

Program Offerings Overview

November 10th, 2023



SEDAC

SMART ENERGY DESIGN ASSISTANCE CENTER

Providing effective energy strategies for buildings and communities

Agenda

- Who is SEDAC? What is our program's mission?
- SEDAC's core programs
 - Energy Code Training
 - Public Water Infrastructure Assessments
 - Climate Action Planning
- SEDAC Partnerships
 - DCEO Clean Energy Workforce Development
 - IL Green Business Program
 - EPA Thriving Communities Tech. Asst. Center
 - Cook County Sun & Save
 - Ameren Small Projects

Who we are

- We are an applied research program at University of Illinois.
- We help building owners and communities improve energy efficiency, save money, and become more sustainable.

Our goal: Reduce the energy footprint of Illinois and beyond.



What We Do

We are an applied research program at the University of Illinois.

We assist buildings and communities in achieving energy efficiency, saving money, and becoming more sustainable.

- We help facilities become more energy efficient.
- We educate.
- We research.
- We advocate for a greener future.



SEDAC Core Programs

Energy Codes Program

- Training
- Technical Assistance
- Advocacy

Illinois Energy Conservation Code

Updated Illinois Energy Conservation Code (2021 IECC with IL Amendments) is expected to be effective soon.



SEDAC Energy Code Training Series

Energy Code Webinar Schedule

08.22.23 – ARCHIVED – Energy Code Basics

09.26.23 – ARCHIVED - Existing Residential Buildings

11.14.23 – UPCOMING! - Residential Stretch Code

12.12.23 – Q&A Review – How We Answer Energy Code Questions

02.20.24 – Commercial Stretch Code

04.09.24 – Simplified Code Compliance

05.21.24 – Existing Commercial Buildings

06.11.24 – Q&A Review – How We Answer Energy Code Questions

Registration: <https://smartenergy.illinois.edu/events>



SEDAC Energy Code In-person Workshops

12.12.23 – Q&A Webinar

2021 IECC: Submitted Questions and Answers

- **Slides ARCHIVED**

03.19.24 – Workshop 2

Energy Code Basics, Simplifying Code Compliance & Q&A Review

– **Location: TBD**

Registration: <https://smartenergy.illinois.edu/events>

Access to 2021 IECC & IL Amendments

Menu Search all of Digital Codes

All Codes <

Legend Information

CODE SECTIONS MY NOTES

2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

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PREFACE

▶ ARRANGEMENT AND FORMAT OF THE 2021 IECC

ABBREVIATIONS AND NOTATIONS

IECC—COMMERCIAL PROVISIONS

▶ CHAPTER 1 [CE] SCOPE AND ADMINISTRATION

▶ CHAPTER 2 [CE] DEFINITIONS

▶ CHAPTER 3 [CE] GENERAL REQUIREMENTS

▶ CHAPTER 4 [CE] COMMERCIAL ENERGY EFFICIENCY

2021 International (IECC) Add to Favorites

The 2021 IECC® addresses energy efficiency on several resources and the impact of energy usage on the environment.

Related Titles

2021 Complete Revision History to the 2021 I-Codes - IECC: Successful Changes and Public Comments >

2021 Significant Changes to the International Energy Conservation Code >

IL Amendments DRAFT:
CDB May 2023 Board Book
pp 026-069

CHAPTER 1 [CE] SCOPE AND ADMINISTRATION

SECTION C101 SCOPE AND GENERAL REQUIREMENTS

C101.1 Title. This code shall be known as the *International Energy Conservation Code of [NAME OF JURISDICTION]* and shall be cited as such. *Illinois Energy Conservation Code* or "this Code" and shall mean:

With respect to the State facilities covered by 71 Ill. Adm. Code 600.Subpart B:

This Part, all additional requirements incorporated within Subpart B (including the 2018 International Energy Conservation Code, including all published errata but excluding published supplements that encompass ASHRAE 90.1-2016), and any statutorily authorized adaptations to the incorporated standards adopted by CDB are effective July 1, 2019.

