Battery Energy Storage System Overview

Woodridge School District 68 | September 21st, 2026

Performance Services

Guaranteed Design | Guaranteed Outcomes | Guaranteed No Change Orders

Battery Energy Storage System (BESS)

- A BESS stores electrical energy in batteries for later use, allowing for power to be delivered when it is needed most

- The purpose is to generate revenue for the district and provide relief from capacity and transmission charges

Performance Services

Safety and Considerations

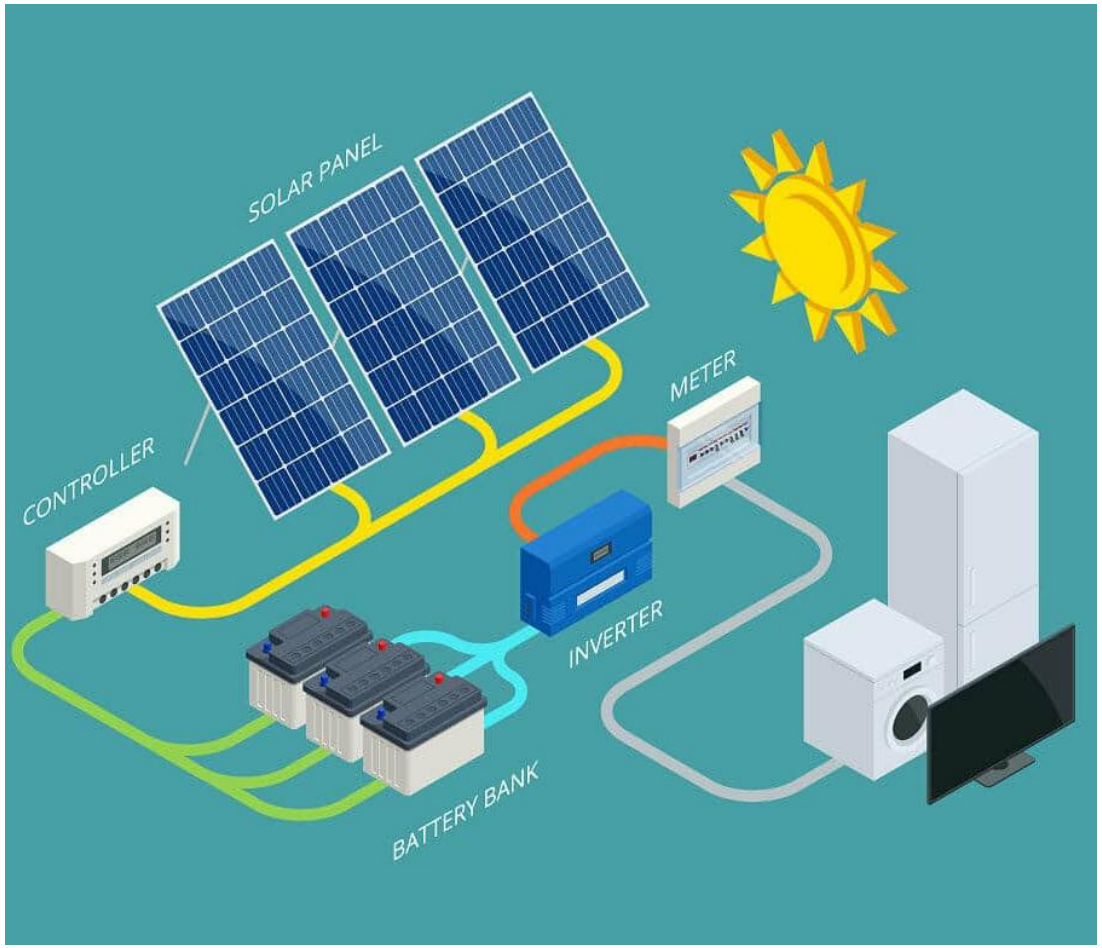
- BESS proposed has major safety certifications: UL 9540 and UL9540A
- BESS proposed has integrated battery management systems that are constantly monitoring the status of individual battery cells
- BESS needs to be 10 feet away from building or path of egress
- NFPA 855: Standards on how to safely install a BESS on site

Safety and Considerations Cont.

