



# 2024-2025 Efficient and Healthy Schools Program

Program and Recognition Launch



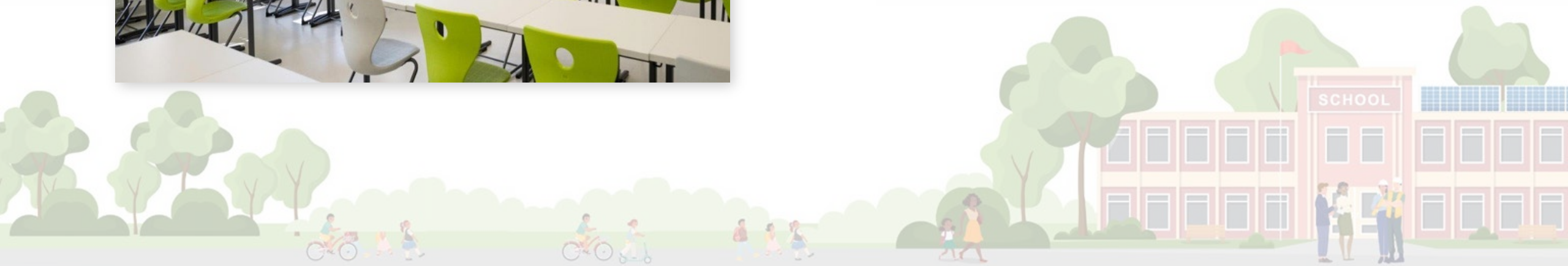
**EFFICIENT AND  
HEALTHY SCHOOLS**

# Efficient and Healthy Schools Recognition Launch

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- Webinar is being recorded
- All attendees are muted during this webinar
- Please enter questions into the Q&A
- Slides and recording will be sent out shortly after



# Agenda

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- 1 2024-2025 Efficient and Healthy Schools Program
- 2 Support through Technical Assistance
- 3 Apply for Recognition Opportunities
- 4 School District of Neillsville – Program Experience
- 5 Question and Answer Session

# Today's Presenters

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**Sydney Applegate**  
US Department of Energy



**Nate Allen**  
US Department of Energy



**Shannon Oliver**  
New Buildings Institute



**Lance Gregorich**  
School District of Neillsville





# The Efficient and Healthy Schools Program Team

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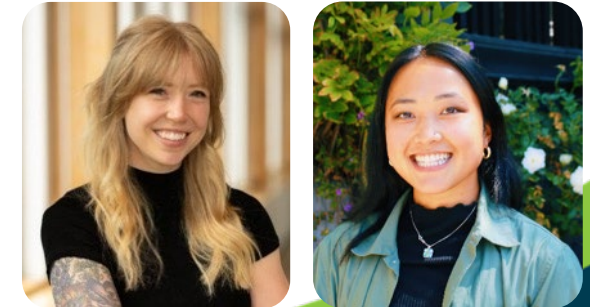
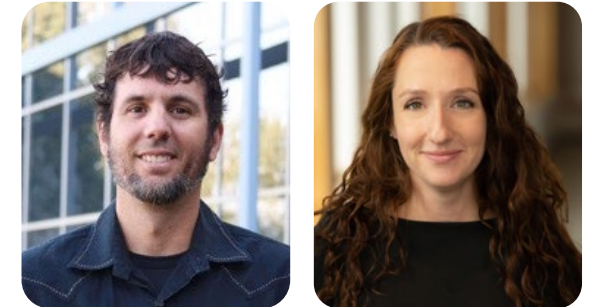
## U.S. Department of Energy



