system size. Both have since been corrected. The accurate cumulative allocated funds for those nine S\*RFS projects were \$2,584,713.61.



administrative. Roughly \$365,000 of the original \$8,000,000 appropriation to S\*RFS has yet to be transferred to Commerce.

## Program Impact and Outlook

There are roughly 360 Independent, Special, and Cooperative school districts in Minnesota, comprised of an estimated 1500 individual school buildings, excluding any duplicate addresses, administrative buildings, and virtual classrooms.<sup>9</sup> Prior to the SFS program, Minnesota had around 150 on-site solar photovoltaic (PV) systems across 57 school districts with a total installed capacity of around 13MW<sub>dc</sub>.

To date, SFS has resulted in 162 additional on-site solar PV systems that have already been installed, or are on track to be installed, across 80 school districts. Of those 80, an estimated 65 are districts that previously had no on-site solar, bringing the state's district total to around 122 of the state's 364 districts<sup>10</sup>. This represents a combined grant award total of \$22.9 million. These projects, combined, are anticipated to produce over 19 million kWh of electricity annually, delivering over \$1.6 million in electricity costs savings annually, and saving schools over \$60 million in electric costs over the systems' 25-year lifetimes. These numbers are broken down by grantee application year in *Table 8*.

Of note, several grant projects are not represented in the cumulative grant values, annual production, and electric savings summed in *Table 8* data, as evident in the differences across the 'Grants Awarded' versus 'Grants Reporting' fields. Footnotes to the pertinent values explain these differences.

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<sup>9</sup> [Minnesota Department of Education Schools and Districts Database](#)

<sup>10</sup> The total number of eligible districts occasionally fluctuates due to changes in cooperative districts operating in the state.

Table 8 Cumulative Impact of Grants by Grantee Application Year

| Year         | Grants Awarded | Grants Reporting        | Cumulative Grant Values      | Est. Annual Production (kWh) | Est. Year 1 Electric Savings | Est. Lifetime (25Y) Electric Savings |
|--------------|----------------|-------------------------|------------------------------|------------------------------|------------------------------|--------------------------------------|
| 2022         | 59             | 53                      | \$5,176,993.00 <sup>11</sup> | 3,329,280                    | \$249,696.00                 | \$8,087,086.00                       |
| 2023         | 40             | 38                      | \$3,593,479.00               | 2,485,386                    | \$182,204.00                 | \$5,807,374.00                       |
| 2024         | 54             | 54 <sup>12</sup>        | \$11,874,327.20              | 12,931,362                   | \$1,150,171.23               | \$45,201,149.00                      |
| 2025         | 9              | 3 <sup>13</sup>         | \$889,500.00                 | 452,564                      | \$35,539.02                  | \$1,180,490.00                       |
| <b>TOTAL</b> | <b>162</b>     | <b>148<sup>14</sup></b> | <b>\$21,534,299.20</b>       | <b>19,198,592</b>            | <b>\$1,617,610.25</b>        | <b>\$60,276,099.00</b>               |

Considering the remaining program funds in each of the four program funding accounts in combination with their respective average system size and anticipated grant award in subsequent program year, SFS is estimated to result in another 90 or more on-site solar school projects, bringing the program total to 250 solar installations and the state total to 400.

In total, once the program funding is fully expended, SFS funded projects are likely to increase the state's solar school capacity by over 32MW<sub>dc</sub>, more than tripling its pre-SFS solar school capacity to 45MW<sub>dc</sub>. Once installed, these 400 solar schools will result in Minnesota having solarized over 30% of eligible school buildings, triple the current national average.<sup>15</sup>

<sup>11</sup> The 2022 'Cumulative Grant Value' of \$5,177,168.00 (as cited in the 2024 Annual Report) was reduced by \$175 due to one grantee's final project cost coming in \$250 less than what had been submitted on the school's contract with their developer. The final grant award was subsequently reduced by \$175 as the school was eligible to receive a grant no more than 70% of the total project cost.

