

**INDEPENDENT SCHOOL
DISTRICT #624**



**WORK-STUDY
MEETING PACKET**

March 25, 2019

MISSION STATEMENT

The mission of the White Bear Lake Area School District, the community at the forefront of educational excellence, honoring our legacy and courageously building the future, is to ensure each student realizes their unique talents and abilities, and makes meaningful contributions with local and global impact through a vital system distinguished by:

- Students who design and create their own future**
- Diversity of people and ideas**
- Safe, nurturing and inspiring environments**
- Exceptional staff and families committed to student success**
- Abundant and engaged community partners**

To: Members of the School Board

From: Dr. Wayne Kazmierczak
Superintendent of Schools

Date: March 18, 2019

A work-study session of the White Bear Lake Area School Board will be held on **Monday, March 25, 2019**, at 5:30 p.m. in Community Room 112 at the District Center, 4855 Bloom Avenue, White Bear Lake, MN.

WORK-STUDY AGENDA

A. PROCEDURAL ITEMS

1. Call To Order
2. Roll Call

B. DISCUSSION ITEMS

- | | |
|--|-----------|
| 1. Solar Energy Installation | 5:30 p.m. |
| 2. Update on Fiscal Year 2020 Budget Development | 6:00 p.m. |
| 3. Elementary Program Update | 6:30 p.m. |
| 4. Negotiations Strategy Discussion* | 7:00 p.m. |

C. ADJOURNMENT

<p>*This portion of the meeting may be closed to consider strategy for labor negotiations, including negotiation strategies or developments or discussion and review of labor negotiation proposals, conducted pursuant to Minnesota Statutes 179.A.01 to 179.A.25.</p>

AGENDA ITEM: **Solar Energy Installation**

MEETING DATE: **March 25, 2019**

SUGGESTED DISPOSITION: **Discussion Item**

CONTACT PERSON(S): **Tim Wald, Assistant Superintendent for**
Finance and Operations
Dan Roeser, Building Operations

BACKGROUND:

Nationally, approximately 5% of schools utilize solar power. As of 2018, Minnesota obtains 1.55% of the State's electricity from solar. This is beginning to change as schools and organizations are taking advantage of federal and state solar tax incentives

In 2017, Governor Dayton issued Executive Order 17-12 to improve energy efficiency, directing 30% reduction in energy consumption per square foot by 2027. To implement this goal, state agencies are implementing efficiency efforts to reduce consumption and save taxpayers money through lower utility costs.

In 2015, the US Congress approved the extension of the Investment Tax Credit (ITC), allowing solar owners to deduct 30% of the cost of installing a solar energy system. For non-profits, the savings can be realized by working with a third party who install the equipment at their own expense in exchange for utilizing tax and energy savings incentives. In our case, the school district would own the solar equipment, reduce its carbon footprint, and save a portion of energy costs.

Tonight, Chris Psihos, President/CEO and Rich Ragatz, Senior VP of Business Development from commercial solar developer, iDEAL Energies, will share the opportunity for the District to reduce its carbon footprint and save energy costs.

DO YOUR PART TO SAVE THE PLANET.

SOCIAL RESPONSIBILITY STARTS WITH SOLAR.
HELP SHRINK YOUR CARBON FOOTPRINT
WHILE CREATING A CLEANER WORLD FOR FUTURE GENERATIONS

Our Greatest Renewable Resource

More energy from the sun falls on the earth in one hour than is used by everyone in the world in one year.

Abundant & Recyclable Materials

Solar panels are made mostly of Silicon and aluminum. Silicon is the second most abundant element in the earth's crust, and aluminium is the most recyclable of all materials.

Consider Your Carbon Footprint

A 40 kW system helps offset 77,000 pounds of carbon per year. That offsets CO₂ emissions from 38,231 pounds of coal burned, and is equivalent to the carbon sequestered by 41 acres of U.S. forests in one year.