## Berkeley Lab



## New Buildings Institute





# 2024-2025 Efficient and Healthy Schools Program

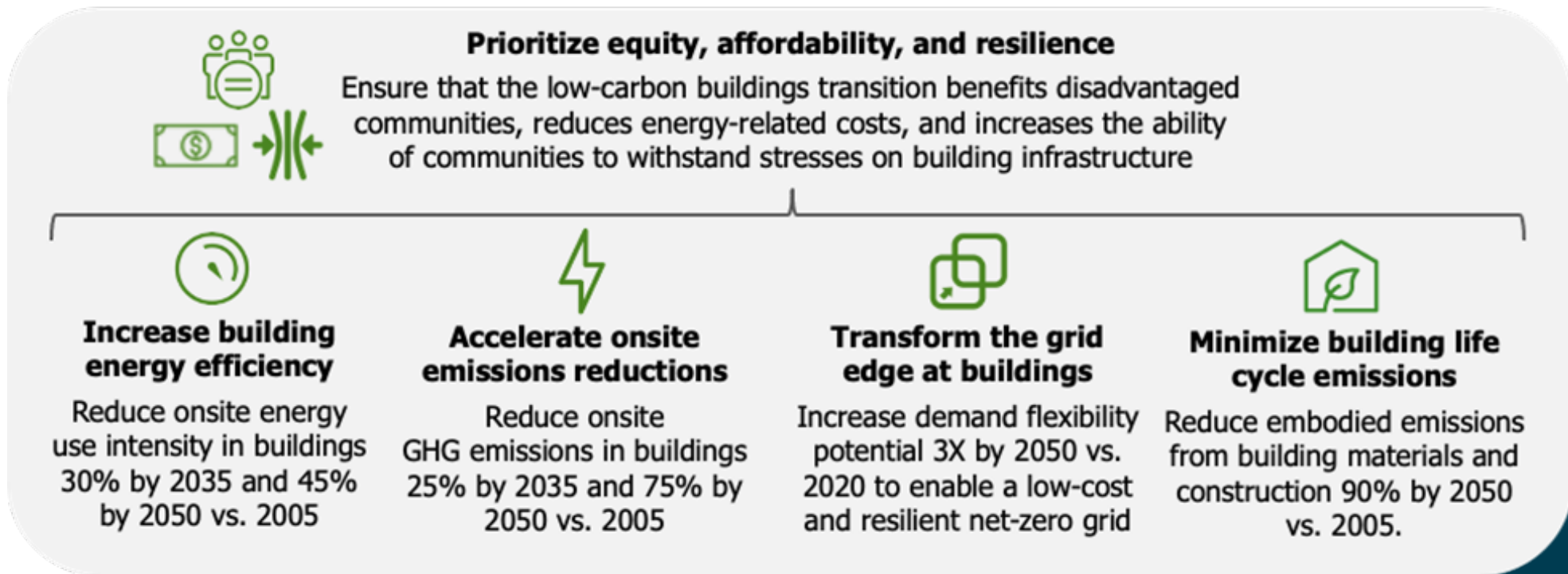
**Nate Allen**

Building Technologies Office  
US Department of Energy

# Alignment with DOE Priorities



**Reduce U.S. building emissions 60% by 2035 and 90% by 2050 vs. 2005 while enabling net-zero emissions economy-wide and centering equity and benefits to communities**







Aims to improve energy performance, advance resilience, and promote a **healthy learning environment** in schools.

Engages **K-12 schools**, especially those serving low-income student populations and in rural areas.

Provides **technical assistance** through direct consultations and **recognition** of exemplary school improvements.





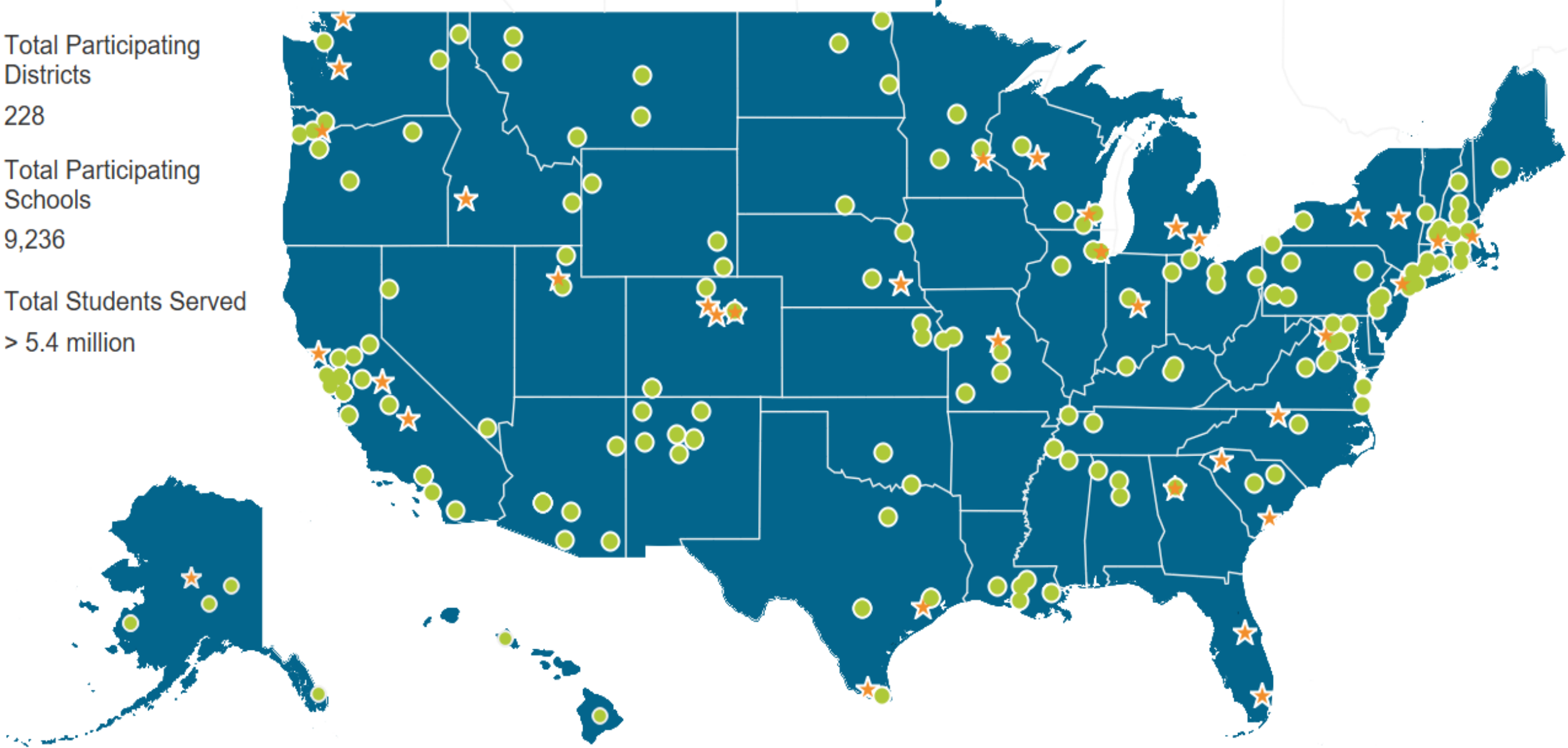
# Efficient and Healthy Schools Program Participants to date – September 2024

