1. **LIGHTING.** Choose efficient lighting sources and occupancy controls such as LEDs, high performance T5 or T8 fluorescents with electronic ballasts, CFLs, pulse start HID, induction and LED exit signs.

2. **HUMIDIFICATION SYSTEMS.** Evaluate humidification needs, decommission building-wide humidification, and humidify delicate collections only with passive non-steam system or room humidifier.

3. **TEMPERATURE SETBACKS.** Use automatic or manual controls to adjust temperature settings and system operation according to time of day and building loads.

4. **COMPUTER POWER MANAGEMENT.** Enable sleep or hibernation of both the monitor and central processing unit when not in use.

5. **VENDING OCCUPANCY CONTROLS.** Install vending occupancy controls to decrease unnecessary vending machine run-time.

6. **VENTILATION.** Modulate ventilation rates based on occupancy with demand control ventilation. Consider ventilation heat recovery to pre-condition fresh air.

7. **HEATING.** Tune up existing equipment. Use high efficiency boilers and furnaces of 92% efficiency or better.

8. **COOLING.** Use high efficiency air conditioning equipment with an outdoor air economizer. Tune up existing equipment.

9. **ELECTRIC MOTOR CONTROL.** Use variable frequency drives on electric motors with variable loads.

10. **ENERGY MANAGEMENT PLAN.** Develop a long-term energy management plan.

After implementing all of these, consider renewables such as solar and wind.

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**WHAT WE DO**

- Quick advice
- Benchmarking
- Long-term energy planning
- Energy assessments
- Economic analysis
- Energy incentive guidance
- Implementation assistance

**ENERGY SAVINGS BY THE NUMBERS**

How much have libraries saved by working with SEDAC?

- Number of energy assessments: 84
- Square feet assessed: 3.4M
- Total kWh savings: 11.1M
- Total therm savings: 370,000
- Total cost savings: $1.3M
- Average percentage total energy savings: 30%

**TOP 10 SEDAC TIPS FOR LIBRARIES**

1. **LIGHTING.** Choose efficient lighting sources and occupancy controls such as LEDs, high performance T5 or T8 fluorescents with electronic ballasts, CFLs, pulse start HID, induction and LED exit signs.

2. **HUMIDIFICATION SYSTEMS.** Evaluate humidification needs, decommission building-wide humidification, and humidify delicate collections only with passive non-steam system or room humidifier.

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**WHO WE ARE**

The Smart Energy Design Assistance Center (SEDAC) has provided technical assistance and support to over 80 libraries across Illinois, helping them become more energy efficient. Partner with SEDAC to discover how your library can save energy and money.

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**SMART ENERGY DESIGN ASSISTANCE CENTER**

www.sedac.org | 800.214.7954 | info@sedac.org
1. **GET INSPIRED.** Saving energy leads to environmental and economic benefits. Check out SEDAC case studies to see how counties are saving energy.

2. **GET BUY-IN.** Implementing energy efficiency requires staff time, financial investment, and facility modifications. Commitment from management and buy-in throughout the organization are critical for enduring success.

3. **CONSULT WITH AN EXPERT.** Contact SEDAC for quick advice, in-depth technical analysis, and referrals to other organizations and programs.

4. **BENCHMARK.** Work with SEDAC to understand how much energy your building uses, compared to other similar buildings in similar climates.

5. **GET AN ENERGY ASSESSMENT.** Walk through your facility, inspecting areas and equipment to identify problems. A SEDAC energy assessment can provide a list of solutions to make your building more efficient.

6. **PRIORITIZE SOLUTIONS.** Start by implementing the solutions that will achieve high energy savings at low cost and that will have the greatest long-term impact. SEDAC can provide comprehensive economic analysis, assist you with long-term energy planning, identify incentives, and offer implementation assistance.

7. **EVALUATE PROGRESS.** Gather energy data to determine if actions taken have led to energy savings. SEDAC can provide historic bill analysis.

8. **SCHEDULE REGULAR MAINTENANCE.** Create and follow a maintenance schedule for HVAC systems, lighting and envelope. See SEDAC’s Operations and Maintenance and Energy Tune-up Tech Notes for more information.

9. **STAY CURRENT.** Learn about the latest energy-saving solutions by attending SEDAC workshops and webinars and accessing SEDAC’s online resources.

**WHAT OUR CLIENTS ARE SAYING**

“Working with SEDAC was simple and everyone there was very friendly and helpful. They were able to offer a wide range of project options that would allow us to save significant amounts in energy costs. We were able to immediately implement a number of their recommendations and we saw an immediate reduction in both natural gas and electricity usage near 30%.”

– Ian Peery, Director of Buildings and Grounds, Glenside Public Library

“SEDAC is fantastic! I really appreciate having SEDAC’s expertise as a resource.”

– Normal Library Director, Brian Chase

**LIBRARIES WE SERVE**

SEDAC has provided assistance for public libraries in the following cities and more:

- Chicago
- Morrison
- Evanston
- LaGrange
- Aurora
- Algonquin
- DeKalb
- Peotone
- Roselle
- Naperville
- Sauk Village
- Villa Park
- Cicero
- Crete
- Niles
- Orland Park
- Wheaton
- Oak Park
- Glendale Heights
- Northlake
- Warrenville
- Schaumburg
- Palos Heights
- Frankfort
- Forest Park
- Wheaton
- Lyons

**INFORMATION CENTER**

Go to [sedac.org/library-resources](http://sedac.org/library-resources) for case studies, success stories, energy savings tips and more.

SMART ENERGY DESIGN ASSISTANCE CENTER

www.sedac.org | 800.214.7954 | info@sedac.org