



Federal Programs and Technical Assistance for Schools

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Introductions



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EPA's ENERGY STAR Tools and Resources



energystar.gov/k-12

- Portfolio Manager
- Data Explorer
- Cash Flow Opportunity Calculator
- Building Emissions Calculator
- Competition Guide
- Treasure Hunt Checklists
- ENERGY STAR certification
- Decarbonize your Design
- Online help/training/TA
- ENERGY STAR Product Rebate Finder
- ...and more!



Management Tool



Assess whole building energy and water consumption, plus waste



Track green power purchase



Share/report data with others



Track changes in energy, water, greenhouse gas emissions, and cost over time



Create custom reports



Apply for ENERGY STAR certification, meet IAQ standards



Hundreds of metrics, including:



Energy use Source, site, weather normalized, demand



Water use
Water use
intensity,
Water Score
(for Multifamily)



Waste & Materials
Waste intensity,
diversion rate



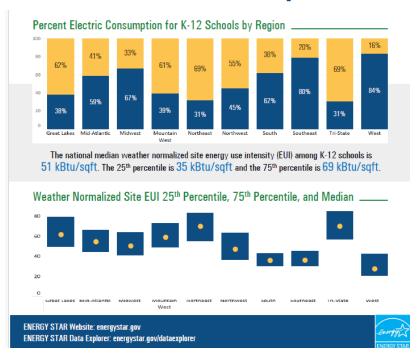
1-100 ENERGY STAR score

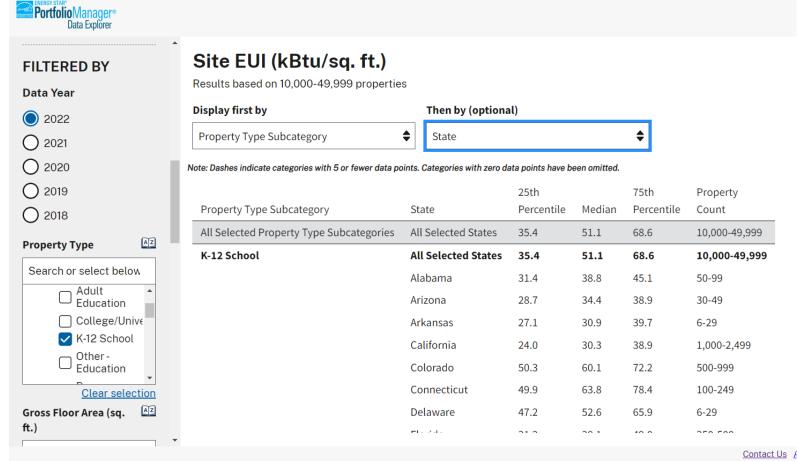


GHG emissions Indirect, direct, total, avoided

ENERGY STAR® Portfolio\/a

Portfolio Manager® Data Explorer





energystar.gov/dataexplorer

Renew America's Schools Funding



New competitive grant program for energy improvements at public school facilities.



Cover capital costs of improvements in school facilities and capacity building.

