



# Energy Class Prize Phase 2 Presentation



# Lansing School District Team Overview



## Our Team

### Lansing School District Staff

Chief Operating Officer - Kristina Tokar

Director of Operations - Lori Brandon

Special Assistant to COO & Designated Energy  
Champion/Training and Coach Program Representative - Mark  
Cardinal

Facilities Manager - Caleb Thelen

Sinking Fund Bond Representative - Todd Coe

### Sustainability Advisory Partner

Greenlink Education



# Project Overview: 2023–24 Focus Areas



## Training & Education

- Energy Classes & Coaching**
- Conferences & Forums**  
Attend numerous Green Tech conferences and forums
- Launched HS Internship**  
Pilot student internship program

## Energy Assessment & Analysis

- Energy Star Portfolio Manager Integration**
- Energy Assessments & Statewide Audit**  
Launch multiple energy audits
- Geothermal Recommissional**  
Monitor performance of district first geothermal system

## Project Implementation

- Distributed Generation Solar Initiative**
- Master Facilities Planning**
- Clean School Bus Rollout**
- Energy Efficiency Projects**

# Progress Made During Phase 2



## Highlights

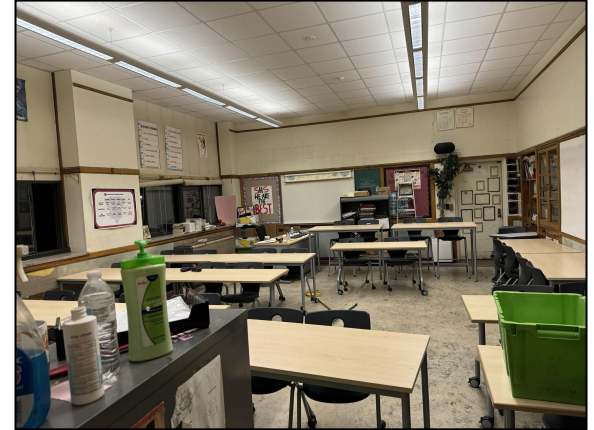
- ★ Energy Star Portfolio Manager Launch
- ★ LED Lighting Upgrades
- ★ Development of Distributed Generation Solar Initiative
- ★ Groundbreaking New Construction Project