With respect to the privately funded commercial facilities covered by 71 Ill. Adm. Code 600.Subpart C:

This Part, all additional requirements incorporated within Subpart C (including the 2018 International Energy Conservation Code, including all published errata and excluding published supplements that encompass ASHRAE 90.1-2016), and any

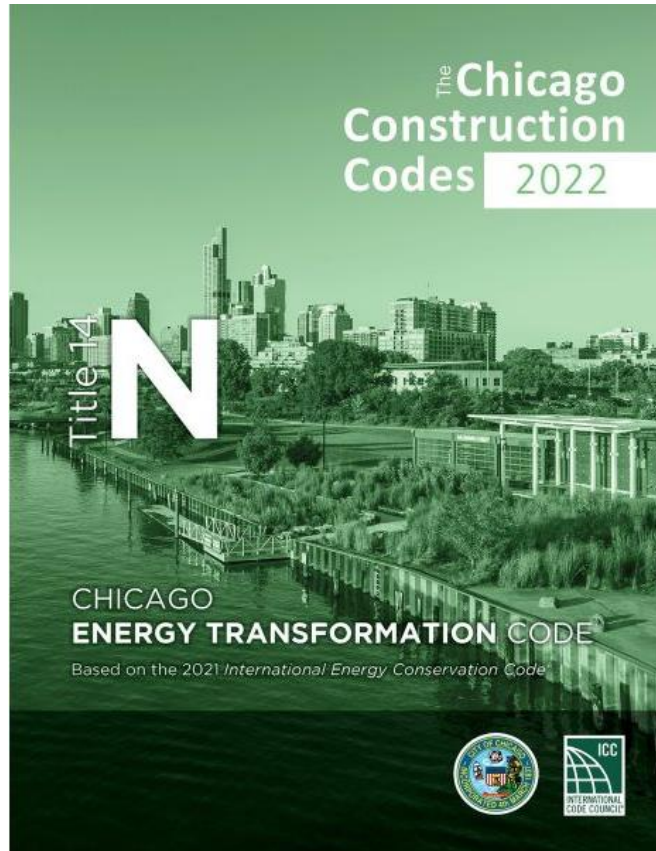
C101.1.3 Adaptation. The Board may appropriately adapt the International Energy Conservation Code to apply to the particular economy, population, distribution, geography and climate of the State and construction within the State, consistent with the public policy objectives of the EEB Act.

C101.5 Compliance. Residential buildings shall meet the provisions of IECC—Residential Provisions. Commercial buildings shall meet the provisions of IECC—Commercial Provisions—the Illinois Energy Conservation Code covered by 71 Ill. Adm. Code 600.Subpart C. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code. Minimum compliance shall be demonstrated by submission of:

1. Compliance forms published in the ASHRAE 90.1 User's Manual; or
2. Compliance Certificates generated by the U.S. Department of Energy's COMcheck™ Code compliance tool; or
3. Other comparable compliance materials that meet or exceed, as determined by the AHJ, the compliance forms published in the ASHRAE 90.1 User's Manual or the U.S. Department of Energy's COMcheck™ Code compliance tool; or
4. The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural

<https://codes.iccsafe.org/content/IECC2021P2>

Access to Chicago Energy Transformation Code



<https://codes.iccsafe.org/codes/illinois/Chicago>

ARTICLE XIII. **CHICAGO ENERGY CONSERVATION CODE**

SECTION 1. The Municipal Code of Chicago is hereby amended by inserting a new Title 14N, as follows:

TITLE 14N ENERGY CONSERVATION CODE

PART I – COMMERCIAL PROVISIONS

CHAPTER 14N-C1 SCOPE AND PURPOSE

14N-C1-C001 Adoption of the commercial provisions of the International Energy Conservation Code by reference.

The commercial provisions of the *International Energy Conservation Code*, 2018 edition, second printing, and all erratum thereto identified by the publisher (hereinafter referred to as "IECC-CE"), except Appendix CA, are adopted by reference and shall be considered part of the requirements of this title except as modified by the specific provisions of this title.

If a conflict exists between a provision modified by this title and a provision adopted without modification, the modified provision shall control.

14N-C1-C002 Citations.

Provisions of IECC-CE which are incorporated into this title by reference may be cited as follows:

14N-C[IECC-CE chapter number]-[IECC-CE section number]

14N-C1-C003 Global modifications.