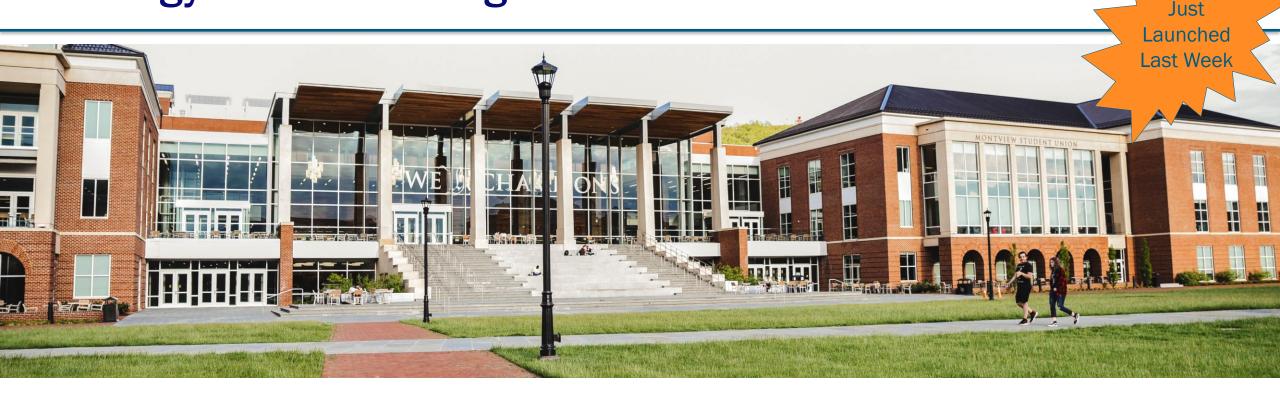


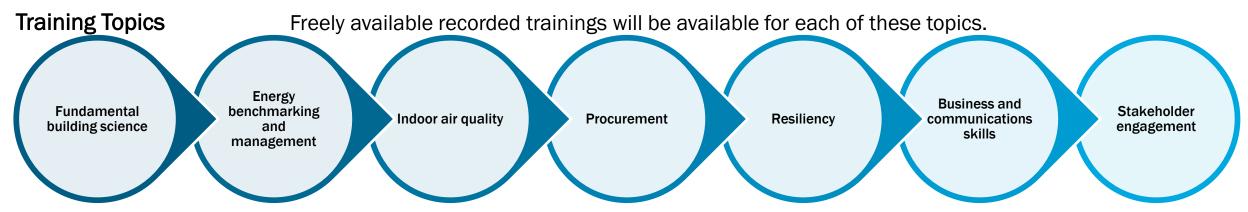
Improvements, repairs, or renovations that reduce energy costs or lead to improved teacher and student health and achieve energy savings, installation of renewable energy, installation of alternative fueled vehicle (AFV) infrastructure, and purchases or leases of AFV. \$500 million available over five years, with second round of selectees' announcement anticipated in August 2024.



Sign-up for updates for the renew America's Schools Program https://www.energy.gov/scep/renew-americas-schools

Energy CLASS Trainings

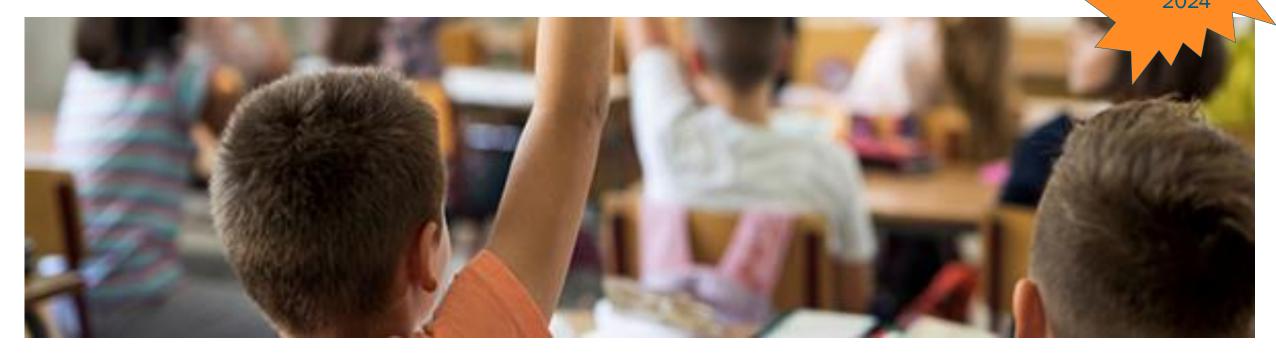




Energy CLASS | Healthy Schools (Ibl.gov)

Energy CLASS Cohort Program

Apply Fall 2024



Be Part of the Next Energy CLASS

Apply to join other school districts for facilitated monthly discussions about the Energy CLASS trainings, peer learning opportunities, and more dedicated support.