- Generac options include built-in aerosol fire suppression, smoke detectors and audible/visual alarms
- PSI will work with the local Fire Department to ensure they are comfortable with the installations and have an action plan
- Noise: Less than 70db at 3 feet away. Similar to hum of dishwasher.

Why Now?

- Tax credit went away for solar, but staying for batteries
- Battery technology has improved significantly
- Financial benefits in ComEd territory
  - ComEd Rebates
  - IL VPP
  - Frequency Regulation Program
- Already have solar installed at all buildings, next step for Woodridge is BESS systems



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Battery Storage is Established in K–12 Operations Nationwide

Operating examples span deployments from before 2019 through 2025 and emphasize bill savings and grid services.

Customer / school	Market	Deployed	Battery size	Manufacturer	Economic or grid-service use
Chino Valley SD, CA	**Non-PJM**	**2019**	100 kW / 190 kWh to 250 kW / 475 kWh per school 1.1 MW / 2.09 MWh total	**Tesla**	Retail peak reduction, CAISO day-ahead and real-time energy, and spinning reserves. Frequency regulation was simulated.
Wiseburn SD, CA	**Non-PJM**	**2025**	100 kW / 372 kWh each 400 kW / 1.488 MWh total	**Socomec HES L**	Dynamic economic dispatch for tariff and demand-charge savings.
MSD Wayne Township, IN	**Non-PJM**	**Nov. 2023**	120 kW / 258 kWh units 720 kW / 1.548 MWh total	**BYD CHESS**	Peak-demand targeting and utility-cost savings across six elementary schools.
Nauset Regional Middle School, MA	**Non-PJM**	**Apr. 7, 2023**	1.073 MWh	**Tesla**	ConnectedSolutions battery-program payments plus energy savings.
Acton-Boxborough Regional HS, MA	**Non-PJM**	**2021**	2 MW / 4MWh	**Enel**	Demand-charge management, demand response, and participation in ISO-NE capacity, energy, and ancillary-service markets
Ludlow-Taylor Elementary, DC	**PJM**	**2021**	129 kWh	**SimpliPhi Power**	Building-load and solar-export management. D.C. documentation identifies a grid-services role.

Evaluate: **Battery Energy Storage at Three Buildings Within the District**

- Three Buildings: Edgewood ES, Meadowiew ES, Thomas Jefferson JRHS.
- Buildings chosen due to their electrical load and available land.

Performance Services

Generac SBE Cabinet Size Comparison

Both configurations are 4.3 ft deep and 7.6 ft high. The overall length changes by configuration.