The following modifications shall apply to each provision of IECC-CE incorporated into this title:

1. Replace each occurrence of "*International Codes*" with "*Chicago Construction Codes*."
2. Replace each occurrence of "*International Building Code*" with "*Chicago Building Code*."
3. Replace each occurrence of "ASME A17.1" or "ASME A17.1/CSA B44" with "the *Chicago Conveyance Device Code*."
4. Replace each occurrence of "NFPA 70" with "the *Chicago Electrical Code*."

We Provide CEUs!

SEDAC is a Preferred Education Provider with the International Code Council (ICC). Credits earned on completion of this program will be reported to ICC for ICC members. Certificates of Completion will be issued to all participants.



This workshop is approved for 1 LU/HSW CES credits from the American Institute of Architects (AIA). Credits earned on completion will be reported for AIA members.



Energy Code Assistance

- Technical support
 - energycode@sedac.org
 - 800.214.7954
- Online resources at smartenergy.illinois.edu/energy-code
- Workshops
- Webinars
- Online on-demand training modules



Public Water Infrastructure

- Training
- Technical Assistance
- Sustainability Research

What is the Illinois PWI Program?

Partnership between Illinois EPA Office of Energy, SEDAC, and IL Sustainable Technology Center



- Funds energy assessments and continuing education opportunities for public water systems and their staff.

How the Program Works

The Illinois EPA Public Water Infrastructure Energy Assessment Program helps municipalities reduce the cost of water and wastewater treatment.

- NO-COST energy assessments and technical assistance
- Comprehensive report listing:
 - Cost of upgrades
 - Estimated payback period
 - Any applicable incentives or funding opportunities
- Operator continuing education events
- Program participants are eligible for grant funding opportunities within 5yrs of assessment completion.



Funding provided in whole or in part by the Illinois EPA Office of Energy. This program is in partnership with the U.S. Dept. of Energy Sustainable Wastewater Infrastructure of the Future (SWIFT) Accelerator for energy efficiency in wastewater treatment.



U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



Technical Assistance

We provide assistance with smaller projects, too!

- Help completing utility rebate & grant application forms
- Estimate potential savings for individual measures
 - New project not in original report
 - Small facility that can't justify full on-site assessment
- Updates to past reports with new information
- Updating benchmarking post implementation

comEd | Energy Efficiency
AN EXELON COMPANY

Custom and New Construction Project Screening Form

January 1 through December 31, 2023

DIRECTIONS: Please save a copy of this form to your computer by selecting "FILE/SAVE AS" before entering your information electronically and select "SAVE." Note that this form requires the current Adobe Reader. Download the most recent version of Adobe Reader® at <https://get.adobe.com/reader/>.

BEFORE YOU BEGIN: The energy efficiency team will use this form to determine your eligibility for offerings. Once you submit this form, the energy efficiency team will evaluate your project or Incentives Application or a New Construction Incentives Application so you can apply for it to BusinessEE@ComEd.com or call **855-433-2700** for assistance.

SECTION 1: Customer Information

Customer/Primary Contact Name: John Doe
Organization/Company Name: Anytown WWTP
Customer/Primary Contact Email: t.zintl@foxrivergrove.org

SECTION 2: Project Information

Project Name: Wastewater Plant Blower System Up
Account Number (if applicable):
Address: 123 Municipal Dr.
Primary Building Type (select all that apply):
 Education Hospital/Health
 Other: Wastewater
Eligible Project Type (select):
 Public Sector Project
Estimated Date:
Estimr:

SECTION 3: Project Description

Please provide the following information about your project to the best of your ability. You do not have to complete more information that you share with us, the better we can assist you with your project.

Was this project identified in a ComEd Energy Efficiency Program facility assessment or study? Yes No

Assessment/Study Completion Date: _____

Probability the project will happen (%): _____

What is the current phase of your project?
 Pre-Design Schematic Design Design Development Construction Documentation Equipment Purchased

If in design development phase, how complete is your design? (%): _____

SECTION 4: Project Scope

Provide an overview of the project you are working on. Detail specifics like what equipment is being replaced and/or installed, construction or renovation plans, or any other relevant details, as applicable. Please provide as much information about your project as possible for our screening review team. The more information that is provided, the better we can assist you with your project.

