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. **AIR SEALING.** Perform air sealing of the building envelope at all joints, penetrations, windows and doors, especially at the top and bottom of the building where most air exits and enters.

3. **COMMISSIONING.** Commission or retro-commission HVAC. Tune up direct digital controls or pneumatics, check equipment schedules, sensors, actuators, BAS settings and more.

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

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

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

7. **VENTILATION.** Modulate ventilation rates based on occupancy with demand control ventilation. Consider ventilation heat recovery to precondition fresh air.

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

9. **INSULATION.** Insulate beyond code: walls to at least total assembly R-20 and roofs to at least total assembly R-32.

10. **GLAZING.** Use low-E, gas filled windows with U-values equal to or less than 0.35. Recommended maximum Solar Heat Gain Coefficient is 0.38.

After implementing all of these, consider renewables such as solar and wind.
1. **GET INSPIRED.** Saving energy leads to environmental and economic benefits. Check out SEDAC case studies to see how Illinois facilities 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, 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.

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**WHAT OUR CLIENTS ARE SAYING**

“SEDAC has been a vital resource in helping us identify ways to save energy and reduce our utility costs, as well as effectively plan our 5 and 20 year capital improvement work plan.” — J.W. Croft, Field Museum

“SEDAC is fantastic! I really appreciate having SEDAC’s expertise as a resource.” — Brian Chase, Normal Public Library

“As a small county, we did not have the technical expertise on staff to undertake these types of projects without the help of SEDAC. As a result of their assistance, we have saved thousands of dollars in our utility bills which has helped our financial situation immensely.” — Jan Schumacher, Logan County Board

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**INFORMATION CENTER**

Go to [sedac.org](http://sedac.org) to learn how to save energy and money. You will find:

**ONLINE TRAINING MODULES**

- Energy assessments
- Designing beyond code
- Energy efficient new construction

**PRESENTATIONS**

- Current energy efficiency incentives
- Green technology and sustainability
- LEED and green buildings
- Reducing energy footprint

**PUBLICATIONS**

- Fact sheets highlighting energy savings opportunities for different building types
- New construction fact sheets
- Tech Notes on energy solutions
- Case studies on energy savings successes
- Monthly newsletters

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**SEDAC’S STEPS FOR ENERGY SUCCESS**

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