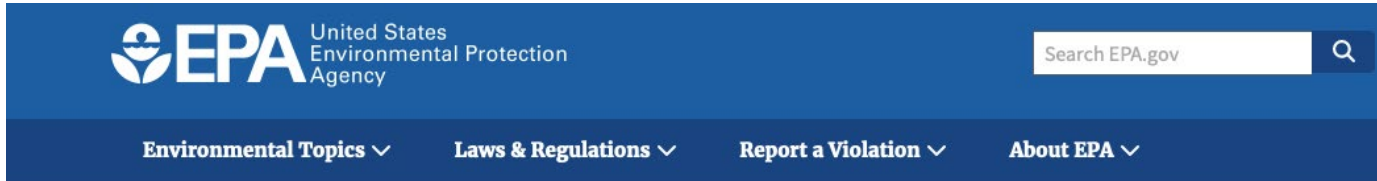
Honoree ★  
Participant ●

Total Participating  
Districts  
228

Total Participating  
Schools  
9,236

Total Students Served  
> 5.4 million





[CONTACT US](#)

## Creating Healthy Indoor Air Quality in Schools



[EPA Grant Funding to Address IAQ in Schools](#)



## [ENERGY STAR Certification for Buildings](#)

For existing commercial buildings that operate more efficiently than 75% of similar buildings nationwide

[ENERGY STAR Certification](#)

# Get Involved and Find Out More!

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- **Join** | [Healthy Schools \(lbl.gov\)](https://www.lbl.gov)
- **Subscribe** to the Efficient and Healthy Schools Program [Mailing List](#)
- **Resources** | [Healthy Schools \(lbl.gov\)](https://www.lbl.gov)

## KEY DATES

- [EHSP Topical Webinar](#)  
→ **November 14, 2024**
- Recognition Office Hours  
→ **December 12, 2024**
- Recognition application due  
→ **December 20, 2024**

For more information, email [schools@lbl.gov](mailto:schools@lbl.gov)



# 2024-2025 EHSP Program Details

**Shannon Oliver**  
New Buildings Institute



# Three ways to get involved

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## Join the Program

- National support network of best practices
- Free Technical Assistance
- One-on-one onboarding



## Support Schools

- Engage with active schools and districts
- Be listed on program website
- National network of leading organizations



## Gain Recognition

- National recognition
- Free Technical Assistance
- Onboarding and coaching

# Technical Assistance: Categories



## General Program Support

- Onboarding
- Identifying first steps & next steps
- Recognition submission assistance



## Energy management

- Benchmarking
- Building assessments
- Energy analytics
- Retro commissioning



## Goal Setting and Planning

- Develop district roadmap
- Facility planning & prioritization
- Documentation development: SOW, RFP, OPR



## Technologies and Systems

- EEM identifications: HVAC, lighting, water, kitchens
- Energy Management Information Systems (EMIS) & Controls
- Commissioning
- Performance verification