Efficient and Healthy Schools Program





aims to improve energy performance, reduce carbon emissions, and promote a healthy learning environment in schools.

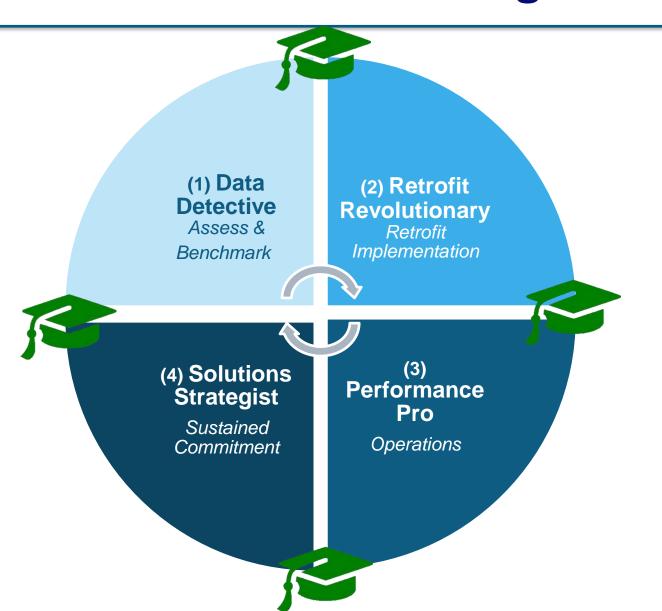
engages K-12 schools, especially those serving low-income student populations and in rural areas.

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



Technical Assistance to Recognition Cycle

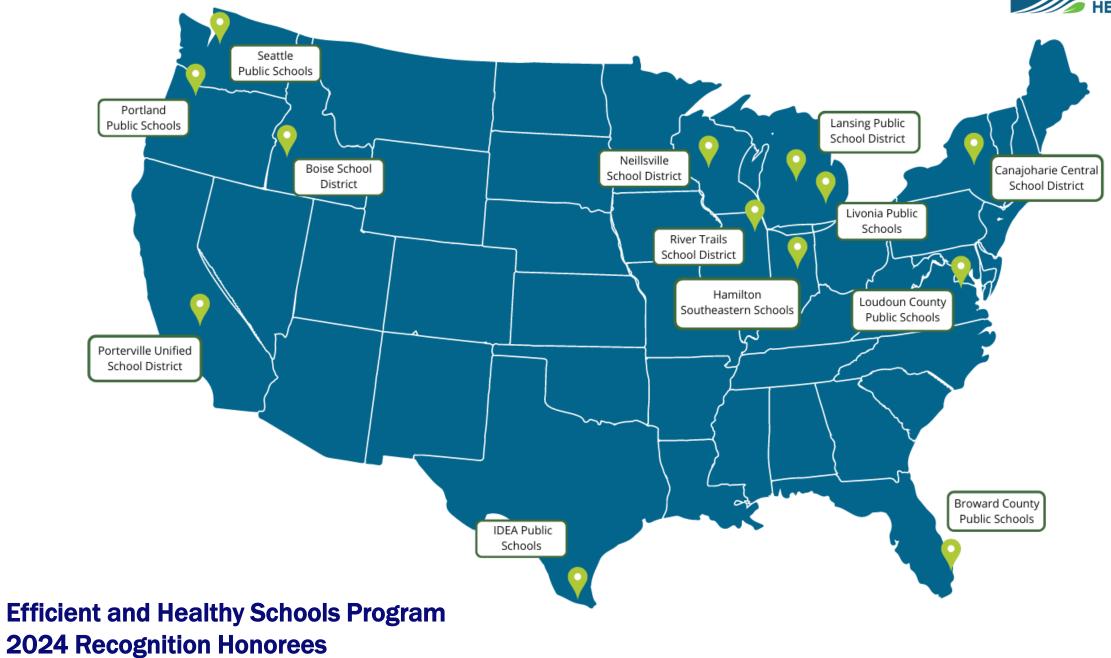




All Phases Offer

- Tangible TA menu administered all year long by LBNL & NBI
- Peer-learning in cohorts of districts facilitated by NBI
- Mentorship from willing phase or cycle graduates
- Financing & funding development
- Packaged resource sharing by NBI





What is Technical Assistance?