Lessen Greenhouse Gas Emissions

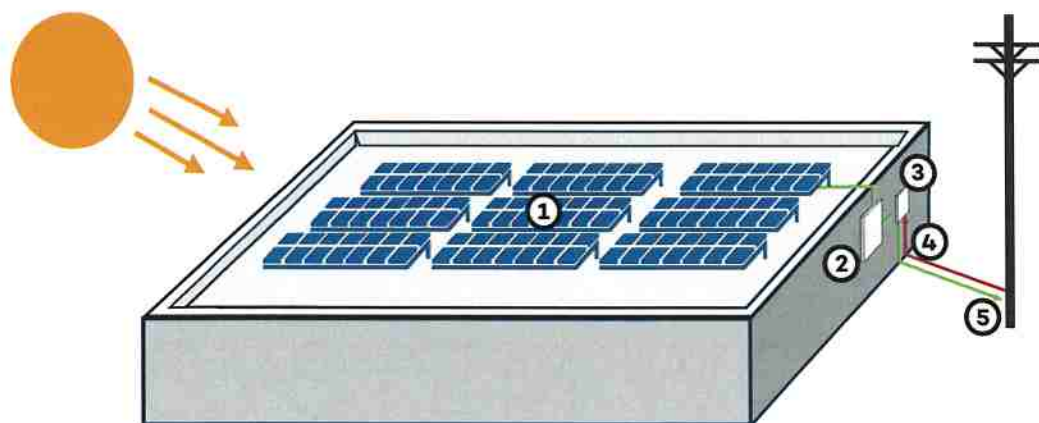
Burning fossil fuels for electricity and heat production is the largest single source of global greenhouse gas emissions (GHG), according to the EPA. GHG emissions are a major cause of climate change, which impacts ocean acidification and rising sea levels, air quality issues, and strong weather events that affect global food and water supplies.

By going solar, you reduce the demand for fossil fuels, which leads to a reduction in greenhouse gases (GHG).

Environmental & Public Health Benefits

Quantifying these impacts is essential to understanding the true costs and benefits of solar. Compared with fossil fuel generators, photovoltaic solar systems produce lower life-cycle levels of greenhouse gas emissions and harmful pollutants. This lessens future health and environmental damages.

HOW YOUR SYSTEM WORKS



1

Solar Panels

Solar panels are made up of photovoltaic (PV) cells that convert sunlight into direct current (DC) electricity.



2

Inverter

The inverter changes the energy from the solar panels (DC) and turns it into (AC) energy, which can be used by your building or sent back to the utility grid. A (DC) disconnect is built into the inverter.



3

Electrical Panel

The (AC) electricity is sent from the inverter to your electrical panel to power your business with solar energy. The electrical panel is often called a "breaker box" or "circuit breaker".



4

Utility Meter

The utility company installs a two-way meter in place of your original meter. This new meter has the ability to quantify the production of your PV system and the consumption of your building. If energy is needed beyond what is produced by your array, it is drawn from the utility grid. If excess energy is created that is not needed by the building, it is sent back to the utility grid. Excess energy is credited at retail rates on your electric bill.



5

Utility Grid

Your building is still connected to the grid. You'll use energy from the grid when the building needs more energy than the array is producing, and at night when the array is not producing.

SOLAR FAQs

Is solar technology reliable?

Ongoing research in the field has created ever more efficient and standardized technology. No longer a novel product, most solar panels today are interchangeable and come with long warranties and production guarantees.

Is solar power affordable?

Solar has come a long way over the past decade, with the help of tax credits, rebates and other supports. This increased demand has led to falling prices and huge growth in the output and capability of solar technology worldwide, which will continue to create major reductions in the cost of solar power generation.

What incentives are available?

In Xcel Energy territory, you are eligible for a production-based incentive program, available on a first come first served basis, for systems up to 40 kW.

For systems bigger than 40 kW, Xcel Energy offers compensation for helping them control peak demand, through a utility tariff program.

You are eligible for a federal tax credit equal to 30% of the total purchase price of the system. Additionally, businesses can benefit from accelerated depreciation for both Federal and State taxes.

For our non-profit customers, we leverage these tax benefits on your behalf.

Can you convert solar energy on a cloudy or rainy day?

The rain helps to wash away dust and dirt. Although not as effective as on a sunny day, producing 10-25% of its regular capacity, solar energy can still be converted on a cloudy day. Germany, which gets as much sunshine as the state of Alaska, is the world's top solar panel installer, producing 31% of the world's renewable energy.

How durable are my solar panels?

The quality of the PV Panels we use are engineered to high resistance. They have an international standard minimum of 1" diameter hail traveling at 50 mph. Damage from debris, hail or storms are very rare, but generally covered under your insurance plan.