## Indoor Air Quality

- IAQ assessments and planning
- IAQ monitoring



## Decarbonization

- Electrification approaches
- Emissions reduction calculations



## Solar and Renewables

- Solar potential
- Program and funding opportunities



## Resilience

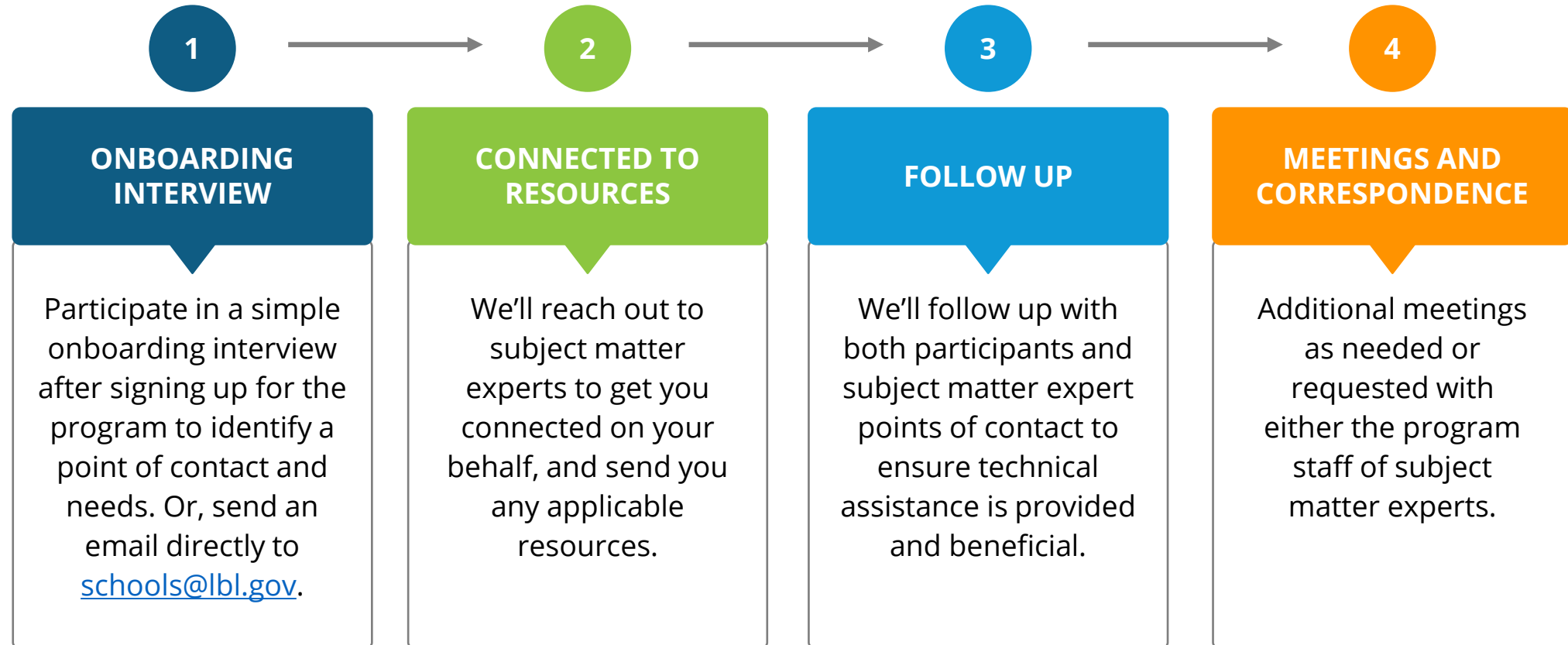
- Technical Resilience Navigator
- Approaches to manage emerging risks e.g., extreme heat, wildfire smoke



## Funding

- Identify federal, state, local and utility funding available
- Value proposition for funding pitch
- Performance based contracting

# Technical Assistance: Process



# Technical Assistance: Benchmarking

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- Identify underperforming schools/buildings in your district to target for efficiency improvements
- Identify best practices that are replicable across schools
- Set investment priorities to compare savings across buildings in your district to decide how to allocate capital and maximize financial returns in energy efficiency
- Verify savings through continuous tracking of energy over time
- Share and report performance, educate classes and the town/city about how the schools are performing
- Earn recognition by best performing school in the district or energy star certification (75 or higher)
- Benchmark more than energy, include water, waste, greenhouse gas emissions



# Technical Assistance: Tools and References

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## Quick Building Assessment Form and Tool

This tool provides identification of energy improvement opportunities, recommendations for energy efficiency measures, and associated health and safety benefits for various projects

## Third Party Needs Assessment

Use of a site audit or energy efficiency measure identification and impacts analysis as provided by a contractor (i.e., Energy Service Companies [ESCOs] or consultant).