The existing blower system currently consists of a 40HP Neuros turbo blower with VFD, and a 50HP Hoffman centrifugal blower. Both systems currently operate at near full speed to meet aeration demand. The system does not currently have DO controls. The upgrade will consist of adding a 75HP Neuros turbo blower with VFD to supplement the existing 40 HP Neuros blower. The 75HP blower will be able to handle lower low periods if needed. DO controls are not being added for this project. The existing aeration system uses coarse bubble diffusers, which are not being upgraded with the blowers.

Terms and conditions apply. Offers subject to change.
The ComEd Energy Efficiency Program is funded in compliance with state law.
© Commonwealth Edison Company, 2023.

Program Summary: 2017 - 2023

- Plants served: 158 WWTPs, 43 PWSs
- 500 total recommendations, 39 implemented
- \$4.2M identified savings, ~\$0.45M implemented
- 40,000 MTCO₂e identified emissions reductions, 5,000 MTCO₂e implemented
- Hosted 4 in-person workshops, 2 “field days”, 26 training webinars, and created 1 research paper, 15 publications, and 2 video case studies
 - Partner with industry professionals, engineering firms, and operators to diversify training



Overview of Funding Opportunities

Government Grants, Loans, and Assistance

US DOE Sustainable Wastewater Infrastructure of the Future (SWIFt)	+
USDA Rural Development Water and Environmental Programs (WEP) Loans and Grants	+
Illinois EPA Wastewater Treatment Plant Energy Efficiency Grant	+
Illinois EPA Revolving Loan Fund	+
Illinois Finance Authority (Loan)	+

Private Grants or Assistance

Rural Community Assistance Program (RCAP)	+
DOE Midwest CHP TAP	+
Net Zero Energy Wastewater Grant	+

Utility Incentives

Illinois Municipal Electric Agency Rebate Program	+
ComEd Energy Efficiency Program (for ComEd customers)	+
Ameren Illinois Rebate Program (for Ameren customers)	+
Nicor Gas Energy Efficiency Incentive Programs	+
North Shore Gas Energy Efficiency Incentive Programs	+

Case Studies & Technical Articles

Herrin WWTP Case Study

🕒 June 28, 2023

In 2018, SEDAC performed an energy assessment for the Herrin IL Wastewater Treatment Plant (WWTP). The assessment identified several energy [...]



Algal Treatment for Wastewater Treatment Plants

🕒 May 2, 2023

A new process to enhance water treatment and minimize energy consumption is gaining traction in Water Resource Recovery. The concept [...]



Illinois EPA Public Water Infrastructure Energy Efficiency Program Flyer

🕒 May 2, 2023

Take a look at our program flyer for information on no-cost energy assessments, top energy savings opportunities, and realized savings [...]



Lift Station Optimization in Wastewater Treatment Plants

🕒 June 29, 2022

Lift stations move wastewater from lower to higher elevation, particularly where the elevation of wastewater sources is not sufficient for [...]

Climate Action Planning

- Net-zero roadmaps
- Facility Assessments
- Technical Service

Entities Reaching Net-Zero Emissions

- IGEN Net-Zero Collaborative
 - IGEN = IL Green Economy Network
 - Climate action planning for community colleges
 - Goal to achieve net-zero emissions
- Cook County Forest Preserves
 - Parks and support facilities in Cook County
 - Goal to achieve net-zero emissions
- Illinois Dept. of Natural Resources
 - State parks, historic sites, natural history museums, and support facilities
 - Goal to achieve net-zero emissions