How can solar enhance our image?

Generating your own electricity demonstrates that you not only care about the environment, but that you have a vested interest in the future. Whether your motivation is to hedge against rising utility costs, or reducing your carbon footprint, moving away from fossil fuels sends a positive message to your customers and your community that you are committed to being socially responsible.

iDEAL Energies can help schools incorporate data from the on-site solar arrays into their curriculum that meets current and future MN Science Standards.

What about my roof?

There are several solutions for every age roof, including options to extend roof life. If your roof is nearing the end of its usable life, pairing the roof replacement with a solar array can help offset the cost of that capital improvement. If you're somewhere in the middle, there are also affordable options for the removal & replacement of your solar array.

As your developer, iDEAL Energies coordinates with your roof manufacturer to provide all necessary documentation to preserve any existing roof warranties.

What size PV solar system do I need?

Your needs will depend up on the your energy consumption and the size of your building / and adjacent grounds.

First, we review your annual energy consumption, which can be obtained from your utility bill. Next, we look at the physical size of your facility and/or available land.

Commercial systems can range in size from 20 kW up to 1000 kW, with a footprint of roughly 100 square feet per kW.

Certain conditions determine how optimal your site is for solar, including: direct sun exposure, shading, slope and which direction the roof is facing.

iDEALPULSE

MONITORING SOFTWARE



- OPTIMIZED ENERGY PRODUCTION
- COMPREHENSIVE ANALYTICS TRACKING
- ACCURATE AND REMOTE TROUBLESHOOTING
- REAL-TIME MONITORING AT ALL LEVELS

iDEAL has developed its own, proprietary monitoring system called iDEALPulse. We use data insights to refine our offerings based on the most current products & real-time energy production numbers; all to ensure energy production is maximized so you achieve the greatest return on your investment.



Energy Benchmarking

iDEALPULSE takes performance data from 275+ systems to collect, analyze, and compare actual vs. expected kWh production. We benchmark the system's performance against its peers to make sure it is working properly and performing optimally.



Web-Based O&M

iDEALPULSE can identify problems and schedules service calls to keep your system operating at full capacity. Should any issues arise, iDEAL will promptly identify it, and our field engineers are available and ready to mobilize to our Customer's site and promptly resolve them.



Project Management

iDEALPULSE keeps all project information in one web-based system. This streamlined process enables us to bring our Customers projects from contract to commissioning, while allowing iDEAL's project management team to remain in control throughout the life cycle of the product.

Our Valued Customers

Business Service

- Abetech
- Advantage Scaffold & Ladders
- Astoria Co
- Blumentals/Architecture
- Children's Discovery Child Care and Learning Centers
- Cutting Edge Property Maintenance, Inc
- Lake Region Storage
- Lovegreen Industrial Services
- Metro Storage and RV
- Motion Tech
- Midstate Companies
- Northstar Bus Lines
- NuSource Financial
- Property Resources Corporation/Budget Truck
- Renovation Systems
- Think Small
- Town and Country Club
- Twin City Twisters
- Whiteboard Product Solutions

Cities/Counties

- City of Elko New Market
- City of Hinckley
- City of La Crescent
- City of Mendota Heights
- City of Newport
- City of Richfield
- City of Rogers
- City of Roseville
- City of Shoreview
- Ramsey County

Education

- Aurora Charter School
- Blake Schools
- Byron Schools
- Burnsville Schools
- Columbia Heights Schools
- Eden Prairie Schools
- Kimball Schools
- Lakeview Public Schools
- Many Rivers Montessori
- Maple Lake Schools
- Minneapolis Public Schools
- Richfield Schools
- Summit Academy OIC
- Tracy Area Public Schools

Environmental

- Gopher Resources
- Tangletown Garden

Food

- Dragon Star Oriental Foods
- Dragon Star Supermarket
- Fresh and Natural Foods
- Karlsburger Foods, Inc
- Pan-O-Gold (Country Hearth)
- Royal Vending
- Russ Davis Wholesale, Inc
- Star Ocean Foods
- Sun Foods

Logistics/Distribution

- AR North America
- BI (Business Incentives)
- MN Commercial Railway
- Murphy Central
- Braas
- The Winston Company

Marketing/Sales/Printing

- Alvin E McQuinn (Seachange Printing)
- Ambassador Press
- Ball-Pro
- Graphic Systems
- Papercut Converting, Inc