# Progress Made During Phase 2, cont,



## Energy Efficient Lighting Upgrades

- Lyons Elementary
- Sexton High School
- Everett High School

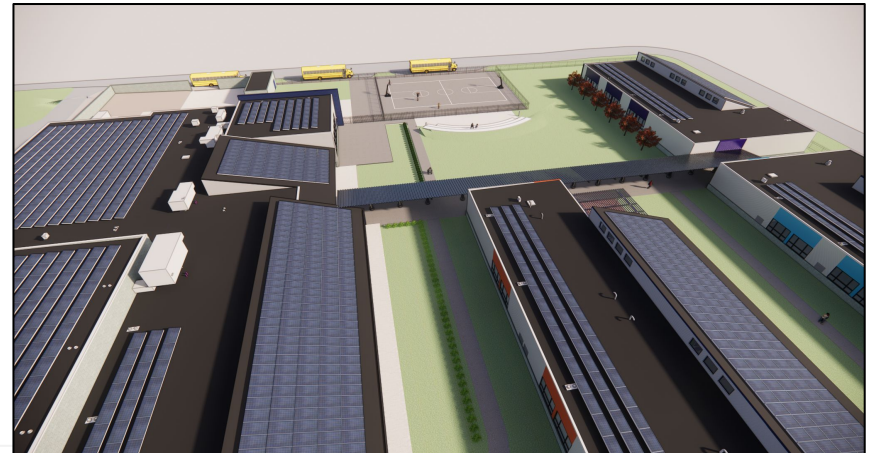


# Summary of Facilities Addressed in Your Plan

Before



After



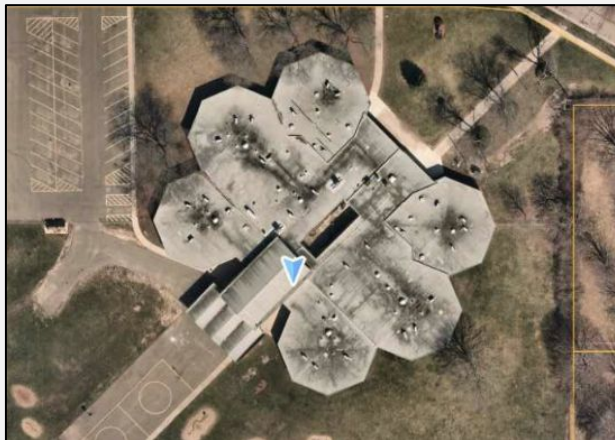
## Willow Elementary New Construction



- State-of-the-Art Green Tech
- Geothermal Heat Pump
- Rooftop Solar Arrays

# Summary of Facilities Addressed, cont.

## Without Solar Array

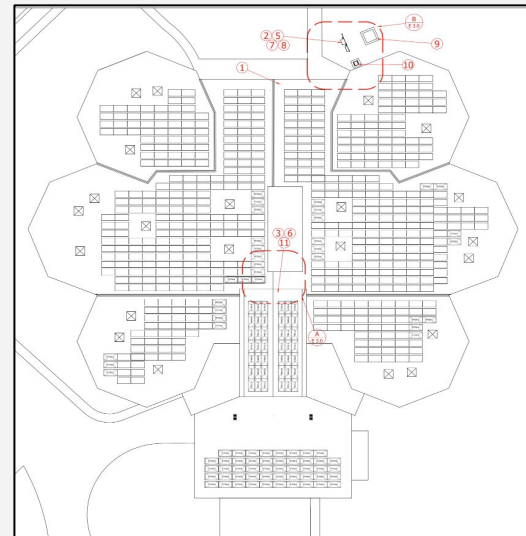


Outdated Roof in need  
of replacement

## Rooftop Solar and “Solar-Ready” Roof Replacements\*

- Attwood,  
Cavanaugh,  
Forest View, Gier  
Park, Hill, Lyons,  
North, Pattengill,  
Pleasant View  
Wexford,  
Woodcreek

## With Solar Array



312 kWdc Photovoltaic Array

# Summary of Facilities Addressed, cont.

## ENERGY EFFICIENCY IN BUILDINGS EE Measures for Buildings



Source: UNIDO, renewable energy & energy efficiency partnership

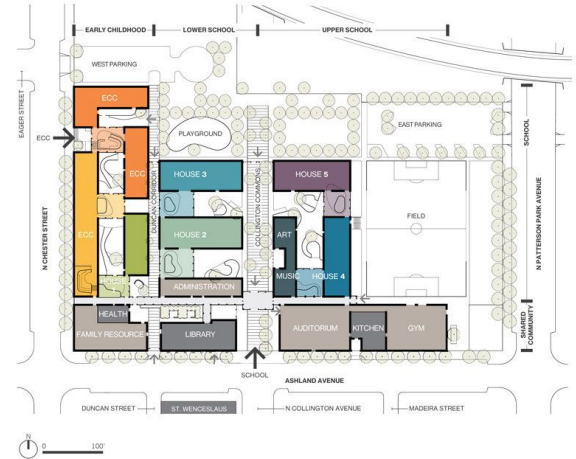
## 2024-2025 Projects

### New Master Facilities Plan

### Updated Facilities Assessments

- Will inform the next wave of energy efficiency projects

### District-Wide Energy Audit





## Upcoming Projects

- ★ Digital Controls at schools with analog devices
- ★ Hill Center Gym HVAC and LED lighting upgrade
- ★ 11 Distributed Generation Solar Projects
- ★ Additional Energy Efficient Lighting Upgrades (3-4 schools TBD)
- ★ Bi-Directional EV Chargers at schools (pilot locations TBD)
- ★ Participating in the State of MI K-12 Energy Efficiency Audit Program (district-wide)

# Summary of Impacts

**\$491,673**

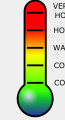
Projected first year saving -  
DG Solar Project Initiative



## Building Resilience & Comfort



Increased Resilience



Increased Thermal Comfort



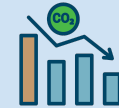
**4.5 Megawatts**

Projected clean renewable  
energy generation



**\$96,981**

Projected 1st year saving  
LED lighting upgrades



**256**

Projected Short Tons of  
pollutants eliminated  
from EV bus pilot

# Special Recognition



**“The Lansing School District is one of just 13 districts nationwide to be named a 2024 recipient of the U.S. Department of Energy’s 2024 Efficient and Healthy Schools program award”\***



\*Source: Lansing City Pulse

## Projected Next Steps

- ★ Leverage available capital within the district's budget
- ★ Maximize IRA Incentives and Bonuses
- ★ Maximize distributed generation revenue and credits
- ★ Explore GGRF Financing opportunities
- ★ Continue to apply for state and federal grants
- ★ Leverage Energy Bond
- ★ Incorporate green tech standards into future bond proposals when appropriate
- ★ Reinvest savings where possible

# Thank You