<sup>12</sup> The 2024 Annual Report cited 46 grants, reporting on 41 with fully executed grant contracts. Only one additional school moved forward with their grant, with the remaining four withdrawing their applications. These represented only the first funding round of 2024. The second funding round of 2024 resulted in an additional 12 fully executed grants. The 54 projects listed in *Table 8* represent the final list of 2024 SFS grantees.

<sup>13</sup> Of the nine projects approved for 2025 grants, three have fully executed grant contracts. The remaining six, all of which are a part of the 2025 R2 cohort, will be included in future Annual Reports should those contracts become fully executed.

<sup>14</sup> Of the 2022-2023 grantees, nine were awarded grants under S\*RSFS, previously managed by Xcel Energy. Eight of the nine projects have received permission to operate (PTO) with the ninth project withdrawing their application. While the estimated system production and total grant award are known, data on the 'Est. Year 1 Electric Savings' and 'Est. Lifetime (25Y) Electric Savings' fields was not collected or calculated during Xcel's S\*RFS application process. As a result, we have excluded these eight projects from the cumulative grant impacts

<sup>15</sup> [Brighter Future: A Study on Solar in U.S. K-12 Schools](#)

## Attachment 1: Comprehensive List of Solar for Schools Grantees

Table 9: Solar for Schools Grant Recipients Organized by ISD#

| ISD# | District                              | Install Location                  | Size kWdc | Est. Y1 Production kWh | Est. Y1 Electric Savings \$ | Est. Lifetime Electric Savings \$ | Grant   |
|------|---------------------------------------|-----------------------------------|-----------|------------------------|-----------------------------|-----------------------------------|---------|
| 2    | Hill City Public School District      | High School                       | 59.04     | 66,420                 | 6,110.64                    | 195,414                           | 102,000 |
| 3    | Minneapolis Public Schools            | Hall STEM Academy                 | 230.3     | 286,005                | 47,133.62                   | 1,606,855                         | 183,107 |
| 3    | Minneapolis Public Schools            | Franklin STEAM Middle             | 314.2     | 382,864                | 63,095.99                   | 2,151,036                         | 238,562 |
| 11   | Anoka-Hennepin Public School District | Adams Elementary                  | 102.91    | 121,869                | TBD                         | TBD                               | 141,366 |
| 11   | Anoka-Hennepin Public School District | Hoover Elementary                 | 287       | 335,588                | TBD                         | TBD                               | 335,135 |
| 12   | Centennial School District            | Golden Lake Elementary            | 59.2      | 66,600                 | 3,563.10                    | 113,945                           | 102,000 |
| 13   | Columbia Heights Public Schools       | Valley View Elementary            | 60.96     | 68,580                 | 5,952.74                    | 217,969                           | 90,690  |