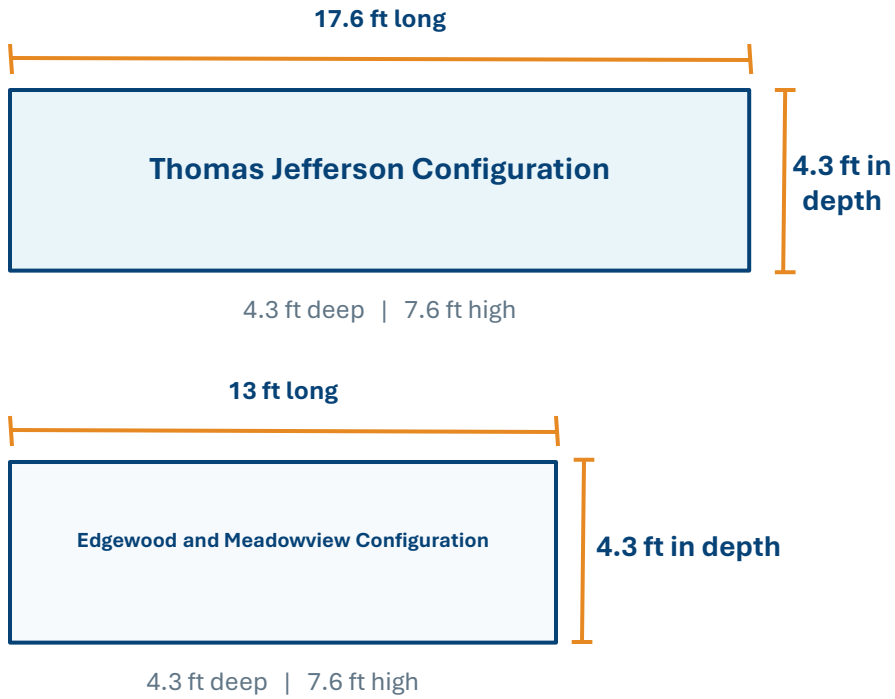
HEIGHT COMPARISON

Representative cabinet image

5 ft person

FOOTPRINT OPTIONS

Scaled plan view



The longer configuration adds 4.6 ft of length

Approximate visual scale. The cabinet photo uses perspective and is not an engineering drawing.