Personalized and tailored support and resources from subject matter experts in multiple categories, relevant to either implementation or planning efforts within schools or districts.

Technical Assistance: Categories





General Program Support

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



Energy Management

- Benchmarking
- Building assessments
- Energy analytics
- Retrocommissioning



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



1 2 - 3 - 4

ONBOARDING INTERVIEW

CONNECTED TO RESOURCES

FOLLOW UP

MEETINGS AND CORRESPONDENCE

Participate in a simple onboarding interview after signing up for the program to identify a point of contact and needs. Or, send an email directly to schools@lbl.gov.

We'll reach out to subject matter experts to get you connected on your behalf, and send you any applicable resources. We'll follow up with both participants and subject matter expert points of contact to ensure technical assistance is provided and beneficial.

Additional meetings
as needed or
requested with
either the program
staff or subject
matter experts.

Technical Assistance: Methods





1-1 Coaching

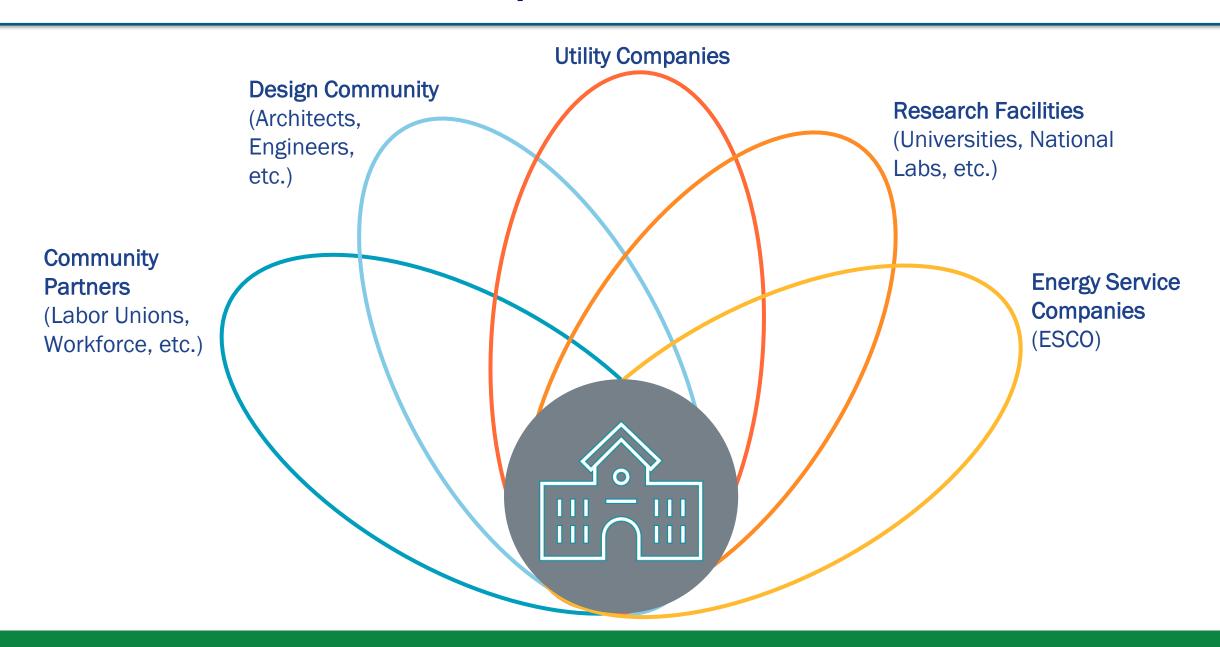
- Document review to provide independent assessment of project plans, or suggestion to improve planning documents such as energy goals, retrofit plans, IAQ improvement plans
- Talk through strategies to improve energy efficiency, health, and resilience