| 13   | Columbia Heights Public Schools       | Highland Elementary               | 94.56     | 106,380                | 9,233.78                    | 338,110                           | 125,000 |
| 16   | Spring Lake Park Schools              | Centerview Elementary             | 187.4     | 228,219                | 11,981.50                   | 833,643                           | 219,287 |
| 16   | Spring Lake Park Schools              | Westwood Middle                   | 328       | 391,432                | 20,550.18                   | 1,321,206                         | 336,862 |
| 25   | Pine Point Public Schools             | K-12                              | 500.8     | 696,700                | 32,744.90                   | 983,173                           | 500,000 |
| 38   | Red Lake Schools                      | Poneham Elementary                | 56.64     | 64,105                 | 4,750.18                    | 164,506                           | 87,500  |
| 38   | Red Lake Schools                      | Secondary                         | 56.64     | 64,423                 | 4,773.74                    | 165,322                           | 87,500  |
| 38   | Red Lake Schools                      | Red Lake Elem. Complex            | 57.6      | 72,614                 | 5,446.05                    | 174,760                           | 126,791 |
| 77   | Mankato Area Public Schools           | Dakota Meadows Middle             | 49.5      | 61,788                 | 5,746.28                    | 184,969                           | 84,000  |
| 77   | Mankato Area Public Schools           | Prairie Winds Middle              | 49.5      | 61,788                 | 5,746.28                    | 184,969                           | 84,000  |
| 84   | Sleepy Eye Public Schools             | Elementary                        | 59.2      | 66,600                 | 5,148.18                    | 164,635                           | 66,000  |
| 84   | Sleepy Eye Public Schools             | High School                       | 59.2      | 66,600                 | 5,148.18                    | 164,635                           | 66,000  |
| 93   | Carlton Public Schools                | South Terrace Elementary          | 175.68    | 197,640                | 22,886.71                   | 837,977                           | 167,868 |
| 94   | Cloquet Public Schools                | Secondary Campus                  | 45.92     | 47,717                 | 3,120.69                    | 106,389                           | 107,458 |
| 97   | Moose Lake Public Schools             | PK-12                             | 49.6      | 64,661                 | 7,112.71                    | 242,484                           | 96,968  |
| 99   | Esko Public Schools                   | Athletic Center/ Forest Classroom | 29.52     | 38,350                 | 3,268.31                    | 112,901                           | 86,700  |
| 146  | Barnesville Public Schools            | High School                       | 46.56     | 64,388                 | 7,069.80                    | 226,087                           | 84,000  |
| 152  | Moorhead Public Schools               | Horizon Middle                    | 59.2      | 66,600                 | 3,336.66                    | 106,704                           | 102,000 |

