

PUBLIC SECTOR RCx

Retro-commissioning (RCx) is the systematic discovery, documentation, review, and improvement of energy operations through **NO-COST OR LOW-COST SAVINGS OPPORTUNITIES** (repair, adjustment, control) that match building performance to current functional requirements.

DCEO offers **FREE** objective retro-commissioning **CONSULTATION SERVICES** for public sector facilities in Illinois. These services – delivered by SEDAC and its team of private sector RCx service providers – offer guidance and analysis to improve the energy performance of your building by **FOCUSING PRIMARILY ON HVAC** (heating, ventilating, and air conditioning systems). This program establishes an 18-24 month collaborative partnership between building stakeholders and the RCx provider for investigation and optimization of building operations.

TYPICAL PUBLIC SECTOR CLIENTS



PUBLIC SCHOOLS,
COLLEGES, &
UNIVERSITIES



FEDERAL & STATE
BUILDINGS



MUNICIPALITIES &
LOCAL GOVERNMENT



LIBRARIES

RCx YIELDS RESULTS

● QUICK PAYBACKS

SEDAC identifies no-cost, low-cost improvements that **PAYBACK** in

1.5
YEARS or LESS

● GREAT SAVINGS

RCx generally

REDUCES
energy use by

16%*
(median whole building savings)

● MULTIPLE BENEFITS

Longer equipment life
Lower utility bills
Lower maintenance costs
FEWER COMFORT COMPLAINTS

● EXTENSIVE EXPERIENCE

SEDAC has provided RCx analysis for over

53 facilities,
totaling **19 MILLION** square feet

● SIGNIFICANT IMPACT

SEDAC has already identified

\$4.3 MILLION
PER YEAR IN SAVINGS

*Mills, Evan. "Building Commissioning: A Golden Opportunity for Reducing Energy Costs and Greenhouse-gas Emissions" (July 2009). <http://cx.lbl.gov/2009-assessment.html>

ELIGIBILITY

Eligibility is limited to public sector entities that receive electrical delivery service from Ameren Illinois or ComEd. Facilities receiving natural gas from Ameren Illinois, Nicor, North Shore, or Peoples Gas may be eligible for gas savings measures.

Eligible existing buildings:

- are more than 5 years old*
- exceed 150,000 square feet*
- have a functioning building automation system (BAS) that RCx provider can access
- have energy use indices that show potential to produce significant savings

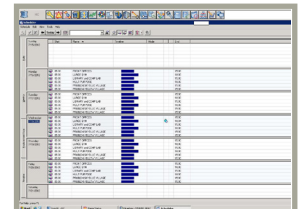
Clients are required to invest at least \$10,000 to implement identified measures.

* Newer or smaller buildings considered case-by-case.

TYPICAL RCx RECOMMENDATIONS



HVAC SETPOINTS AND
CONTROL SCHEMES



BUILDING ZONING
AND SCHEDULING



TUNING UP
EQUIPMENT



MAINTENANCE
AND REPAIR

QUESTIONS? ASK ROBERT
rcx@sedac.org, 312-546-9961

LEARN MORE
<http://rcx.sedac.org>

THE RCx PROCESS

● ELIGIBILITY SCREENING

Submit "Notice of Interest" at <http://rcx.sedac.org>

● APPLICATION AND REVIEW

Submit application at rcx.sedac.org for review and final acceptance. We will work with you to determine scope, timeline, and additional information requirements.

● SITE VISITS AND DATA COLLECTION

The RCx service provider, working with your staff and contractors, will review construction and equipment documents, assess equipment settings, collect operational data, and perform functional tests to investigate systems condition, operation, and performance.

● RCx REPORT DEVELOPMENT

The SEDAC team will analyze data, diagnose problems, identify RCx measures, and calculate payback periods.

● MEASURE SELECTION

You decide what to implement and who will do the work.

● IMPLEMENTATION AND VERIFICATION

We will provide ongoing assistance and verify improvements (**\$10k implementation commitment required**).

For more information about the program, please go to <http://rcx.sedac.org>.

For further questions about the RCx program and to determine your eligibility, please contact Robert Irmiger at 312-546-9961 or e-mail rcx@sedac.org.



WHO WE ARE

SEDAC is sponsored by the Illinois Department of Commerce and Economic Opportunity in partnership with investor-owned utilities to achieve energy efficiency savings in buildings throughout the State of Illinois.

SEDAC is an applied research program at the University of Illinois at Urbana-Champaign.

SEDAC works in collaboration with the 360 Energy Group and other energy partners throughout Illinois.

OTHER SEDAC PROGRAMS

- Energy Assessments
- New Construction Design Assistance
- Public Housing Efficient Living
- Training and Outreach
- Energy Incentive Guidance
- Energy Information Center



Illinois
Department of Commerce
& Economic Opportunity
Pat Quinn, Governor



Contact us:

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Public Sector Retro-Commissioning (RCx)



www.sedac.org

SMART ENERGY DESIGN ASSISTANCE CENTER
PROVIDING EFFECTIVE ENERGY STRATEGIES FOR
PUBLIC AND PRIVATE BUILDINGS IN ILLINOIS

SEDAC