Non-Profits

- Al Amaan Center for Worship & Education
- Belwin Conservancy
- Capitol Region Watershed
- First Presbyterian Church
- Goodwill Easter-Seals
- Minnesota Cement Masons Local 633
- Washburn Center for Children
- Industrial Fabrics Association Int'l
- Ironworkers Local 512
- Project for Pride in Living
- Tawfiq Islamic Center

Real Estate

- Artspace Grainbelt, LLC
- 15400 Associates, LLC
- Donald Tyler Enterprises
- East Gate 1, LLC
- Florida West Partners
- JGM Properties
- Lofts on Arts Avenue
- Martin Luther Manor
- Phoenix Ventures
- P3, LLC
- Space Center
- Ted Glasrud Associates MN, LLC
- Valley Office Partners

Retail/Wholesale/Manufacturing

- 2445 Associates LLP
- Air Quality Engineering
- Beauty Craft
- Borofka
- Brainerd Entertainment (Mann Theaters)
- Brotex Inc
- Bredemus Hardware
- Carpet King
- Cemstone Products Company
- Clean Air Products
- Condux International
- Cottens Automotive
- Dubow Textile
- Floor Source
- Frana Companies
- Goldcom Inc
- Goodin Company
- HAF Equipment
- Hawkins Chemical
- Hirshfields
- Hoglund Body and Equipment
- Innovative Chemical Corporation
- Johnstone (Craw)
- JN Johnson Fire and Safety
- Mann Theatres Champlin
- Michel Sales Agency
- Mikros Engineering
- McCormick Computer Resale, Inc.
- Minnesota Equipment/Scharber & Sons
- Minnesota Knitting Mills
- Plymouth Foam
- Rochford Supply
- Schadegg Mechanical
- Schneiderman's Furniture
- Schuler Shoes
- Siewert Cabinets
- Specialty Engineering
- Spiral Leasing
- St Paul Corrugating
- The Wine Company
- Thorud Manufacturing
- Touchstone Lighting
- Twin City Hardware
- Twincom, Inc (The Winston Company)
- Unity Tool, Inc
- Warners Stellan

AGENDA ITEM: **Update on Fiscal Year 2020 Budget Development**

MEETING DATE: **March 25, 2019**

SUGGESTED DISPOSITION: **Discussion Item**

CONTACT PERSON(S): **Matt Mons, Director of Human Resources**
Tim Wald, Assistant Superintendent for
Finance and Operations

BACKGROUND:

At the February work study session, the Board adopted the modified budget for 2018-2019 and had an initial look at the 2019-2020 budget. At this time, it was suggested that the new year budget will reflect budget cuts to ensure we are able to meet our Board fund balance policy.

Matt Mons and Tim Wald will provide an overview of the steps being taken to identify budget adjustments and staffing strategies for 2019-2020.

AGENDA ITEM: **Elementary Program Update**

MEETING DATE: **March 25, 2019**

SUGGESTED DISPOSITION: **Discussion Item**

CONTACT PERSON(S): **Sara Paul, Assistant Superintendent for Teaching and Learning**

BACKGROUND:

Last fall, administration and the School Board identified strategic priorities for the 2018-19 school year. One of priorities was to review elementary visual arts programming in the context of our elementary specialist offerings. The elementary principals came to the November 26, 2018 work study meeting to discuss the comprehensive elementary school program. The challenge continues to be balancing requests to add programming into a defined amount of learning time. With each opportunity there are trade-offs to consider. We will provide updates regarding Physical Education, Art, Orchestra/General Music, Media/Reach Services, and World Language.

AGENDA ITEM: **Negotiations Study Session**

MEETING DATE: **March 25, 2019**

SUGGESTED DISPOSITION: **Discussion Item**

CONTACT PERSON: **Matt Mons, Director of Human Resources**

BACKGROUND:

Matt Mons, Director of Human Resources, will provide information on strategies for the upcoming labor negotiations.

This portion of the meeting will be closed as permitted by Minnesota statutes.

<p>This portion of the meeting may be closed to consider strategy for labor negotiations, including negotiation strategies or developments or discussion and review of labor negotiation proposals, conducted pursuant to Minnesota Statutes 179.A.01 to 179.A.25.</p>
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