| ISD# | District                                    | Install Location                | Size kWdc | Est. Y1 Production kWh | Est. Y1 Electric Savings \$ | Est. Lifetime Electric Savings \$ | Grant   |
|------|---|---------------------------------|-----------|------------------------|-----------------------------|-----------------------------------|---------|
| 152  | Moorhead Public Schools                     | Probstfield Elementary          | 59.2      | 66,600                 | 3,336.66                    | 106,704                           | 102,000 |
| 152  | Moorhead Public Schools                     | Horizon East Middle             | 59.04     | 66,420                 | 2,430.97                    | 77,741                            | 102,000 |
| 152  | Moorhead Public Schools                     | Dorothy Dodds Elementary        | 59.04     | 66,420                 | 2,430.97                    | 77,741                            | 102,000 |
| 152  | Moorhead Public Schools                     | High School                     | 59.04     | 66,420                 | 2,430.97                    | 77,741                            | 102,000 |
| 152  | Moorhead Public Schools                     | S.G. Reinertsen Elementary      | 59.04     | 66,420                 | 2,430.97                    | 77,741                            | 102,000 |
| 152  | Moorhead Public Schools                     | Alternative                     | 59.04     | 66,420                 | 2,430.97                    | 77,741                            | 102,000 |
| 194  | Lakeville Public School District            | Kenwood Trail Middle            | 59.2      | 66,000                 | 3,689.40                    | 117,998                           | 102,000 |
| 194  | Lakeville Public School District            | Century Middle                  | 59.2      | 66,600                 | 3,722.94                    | 119,057                           | 102,000 |
| 194  | Lakeville Public School District            | Eastview Elementary             | 59.04     | 66,420                 | 5,253.82                    | 168,013                           | 102,000 |
| 194  | Lakeville Public School District            | Orchard Lake Elementary         | 59.04     | 66,420                 | 4,709.18                    | 150,596                           | 102,000 |
| 194  | Lakeville Public School District            | Highview Elementary             | 59.04     | 66,420                 | 4,709.18                    | 150,596                           | 102,000 |
| 194  | Lakeville Public School District            | Oak Hills Elementary            | 59.04     | 66,420                 | 4,709.18                    | 150,596                           | 102,000 |
| 194  | Lakeville Public School District            | Cherry View Elementary          | 59.04     | 66,420                 | 4,709.18                    | 150,596                           | 102,000 |
| 196  | Rosemount, Apple Valley, Eagan Schools      | School of Environmental Studies | 26        | 29,250                 | 1,638.00                    | 52,382                            | 62,900  |
| 196  | Rosemount Apple Valley Eagan Schools        | Emerald Trail Elementary        | 328       | 370,027                | 33,302.43                   | 1,071,981                         | 361,133 |
| 197  | West St. Paul-Mendota Heights-Eagan Schools | Friendly Hills Middle           | 162.24    | 182,520                | 15,842.74                   | 580,107                           | 167,860 |
| 197  | West St. Paul-Mendota Heights-Eagan Schools | Two Rivers High                 | 330.24    | 371,520                | 32,247.94                   | 1,180,810                         | 299,148 |
| 197  | West St. Paul-Mendota Heights-Eagan Schools | Heritage E-STEM Magnet          | 216.96    | 244,080                | 21,186.14                   | 775,765                           | 207,888 |
| 200  | Hastings Public Schools                     | High School                     | 239.94    | 269,933                | 23,430.18                   | 858,147                           | 265,520 |
| 200  | Hastings Public Schools                     | Kennedy Elementary              | 320.85    | 409,084                | 35,385.77                   | 1,295,127                         | 403,810 |
| 238  | Maybel-Canton Public School                 | K-12                            | 110.4     | 129,645                | 14,261.00                   | 459,050                           | 80,770  |
| 241  | Albert Lea Area Schools                     | Halverson Elementary            | 59.2      | 66,600                 | 4,195.80                    | 134,178                           | 102,000 |
| 241  | Albert Lea Area Schools                     | Southwest Middle                | 59.2      | 66,304                 | 4,183.78                    | 133,794                           | 102,000 |
| 241  | Albert Lea Area Schools                     | High School                     | 59.04     | 66,420                 | 5,194.04                    | 166,101                           | 102,000 |
| 241  | Albert Lea Area Schools                     | Sibley Elementary               | 59.04     | 66,420                 | 5,194.04                    | 166,101                           | 102,000 |
| 261  | Ashby Public School District                | K-12                            | 48.23     | 55,264                 | 4,734.00                    | 158,238                           | 102,000 |