Resource Connections

- Connect schools with partnering agencies EPA (IAQ, ENERGY STAR® Portfolio Manager®), ED (Green Ribbon Schools)
- Point schools to funding fed (ESSER, DOE grant), state, local, utility incentives, ESCO, etc.
- Connect schools with subject matter experts
- Provide a list of relevant technical resources (e.g., tools & guides, webinars)

The Power of Partnerships



The Power of Partnerships

Energy Service Company (ESCO)

energy conservation measures, estimated savings, and implementation costs. ESCOs can also provide financing options through Energy Savings Performance Contracts (ESPCs).

University Partner

University partners can be a great asset to K-12 schools by assisting with energy benchmarking, facilitating the development of new partnerships for energy audits and proposal development.

Community-Based Organization

Partnering with local community organizations can provide critical support in areas like project management, financial administration, workforce development, and more.

Utility Partner

Utility partners bring experience in managing local energy service projects and can provide net-zero financing options through Energy Performance Contracts with low or no upfront costs to LEAs.

Find your partner

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.







TITLE 17
State Energy
Financing Institution

(SEFI)-Supported Projects (1703)

State Energy Financing Institution (SEFI) Projects (1703)

SEFI projects support deployment of a qualifying clean energy technology and receive meaningful financial support or credit enhancements from an entity within a state agency or financing authority.

SEFI projects are <u>not</u> required to employ innovative technology.





SEFI Opportunity – What is a SEFI?

"State Energy Financing Institution," or "SEFI," is an LPO designation for a State entity that provides financial support to energy projects.

Potential SEFIs with Examples of Approved SEFIs



State Energy Offices

Ex. Pennsylvania Energy Development Authority



Housing Finance Agencies

Ex. Washington State Housing Finance Commission



Green Banks

Ex. Connecticut Green Bank



Economic Development Authorities

Ex. Alaska Industrial Development and Export Authority



Energy Funds/Lending Centers

Ex. Maryland Clean Energy Center



Other State Agencies

Ex. Ohio Air Quality Development Authority

What state agencies or quasi-public entities fund energy projects in your state?





Join Efficient and Healthy Schools Program



Join | Healthy Schools (Ibl.gov)

Subscribe to the Efficient and Healthy Schools Program Mailing List

Resources | Healthy Schools (lbl.gov)

For more information email Sydney Applegate at Sydney.Applegate@ee.doe.gov

ESPC Campaign Overview



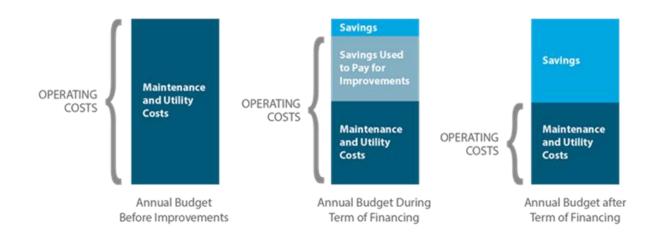
The Energy Savings Performance Contracting (ESPC) Campaign engages states, local governments, school districts, universities and colleges, hospitals, and other market stakeholders to:

- > Support the use of performance contracting to increase efficiency, modernize public buildings, reduce utility expenses, increase resilience, and meet lead-by-example goals
- > Share and Leverage Practical Resources to strengthen ESPC and measurement & verification (M&V)
- > Amplify and Implement Best Practice Approaches for ESPC projects and programs
- Demonstrate Impact with measured and verified energy and cost savings
- > Showcase Achievements and share examples of successful ESPC implementation

An ESPC Primer

- Energy Savings Performance Contract (ESPC)
- Proven, budget-neutral contracting and financing method for public sector building owners
- Supports energy and water efficiency, renewable energy projects, and other upgrades in public facilities
- Projects are contracted to an energy service company (ESCO)
- ESCO guarantees the energy savings, making up any shortfall
- Projects funded and/or financed by customer and <u>repaid with cost savings</u>

Organizations can pay for today's building upgrades with tomorrow's guaranteed energy savings with ESPC



With an ESPC, for every \$1 leveraged
(from grants or tax incentives,
for example),

1.3 - 2.1x in scope can be added to the
project.

