WHO WE ARE

The Smart Energy Design Assistance Center (SEDAC) has provided technical assistance and support to nearly 200 park districts across Illinois. Facilities we’ve served include gymnasiums, pools, ice arenas, arboretums, community centers, office buildings, nature centers, and more. Partner with SEDAC to discover how your park district can save energy and money.

WHAT WE DO

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

ENERGY SAVINGS BY THE NUMBERS

How much have Park Districts saved by working with SEDAC?

- Number of energy assessments: 180
- Square feet assessed: 13M
- Total projected kWh savings: 34M
- Total projected therm savings: 1.8M
- Total projected cost savings: $4.2M
- Average total energy savings (%): 30%

TOP 10 SEDAC TIPS FOR PARK DISTRICTS

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 pre-condition 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.

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, 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.

SERVICES PREVIEW

SEDAC’S STEPS FOR ENERGY SUCCESS

WHAT OUR CLIENTS ARE SAYING

“I would like to thank SEDAC for assisting the District with incorporating energy efficient features into the building...I am proud to be able to say that we will have not just a great sports facility for our citizens, but one that will operate in a very efficient manner.” – Garrett Jones, Rockford Park District

“You could immediately feel the difference from the insulation in the summer heat. We could not have done these projects without funding from grants. SEDAC’s services were a HUGE help too.” – Jeffrey Janda, Berwyn Park District Director

PARK DISTRICTS WE SERVE

SEDAC has provided assistance for park district facilities in cities across Illinois, including:

- Rockford (9 projects)
- Schaumburg (8)
- Chicago (4)
- Highland Park (6)
- Oak Park (6)
- Park Ridge (6)
- Palatine (3)
- Waukegan (3)
- Fox Valley (3)
- Warrenville (3)
- Geneva (3)
- Elmhurst (3)
- Wauconda (2)
- Sterling (2)
- Vernon Hills (2)
- Buffalo Grove (2)
- Flossmoor (2)
- Dundee (2)
- Hazel Crest (2)
- Berwyn (2)
- Bloomingdale (2)
- Arlington Heights (2)
- Channahon (2)
- Northbrook (2)

INFORMATION CENTER

Go to sedac.org/park-districts for case studies, success stories, energy savings tips and more.