| ISD# | District                       | Install Location            | Size kWdc | Est. Y1 Production kWh | Est. Y1 Electric Savings \$ | Est. Lifetime Electric Savings \$ | Grant   |
|------|--------------------------------|-----------------------------|-----------|------------------------|-----------------------------|-----------------------------------|---------|
| 271  | Bloomington Public Schools     | John F. Kennedy High School | 492.82    | 572,592                | 40,253.20                   | 1,287,266                         | 574,011 |
| 271  | Bloomington Public Schools     | Normandale Hills Elementary | 130.56    | 146,880                | 12,749.18                   | 466,832                           | 114,452 |
| 279  | Osseo Area Public Schools      | Basswood Elementary         | 59.2      | 66,600                 | 4,788.54                    | 153,134                           | 84,000  |
| 279  | Osseo Area Public Schools      | Oak View Elementary         | 59.2      | 65,712                 | 4,731.26                    | 151,302                           | 84,000  |
| 279  | Osseo Area Public Schools      | Park Center High            | 524.8     | 610,181                | 42,895.73                   | 1,371,772                         | 611,432 |
| 279  | Osseo Area Public Schools      | Cedar Island Elementary     | 59.04     | 66,420                 | 4,722.46                    | 151,021                           | 84,000  |
| 279  | Osseo Area Public Schools      | Maple Grove Middle          | 59.04     | 66,420                 | 4,722.46                    | 151,021                           | 84,000  |
| 280  | Richfield Public Schools       | STEM                        | 202.54    | 234,290                | 16,470.57                   | 526,716                           | 235,494 |
| 287  | Intermediate. District 287     | South Education Center      | 371.5     | 414,245                | 35,956.47                   | 1,316,603                         | 328,484 |
| 294  | Houston Public Schools         | High School                 | 49.6      | 59,548                 | 3,632.43                    | 123,836                           | 111,674 |
| 294  | Houston Public Schools         | Elementary/Bus Garage       | 49.6      | 59,560                 | 3,633.16                    | 123,860                           | 113,575 |
| 297  | Spring Grove School District   | Elementary/Secondary        | 47.97     | 64,388                 | 7,069.80                    | 226,087                           | 102,000 |
| 299  | Caledonia Area Public Schools  | Middle/High                 | \$ 50     | 70,096                 | 5,117.01                    | 164,713                           | 101,575 |
| 299  | Caledonia Area Public Schools  | Elementary                  | 59.04     | 70,197                 | 5,124.38                    | 164,950                           | 102,000 |
| 306  | Laporte Public School District | High School                 | 59.04     | 66,420                 | 4,981.50                    | 159,304                           | 84,000  |
| 309  | Park Rapids Public Schools     | High School                 | 729.6     | 930,240                | 91,256.54                   | 3,343,370                         | 500,000 |
| 314  | Braham Area Schools            | High School                 | 49.6      | 57,875                 | 3,472.50                    | 118,383                           | 101,902 |
| 314  | Braham Area Schools            | Elementary                  | 40.8      | 47,609                 | 2,856.54                    | 97,383                            | 92,603  |
| 318  | Grant Rapids School District   | Bigfork Elementary          | 402.52    | 493,087                | 48,389.51                   | 1,760,198                         | 500,000 |
| 332  | Mora Public Schools            | Elementary                  | 59.2      | 65,416                 | 5,141.70                    | 164,427                           | 102,000 |
| 332  | Mora Public Schools            | High School                 | 59.2      | 66,600                 | 5,221.44                    | 166,978                           | 102,000 |
| 345  | New London - Spicer Schools    | Prairie Wood Elementary     | 59.04     | 65,545                 | 4,457.06                    | 142,509                           | 84,000  |
| 345  | New London - Spicer Schools    | Middle School               | 59.04     | 66,420                 | 3,520.26                    | 112,575                           | 84,000  |
| 345  | New London - Spicer Schools    | High School                 | 59.04     | 65,534                 | 4,456.31                    | 142,509                           | 84,000  |
| 347  | Willmar Public Schools         | Lakeland Elementary         | 59.52     | 66,960                 | 5,182.70                    | 189,792                           | 109,992 |
| 347  | Willmar Public Schools         | High School                 | 59.52     | 66,960                 | 5,182.70                    | 189,792                           | 109,992 |
| 347  | Willmar Public Schools         | Middle School               | 59.52     | 66,960                 | 5,182.70                    | 189,792                           | 109,992 |
| 347  | Willmar Public Schools         | Roosevelt Elementary        | 59.52     | 66,960                 | 5,182.70                    | 189,792                           | 109,992 |