Edgewood ES

Budget Cost: $1.6M

Federal Incentive: $640,000

ComEd Battery Rebate: $172,000

Net First Year Cost: $788,000

Payback: ~7.5 Years

15 year cumulative savings: $2.6M

Performance Services

Meadowview ES

Budget Cost: $1.2M

Federal Incentive: $480,000

ComEd Battery Rebate: $172,000

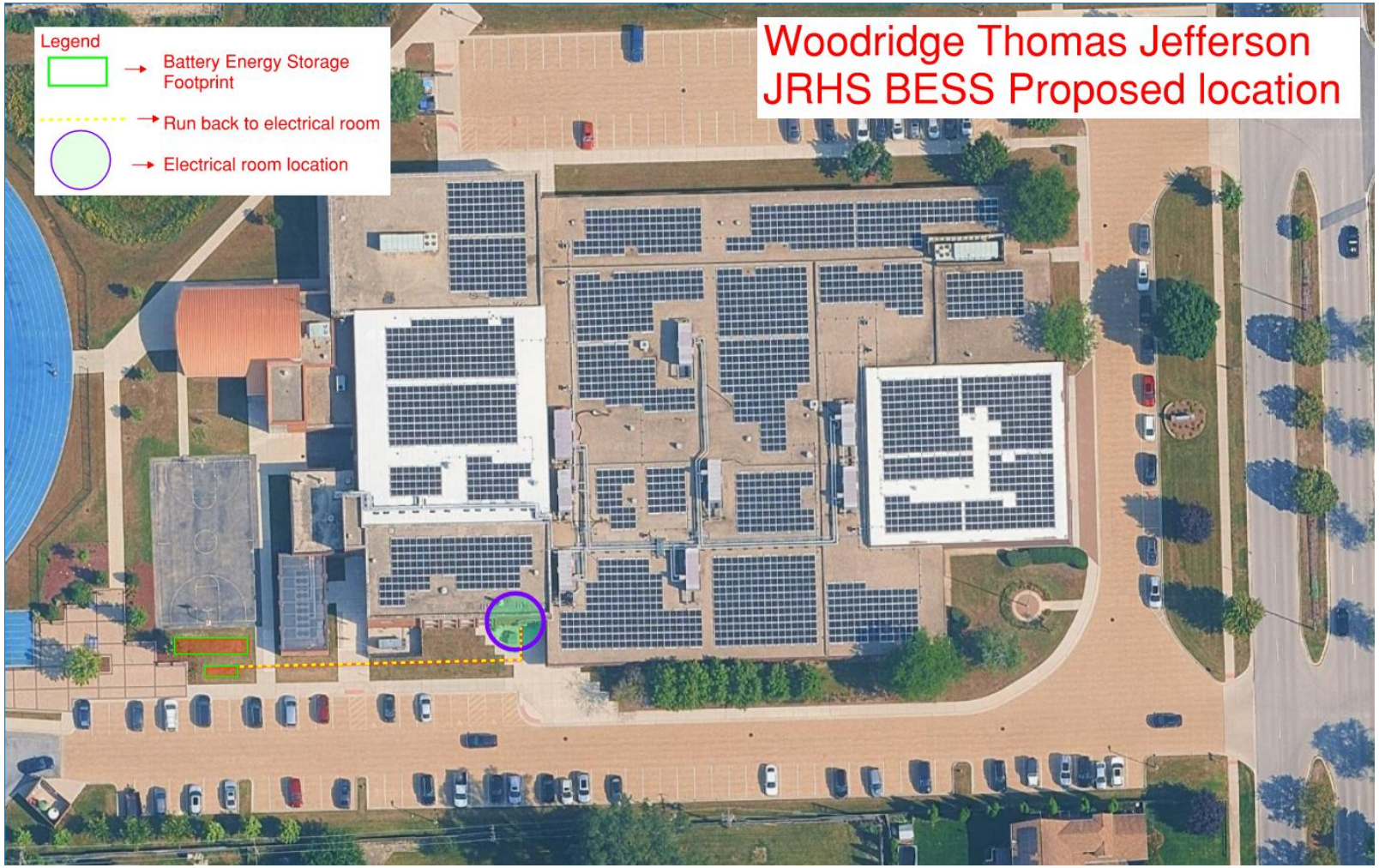
Net First Year Cost: $548,000

Payback: ~5.5 Years

15 year cumulative savings: $2.6M

Performance Services

Thomas Jefferson JRHS



Budget Cost: $2M

Federal Incentive: $800,000

ComEd Battery Rebate: $258,000

Net First Year Cost: $942,000

Payback: ~5 Years

15 year cumulative savings: $4.7M

Performance Services

QCells Omni Skid

1,250 kW / 5,100 kWh

OMNI SKID

Representative QCells Omni Skid image

APPROXIMATE 3D VIEW

36 ft × 10 ft × 8 ft

PRELIMINARY BUDGETS

Edgewood

$6M

3.5-year payback

Year 1 First Cost: $1,300,000

Meadowview

$5M

Slightly under 3 years

Year 1 First Cost: $820,000

Thomas Jefferson

$5.5M

Slightly under 3 years

Year 1 First Cost: $1,100,000

NOTES

- More engineering required to determine feasibility and cost.
- Significant electrical upgrades to occur.
- Risk of significant ComEd upgrades, both in terms of cost and time.
- 50% IRA credit assumed due to Domestic Content

Approximate visual scale. Dimensions and budgets supplied for planning purposes.

FREQUENTLY ASKED QUESTIONS

1. What type of emissions does a battery energy storage system produce?
2. How long will the batteries last before they need to be replaced?
3. Who is responsible for maintaining and monitoring the system?
4. Will battery performance decrease over time, and how does that affect our projected savings?
5. What happens to the batteries at the end of their useful life? Can they be recycled?