## DOE Asset Score

This tool allows users to generate energy retrofit measure recommendations and energy savings estimates

<https://buildingenergyscore.energy.gov/>

## School Prototype and Retrofit Package

[https://www.energy.gov/sites/default/files/2022-11/Modeled%20Retrofit%20Package%20Performance%20for%20Prototype%20Schools\\_Nov2022.pdf](https://www.energy.gov/sites/default/files/2022-11/Modeled%20Retrofit%20Package%20Performance%20for%20Prototype%20Schools_Nov2022.pdf)

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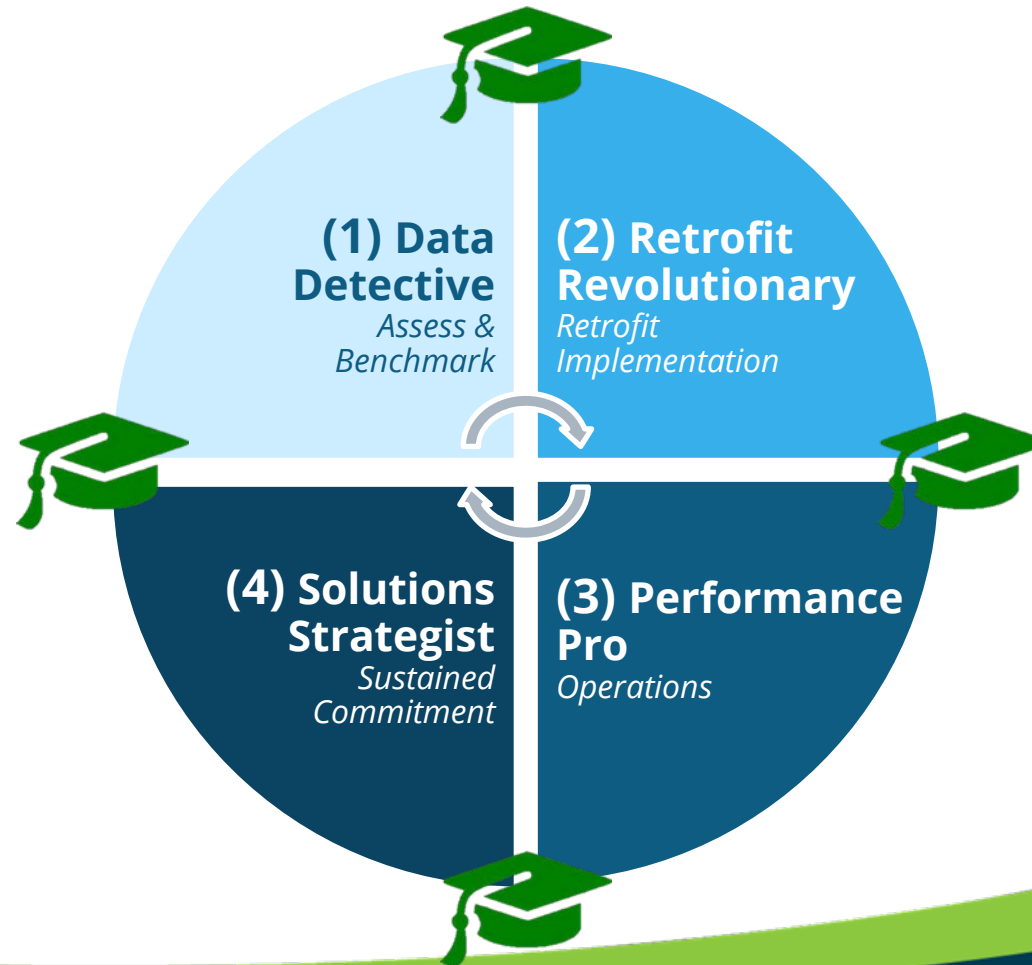
## Support Schools!

Our diverse group of supporters include contractors, manufacturers, state and regional agencies, community groups, nonprofit organizations, and more! If you are an organization implementing in energy performance or healthy learning environments that would like to join this list of organizations and show your support for the Program – [Join today!](#)

### Join the Teaming List

There is vast interest and opportunity for collaboration between school districts and industry experts willing to support them in meeting their energy goals. To facilitate such partnerships, and to help school stakeholders in the Renew America's Schools Program, the Efficient and Healthy Schools Program, the ESPC Campaign, and the Better Buildings/Better Climate Challenge connect and communicate, DOE is compiling a Teaming Partner List. [Join the Teaming Partner List](#) to let prospective partners know you are interested in working together. Please note that this is not an application for any DOE programs or campaigns.