| ISD# | District                                 | Install Location             | Size kWdc | Est. Y1 Production kWh | Est. Y1 Electric Savings \$ | Est. Lifetime Electric Savings \$ | Grant   |
|------|--|------------------------------|-----------|------------------------|-----------------------------|-----------------------------------|---------|
| 361  | International Falls                      | High School                  | 410.9     | 581,300                | 44,760.10                   | 1,201,391                         | 500,000 |
| 404  | Lake Benton Public Schools               | Elementary                   | 45.6      | 62,000                 | 7,322.20                    | 249,593                           | 41,796  |
| 413  | Marshall Public Schools                  | High School                  | 49.6      | 65,670                 | 3,743.19                    | 126,368                           | 101,809 |
| 413  | Marshall Public Schools                  | Middle School                | 49.6      | 65,670                 | 3,677.52                    | 126,301                           | 99,913  |
| 413  | Marshall Public Schools                  | Park Side Elementary         | 49.6      | 65,670                 | 3,743.19                    | 126,368                           | 101,809 |
| 413  | Marshall Public Schools                  | Southview Elementary         | 49.6      | 66,223                 | 3,708.49                    | 126,428                           | 99,913  |
| 413  | Marshall Public Schools                  | CTE Center                   | 49.6      | 66,197                 | 5,295.76                    | 180,541                           | 93,691  |
| 414  | Minneota Public School                   | K-12                         | 47.56     | 53,114                 | 5,417.63                    | 187,178                           | 60,000  |
| 482  | Little Falls Community School District   | High School                  | 274.35    | 336,079                | 32,981.37                   | 1,207,899                         | 421,884 |
| 486  | Swanville Public Schools                 | K-12                         | 39        | 50,145                 | 6,569.00                    | 223,947                           | 101,937 |
| 497  | Lyle Public School District              | Elementary                   | 59.04     | 66,420                 | 5,027.99                    | 160,791                           | 102,000 |
| 508  | Saint Peter Public School District       | High School                  | 51.06     | 55,539                 | 4,165.00                    | 151,853                           | 102,000 |
| 508  | Saint Peter Public School District       | Middle School                | 51.06     | 55,539                 | 4,165.43                    | 151,853                           | 102,000 |
| 531  | Byron School District                    | High School                  | 59.2      | 66,008                 | 4,653.56                    | 148,817                           | 102,000 |
| 534  | Stewartville School District             | Bear Cave Intermediate       | 49.6      | 58,628                 | 3,634.94                    | 123,922                           | 96,078  |
| 535  | Rochester Public Schools                 | Dakota Middle                | 59.2      | 66,600                 | 4,788.54                    | 153,134                           | 84,000  |
| 535  | Rochester Public Schools                 | Longfellow Elementary        | 59.2      | 66,600                 | 4,788.54                    | 153,134                           | 84,000  |
| 535  | Rochester Public Schools                 | Overland Elementary          | 50.4      | 60,353                 | 3,922.95                    | 126,277                           | 84,000  |
| 535  | Rochester Public Schools                 | Bishop Elementary            | 50.4      | 59,618                 | 6,557.98                    | 211,097                           | 83,967  |
| 535  | Rochester Public Schools                 | Elton Hills Elementary       | 66.7      | 78,704                 | 5,666.69                    | 182,407                           | 81,374  |
| 535  | Rochester Public Schools                 | Hoover Elementary            | 59.52     | 66,960                 | 4,238.57                    | 136,393                           | 82,715  |
| 553  | New York Mills Public School             | K-12                         | 59.2      | 66,600                 | 4,355.64                    | 139,290                           | 102,000 |
| 622  | North St. Paul Maplewood-Oakdale Schools | Richardson Elementary        | 59.52     | 70,283                 | 7,703.02                    | 2,824,533                         | 83,495  |
| 622  | North St. Paul Maplewood-Oakdale Schools | Carver Elementary            | 327.8     | 368,820                | 32,013.58                   | 1,172,229                         | 362,275 |
| 622  | North St. Paul Maplewood-Oakdale Schools | Justice Alan Page Elementary | 196.8     | 221,400                | 19,217.52                   | 703,681                           | 228,000 |
| 623  | Roseville Public School District         | Little Canada Elementary     | 234.93    | 273,249                | 19,209.40                   | 614,302                           | 273,751 |