ESPC Benefits



Extend the capabilities of existing budgets



Tackle deferred maintenance and avoid disruption from equipment failure



Improve indoor environment: air quality, lighting, temperature control, and productivity



Stop the waste of energy dollars



Reduce emissions of carbon dioxide, sulfur, and other pollutants



Increase resilience for reliable use of community facilities



Create jobs and supports local economic development

ESPC Campaign Resources



ESPC Campaign resources

- ✓ Expert-led Training
- √ Topical Webinars
- ✓ Peer Exchange Opportunities
- ✓ "Ask-an-Expert" Office Hours
- **✓** Resource Library

Support the following outcomes

- Build ESPC knowledge and technical capacity
- Maximize the impact of available funds
- Replicate lessons in your own projects to increase efficiency, address deferred maintenance, improve resiliency, and reduce emissions
- ☐ Demonstrate impact with M&V savings
- Receive recognition for exemplary projects and achievements

Demonstrate Impact



- DOE's <u>eProject eXpress</u>, enables streamlined ESPC project tracking and measurement & verification reporting
 - Secure, free-to-use, web-based platform
 - Enables program administrators and project owners to:
 - Communicate the ongoing impacts of their projects and programs
 - Save time and effort, and have all key project information readily accessible when needed
 - Track and quickly report project costs, measures implemented, estimated and guaranteed energy

& cost savings, job and GHG impacts, and more!



Electric Demand Savings (\$)Fuel Savings (Units, \$)Water Savings (kGal, \$)

Electricity Savings (kWh, \$)

- ✓ GHG Savings (tons)
- ✓ Operational and Maintenance Savings (\$)
- ✓ Total Project Cost Savings (\$)
- ✓ And More!

The ESPC
CAMPAIGN GOAL
is for partners to
collectively achieve
\$1 BILLION in
measured and verified
savings by 2030

Recent & Upcoming Opportunities



- Webinar: <u>ESPC Lessons from a Sustainability Practitioner in K-12</u>
- Webinar: <u>Unlocking School Improvements: Leveraging ESPC to Maximize District Funds</u>
- Training: Intro to ESPC A High Value Tool for Public Agencies
- Training: <u>Setting the Stage for Success: Best Practices for ESPC Planning and Procurement</u>

Upcoming Training (August 15): <u>Getting Started with eProject eXpress</u>

Join the ESPC Campaign



Campaign Leaders

State Energy Offices
or other state
organization with an
ESPC technical
assistance program

ESPC Champions

State agencies, local governments, K-12 school districts, hospitals, and others

Supporters

Market stakeholders
(e.g., nonprofits,
industry associations,
ESCOs, owner's
representatives, etc.)

- 1. Visit the ESPC Campaign website
- 2. Complete the Expression of Interest form to obtain a Partner Agreement
- 3. Subscribe to the **ESPC Campaign Newsletter**
- 4. For more information, email ESPCcampaign@hq.doe.gov

Call to Action



Stay Connected

Subscribe to ENERGY STAR® Program Mailing List

Sign-up for updates for the Renew America's Schools Program

Subscribe to the Efficient and Healthy Schools Program Mailing List

Subscribe to the ESPC Campaign Newsletter



Find Resources

ENERGY STAR®
Portfolio Manager®
Data Explorer

ENERGY STAR K-12 School Tools and Resources

Resources | Healthy Schools

Energy Savings
Performance
Contracting (ESPC)
Toolkit



Join







Contacts



Renew America's Schools
+ Energy CLASS

Schools@hq.doe.gov





ENERGY STAR for States and Schools

statelocal@energystar.gov



Technical Assistance + Efficient and Healthy Schools

Schools@lbl.gov



ESPC Campaign

ESPCcampaign@hq.doe.gov