Performance Services

Generac SBE Cabinet: 250kW / 688 kWh

Qcells OmniSkid: Scalable Solutions

LOWERS ENERGY COSTS
Optimizes usage and reduces peak demand

SUPPORTS SUSTAINABILITY
Enables integration of clean energy

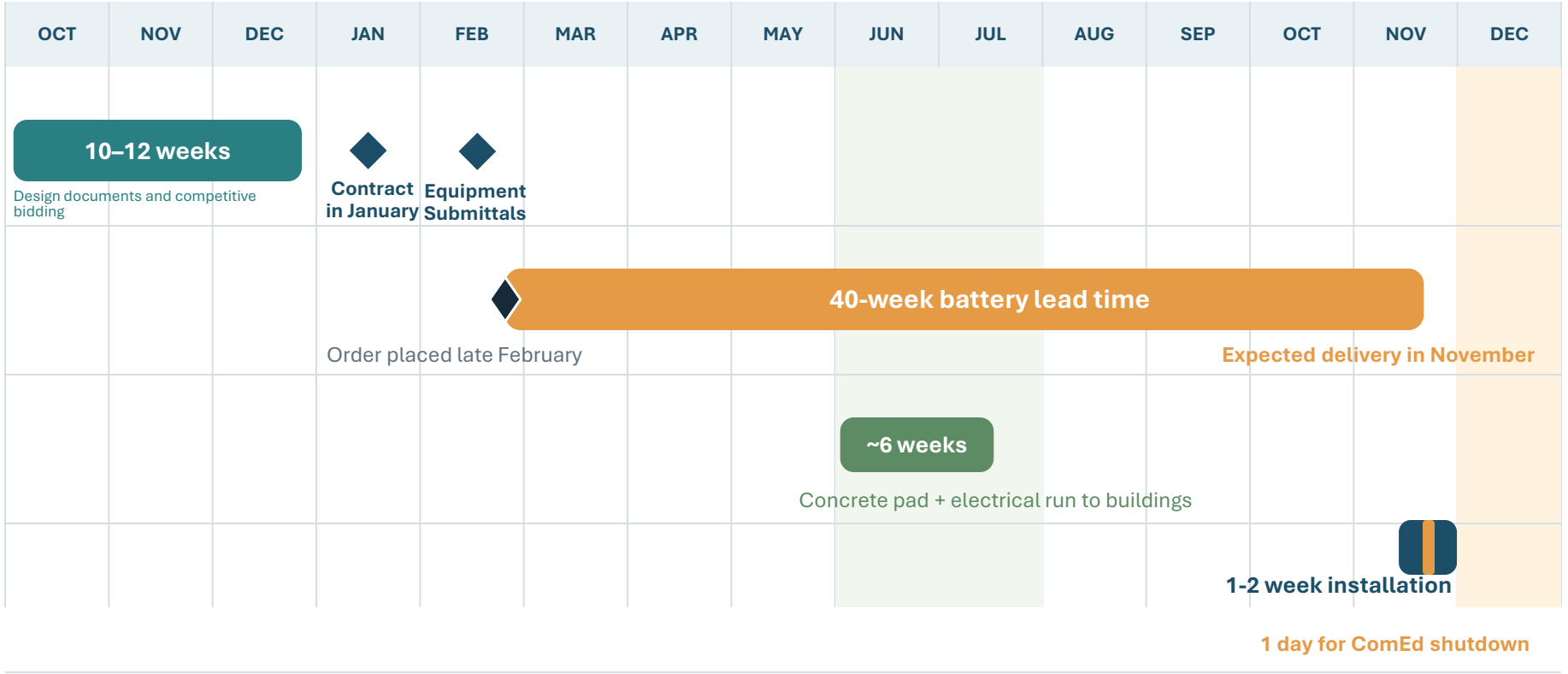
BUILT FOR SCHOOLS
Safe, reliable, and designed for your community

Battery Project Construction Timeline Illustration

An October design start and a late-February battery order drives a December 2027 installation window

TARGET INSTALLATION

November 2027



Major schedule dependency

1. **The overall project schedule depends heavily on ComEd's interconnection review, approval timing and shutdown availability along with battery lead time.**
2. **Start 10/1 with design in order to meet proposed schedule**

*Illustrative schedule based on current planning assumptions. Final installation timing remains contingent on ComEd's interconnection process.

Our Recommendation to District 68

Deploy Generac SBE battery systems at up to three buildings in the District

Recommended Platform
GENERAC SBE Cabinet

Thomas Jefferson JRHS

3x DC cabinets

500 kW Power | **1,032 kWh** Storage Capacity

Edgewood ES

2x DC cabinets

250 kW Power | **688 kWh** Storage Capacity

Meadowview ES

2x DC cabinets

250 kW Power | **688 kWh** Storage Capacity

Recommended Woodridge District 68 Portfolio

1,000 kW combined power

2,408 kWh combined storage

Benefits of a Generac BESS

- Small footprint
- Modularity
- Familiar American company

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