| ISD# | District                         | Install Location       | Size kWdc | Est. Y1 Production kWh | Est. Y1 Electric Savings \$ | Est. Lifetime Electric Savings \$ | Grant   |
|------|----------------------------------|------------------------|-----------|------------------------|-----------------------------|-----------------------------------|---------|
| 623  | Roseville Public School District | Edgerton Elementary    | 144.32    | 167,729                | 11,791.33                   | 377,077                           | 196,979 |
| 623  | Roseville Public School District | Harambee Elementary    | 57.4      | 66,300                 | 4,660.91                    | 149,052                           | 91,464  |
| 624  | White Bear Lake Public Schools   | High School            | 469.44    | 528,120                | 45,840.82                   | 1,678,535                         | 457,930 |
| 624  | White Bear Lake Public Schools   | Vadnais Elementary     | 171.84    | 193,320                | 16,780.18                   | 614,433                           | 217,070 |
| 625  | Saint Paul Public Schools        | Bruce Vento Elementary | 311.46    | 376,832                | 35,799.04                   | 1,236,850                         | 291,199 |
| 700  | Hermantown Community Schools     | Senior High            | 59.2      | 66,008                 | 6,151.95                    | 196,734                           | 102,000 |
| 700  | Hermantown Community Schools     | Middle School          | 59.2      | 66,600                 | 7,798.86                    | 249,401                           | 102,000 |
| 704  | Proctor Public Schools           | Pike Lake Elementary   | 59.2      | 66,600                 | 7,792.20                    | 249,188                           | 102,000 |
| 704  | Proctor Public Schools           | Bay View Elementary    | 59.2      | 66,600                 | 7,792.20                    | 249,188                           | 102,000 |
| 704  | Proctor Public Schools           | High School            | 59.04     | 66,420                 | 5,732.05                    | 183,306                           | 102,000 |
| 709  | Duluth Public Schools            | Lincoln Park Middle    | 100.44    | 115,395                | 11,574.12                   | 370,168                           | 125,000 |
| 720  | Shakopee Public School District  | East Middle            | 51.87     | 65,055                 | 5,100.31                    | 135,377                           | 102,000 |
| 720  | Shakopee Public School District  | Sweeney Elementary     | 51.87     | 65,013                 | 5,097.02                    | 135,292                           | 102,000 |
| 786  | Bertha-Hewitt Public Schools     | Elementary             | 386.88    | 435,240                | 50,400.79                   | 1,845,381                         | 486,630 |
| 813  | Lake City Public Schools         | High School            | 266.4     | 301,432                | 19,292.00                   | 620,984                           | 322,828 |
| 813  | Lake City Public Schools         | Elementary             | 238.8     | 268,613                | 17,191.00                   | 553,373                           | 177,172 |
| 818  | Verndale Public School District  | Elementary             | 59.2      | 65,712                 | 7,694.88                    | 246,076                           | 114,000 |
| 820  | Sebekia Public Schools           | Elementary             | 338.1     | 380,130                | 38,393.13                   | 1,701,824                         | 361,091 |
| 821  | Menahga Public School District   | High School            | 59.04     | 65,534                 | 5,583.50                    | 178,556                           | 114,000 |
| 821  | Menahga Public School District   | Elementary             | 59.04     | 66,420                 | 5,658.98                    | 178,556                           | 114,000 |
| 840  | St. James Public Schools         | Middle/High            | 59.2      | 66,600                 | 3,762.90                    | 120,335                           | 102,000 |
| 840  | St. James Public Schools         | Northside Elementary   | 59.2      | 66,600                 | 3,762.90                    | 120,335                           | 102,000 |
| 850  | Rothsay Public Schools           | PK-12                  | 48.23     | 55,997                 | 4,457.36                    | 148,962                           | 84,000  |
| 857  | Lewiston Altura Public Schools   | High School            | 218.5     | 290,580                | 20,631.18                   | 1,006,711                         | 214,130 |
| 857  | Lewiston Altura Public Schools   | Elementary             | 186.3     | 223,311                | 15,855.08                   | 847,194                           | 210,519 |
| 858  | St. Charles Public Schools       | High School            | 59.52     | 66,960                 | 6,528.60                    | 210,151                           | 83,030  |
| 858  | St. Charles Public Schools       | Elementary             | 59.52     | 66,960                 | 6,528.60                    | 210,151                           | 81,960  |
| 879  | Delano Public Schools            | High School            | 59.2      | 66,600                 | 4,375.62                    | 139,929                           | 102,000 |