# 2024-2025 Recognition Categories

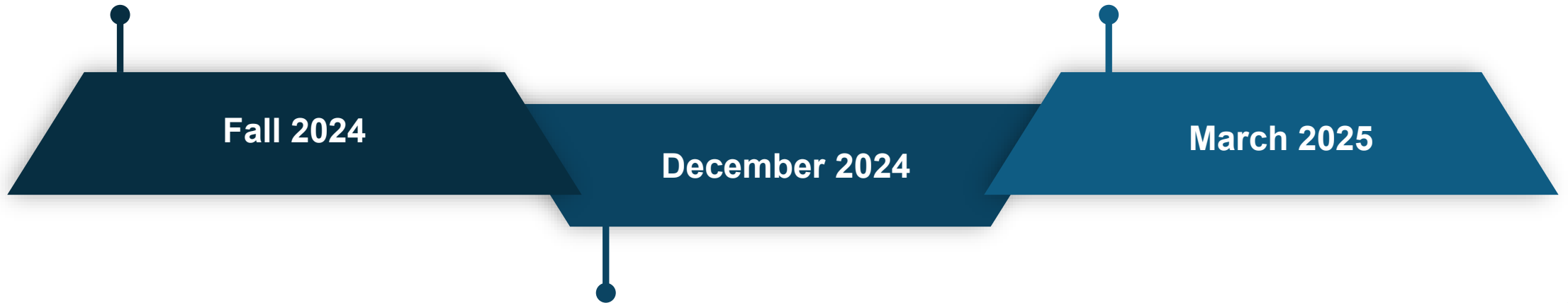


## Preparation

Interested schools and districts will fill out a recognition application and request assistance from the Program if needed.

## Announcement & Celebration

Schools and districts will be notified of recognition in January and will be invited to attend an in-person celebration in at the [Green Schools Conference](#) in March 2025.



Fall 2024

December 2024

March 2025

## Final Submission

Schools and districts will submit application and supporting materials by **December 20, 2024**.



# 2024-2025 Recognition Categories

## Data Detective

Honoring schools and districts that demonstrate best practices to prioritize school improvements through:

- Building assessments
- Benchmarking
- Utilizing building data



## Retrofit Revolutionary

Honoring schools and districts that showcase exemplary retrofit projects that improve and promote:

- Energy efficiency projects
- Resilience upgrades
- Healthy learning environments improvements



## IDEA Public Schools, TX

### Recognition highlights:

- Utilized ENERGY STAR (ES) Portfolio Manager to benchmark 3 schools and headquarter building; all 4 sites obtained ES Building Certification. District plans to pursue certification in an additional 25 sites.
- IDEA improved building operation identified from the assessments, resulting in energy reduction and improved indoor air quality.



**Data Detective**  
**Students: 80,000**  
**Schools: 143**



## Broward County Public Schools, FL

### Recognition highlights:

- Successfully leveraged bond, ESPC, and federal funding (ESSER), to initiate multi-system energy retrofits that will reach over 230 schools and more than 1,000 structures.
- An example of the initiative – SMART Program – implemented HVAC optimization and controls in 25 schools that resulted in 15% to 35% energy savings for each HVAC system.

### Retrofit Revolutionary

Students: 255,000

Schools: 329



# 2024-2025 Recognition Categories

## Performance Pro

Honoring schools and districts that strive for continuous improvement throughout the organization through:

- Operations and maintenance activities
- Performance evaluations
- Retro-commissioning activities



## Solutions Strategist

Honoring schools and districts that develop plans and make committed goals to improving their buildings that:

- Advance district-wide initiatives
- Set broad-reaching goals
- Include diverse stakeholder input



## Seattle Public Schools, WA

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### Recognition highlights:

- Maintained 4 FTE over 8 years to manage on-the-spot repairs and day-to-day operations of building automation system, including rapid response to COVID-19 ventilation recommendations.
- District's recommissioning team lowered site EUI by an average of 2.2 kBtu/ft<sup>2</sup>-yr. The team contributed to securing grant funding and integral of the district's Clean Energy Resolution passed in 2022.



**Performance Pro**  
**Students: 51,000**  
**Schools: 109**





## Lansing Public School District, MI

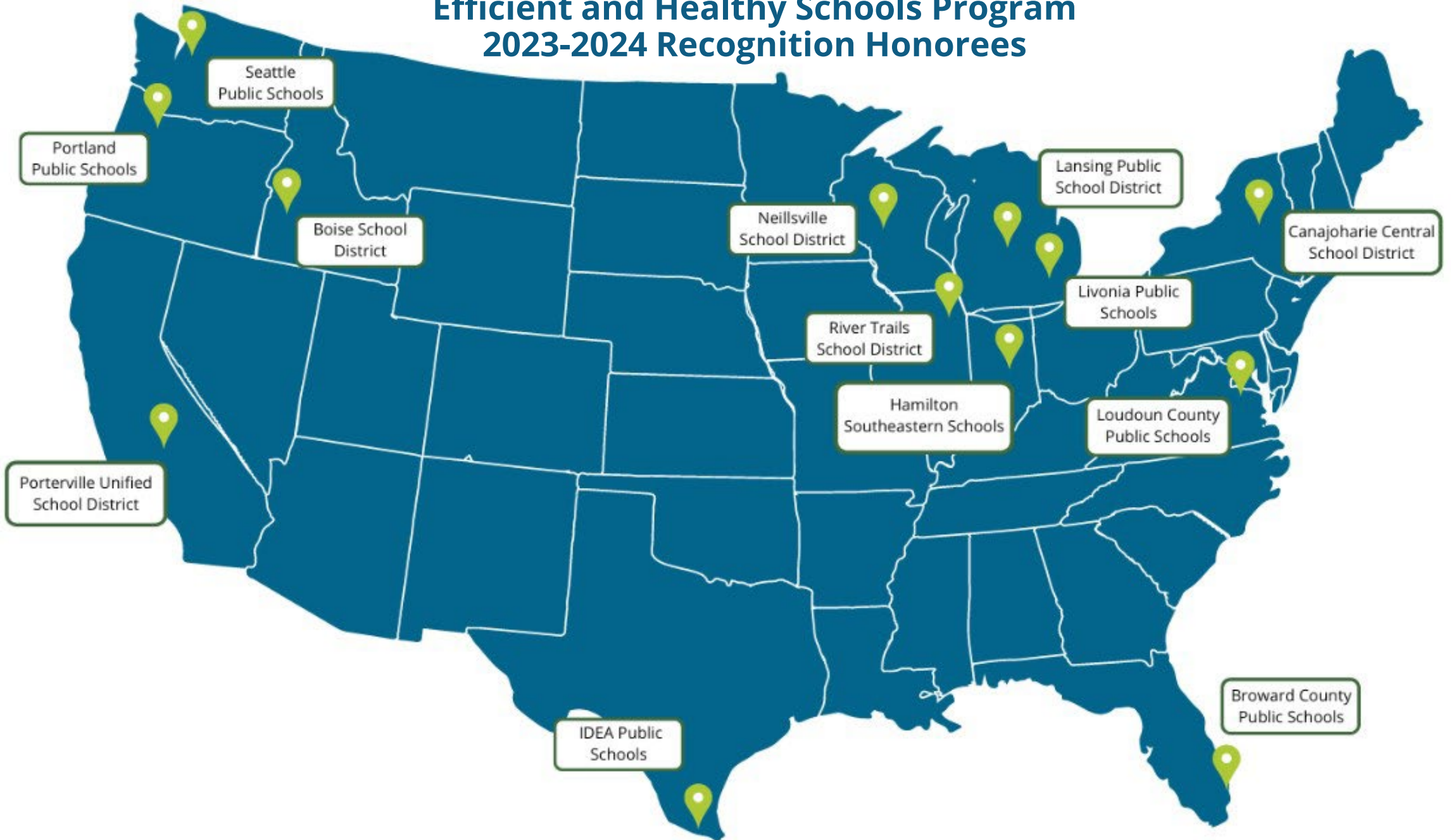
### Recognition highlights:

- District partnered with larger initiatives, such as Michigan Clean Cities, to update their design specifications to require renewable energy and energy efficiency measures.
- Student involvement is encouraged through an intern program and a newly launched energy careers pathway program.

**Solutions Strategist**  
**Students: 10,000**  
**Schools: 28**



# Efficient and Healthy Schools Program 2023-2024 Recognition Honorees





Apply for Recognition opportunities today!





# School District of Neillsville Program Experience

**Lance Gregorich**

Project Manager and Environmental Health and Safety Manager  
CESA 10 | School District of Neillsville



# SCHOOL DISTRICT OF NEILLSVILLE

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- Rural school district located in central Wisconsin
- 23-24 enrollment: 935
- 45.6% economically disadvantaged; 20% students with disabilities
- Below average revenue per pupil
- Home of “Chatty Belle” the World’s Largest Talking Cow
- Mentioned in Tommy Boy