| ISD# | District                                       | Install Location        | Size kWdc | Est. Y1 Production kWh | Est. Y1 Electric Savings \$ | Est. Lifetime Electric Savings \$ | Grant   |
|------|--|-------------------------|-----------|------------------------|-----------------------------|-----------------------------------|---------|
| 879  | Delano Public Schools                          | Intermediate School     | 59.2      | 66,304                 | 4,356.17                    | 139,307                           | 102,000 |
| 2071 | Lake Crystal Wellcome Memorial School District | Secondary               | 59.04     | 66,420                 | 2,723.22                    | 87,086                            | 84,000  |
| 2071 | Lake Crystal Wellcome Memorial School District | Elementary              | 59.04     | 66,420                 | 2,723.22                    | 87,086                            | 84,000  |
| 2137 | Kingsland Public School District               | Kingsland K12           | 204       | 264,555                | 18,518.85                   | 635,562                           | 183,198 |
| 2164 | Dilworth-Glyndon-Felton Public Schools         | Elementary              | 336       | 378,000                | 32,810.40                   | 1,201,406                         | 453,960 |
| 2165 | Hinckley-Finlayson School District             | High School             | 59.2      | 66,600                 | 7,792.20                    | 249,188                           | 102,000 |
| 2165 | Hinckley-Finlayson School District             | Hinckley Elementary     | 59.2      | 66,600                 | 7,792.20                    | 249,188                           | 102,000 |
| 2711 | Mesabi East School District                    | Elementary              | 59.04     | 66,420                 | 5,658.98                    | 180,970                           | 102,000 |
| 2769 | Morris Area Schools                            | Elementary/High School  | 49.05     | 58,381                 | 6,818.90                    | 217,474                           | 84,000  |
| 2835 | Janesville Waldorf Pemberton Schools           | High School             | 59.04     | 66,420                 | 7,113.58                    | 227,487                           | 84,000  |
| 2888 | Clinton-Graceville-Beardsley Schools           | Secondary               | 74.9      | 88,960                 | 9,874.56                    | 320,004                           | 62,340  |
| 2899 | Plainview Elgin Millville Com Schools          | 4-6 Building            | 59.2      | 66,600                 | 4,695.30                    | 150,152                           | 102,000 |
| 2899 | Plainview Elgin Millville Com Schools          | PK-3                    | 59.2      | 66,600                 | 4,695.30                    | 150,152                           | 102,000 |
| 2899 | Plainview Elgin Millville Com Schools          | Junior High             | 59.52     | 66,960                 | 4,218.48                    | 135,790                           | 81,460  |
| 2899 | Plainview Elgin Millville Com Schools          | High School             | 59.52     | 66,960                 | 4,218.48                    | 135,790                           | 83,030  |
| 2905 | Tri-City United Schools                        | High School             | 59.2      | 66,600                 | 4,681.98                    | 149,726                           | 102,000 |
| 2905 | Tri-City United Schools                        | Le Center Elem./ Middle | 59.2      | 66,600                 | 4,681.98                    | 149,726                           | 102,000 |
| 2905 | Tri-City United Schools                        | Montgomery PK-8         | 59.04     | 66,420                 | 4,071.55                    | 130,205                           | 102,000 |
| 2908 | Brandon-Evansville Public Schools              | Brandon High            | 52        | 61,559                 | 6,974.63                    | 237,776                           | 63,200  |
| 2908 | Brandon-Evansville Public Schools              | Evansville Elementary   | 52        | 62,283                 | 6,844.90                    | 233,310                           | 64,247  |
| 2909 | Rock Ridge Public Schools                      | Laurentian Elementary   | 348.48    | 392,040                | 33,302.43                   | 1,662,217                         | 460,476 |
| 6083 | Southern Minn. Educ. Consortium (SMEC)         | Main Education Building | 54        | 64,682                 | 7,762.00                    | 249,848                           | 47,996  |
| N/A  | Minnesota West Community & Technical College   | Canby Campus            | 50        | 65,512                 | 5,383.12                    | 134,578                           | 48,000  |
| N/A  | Anoka Ramsey Community College                 | Cambridge Campus        | 49.92     | 64,311                 | 3,762.19                    | 147,162                           | 87,111  |