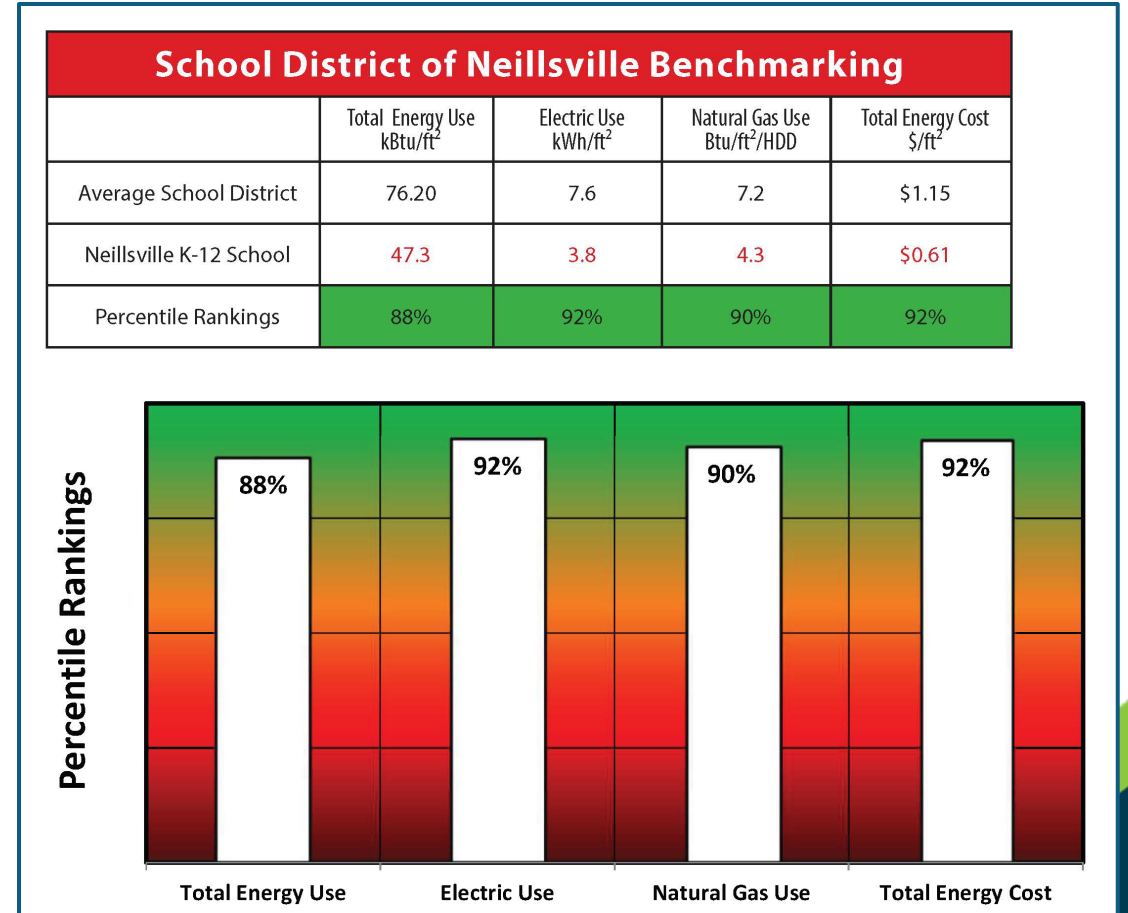
# OVERVIEW AND TIMELINE

- Main Issues: Deferred maintenance; aging infrastructure, inefficient equipment, staff and student complaints of poor indoor air quality
- Multi-year journey
  - 2021 – Energy benchmarking, facility audit, Fund 46 plan
  - 2022 – Project prioritization, financial planning, stakeholder engagement
  - 2023 – Phase 1 of projects, capital referendum
  - 2024 – Phase 2 of projects



# SCOPE OF WORK & IMPACT

- Energy efficient LED lighting
- Energy efficient windows
- Energy efficient VAV air handling unit
- IAQ testing; HVAC changes to address issues
- Removed aging unit vent systems
- Added wall insulation
- New kitchen and tech ed shop ventilation
- Pneumatic to DDC controls upgrade
- Upgraded piping for AHU and controls to utilize current chiller instead of purchasing an additional chiller
- Upgraded electrical distribution to allow for future expansion and renewable energy opportunities
- New efficient water fixtures
- Upgraded technology



# PROJECT PARTNERS

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- District staff, administration and school board members
- Financial planners
- Utility Representatives
- Architects and Engineers
- Local Contractors
- Environmental Health and Safety Consultants
- Project Managers
- Community Members

# KEY ASPECTS

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- Transparent communication between District, Architects, Engineers, Utilities, and Vendors
- Stakeholder engagement
- Continuous planning and budgeting
- Open, competitive bidding



## WHAT'S NEXT

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- Updating long-term plans and budgeting for future phases
- Exploring renewable energy opportunities





## Question & Answer

# THANK YOU – Connect with us!!

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- POLL
- Join | [Healthy Schools \(lbl.gov\)](https://www.healthy-schools.org/)
- Subscribe to the Efficient and Healthy Schools Program [Mailing List](#)
- Resources | [Healthy Schools \(lbl.gov\)](https://www.healthy-schools.org/)

**Apply for  
recognition  
today!**