Resources for Climate Action Planning



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NET ZERO COLLABORATIVE

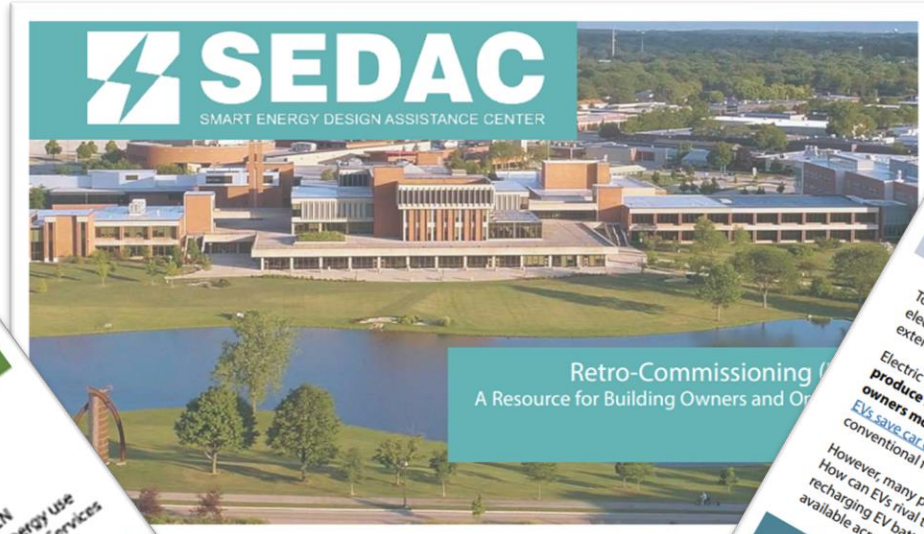
SEDAC is partnering with the Illinois Green Economy Network (IGEN) to provide education and technical support to community colleges to develop Net Zero Plans. Show your commitment to mitigating climate change by collaborating with SEDAC and IGEN colleges to create a pathway to net zero.

WHAT IS THE NET ZERO COLLABORATIVE?

Do you work for an IGEN community college? Does your college have a net zero or climate action plan? Are you looking for ways to improve or update your plan?

The IGEN Net Zero Collaborative is here to help! SEDAC offers no-cost services to help IGEN community colleges develop Net Zero Plans. These plans describe a pathway to reduce energy use and greenhouse gas emissions to achieve net zero energy or emissions by some future date. Services include education, collaboration, and technical support.

To join, contact SEDAC at 800-214-7954 or netzero@sedac.org



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Retro-Commissioning
A Resource for Building Owners and Operators

Retro-Commissioning? (RCx)

Retro-commissioning (RCx) is the application of the commissioning process to improve how building equipment and systems function. Depending on the age of the building, RCx can often reduce energy consumption, or address problems that have developed through the building's operations and maintenance (O&M) procedures.



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Electric Vehicle Charging Stations
February 2022

To address the challenges of rising gas prices, climate change, and dwindling fossil fuel resources, policymakers point to electrification as a potential solution. The transportation sector in particular exhibits great promise to reduce negative externalities and change the way people live and work.

Electric Vehicles (EVs) show increased energy efficiency compared to traditional internal combustion engine vehicles. They produce nearly 75% fewer carbon emissions and other pollutants hazardous to human health, and they can save EVs save car owners \$800-\$1,000 annually due to their high energy efficiency and lower operating costs compared to conventional fuel-consuming cars.

However, many people appear reluctant to purchase an EV due to concerns about driving range and charger availability. How can EVs rival the convenience of gas stations and mileage over long trips? EV charging stations play a vital role by recharging EV batteries whose relative size and capacity can limit driving range. With charging stations made widely available across the country, EVs can drive long distances even when they cannot be recharged at home overnight.

Types of EV Chargers

There are many different kinds of chargers—over 300 charging companies exist worldwide (Reuters 2022)—but they each make use of one of three different types of charging: Alternating Current (AC) Level 1, AC Level 2, or Direct Current (DC) Level 3 (also known as DC Fast Charging or DCFC). The higher the level, the faster the charging that occurs.

Level 1 charging utilizes standard wall plugs and most often occurs overnight in residential dwellings, when EVs aren't in use for long periods.

LEVEL 1 Charging	LEVEL 2 Charging	DC Fast Charging
		
VOLTAGE 120V	VOLTAGE 200V or 240V	VOLTAGE 200V or 480V - 3 phase
AMPS 15A to 20A (12-16A load)	AMPS 10A to 30A (16-20A load)	AMPS 50A to 400A
CHARGING POWER 1.4 kW to 3.6 kW	CHARGING POWER 3.6 kW to 19.2 kW	CHARGING POWER 150 kW to 350 kW

Technical articles and informational pamphlets

Climate Action Reports

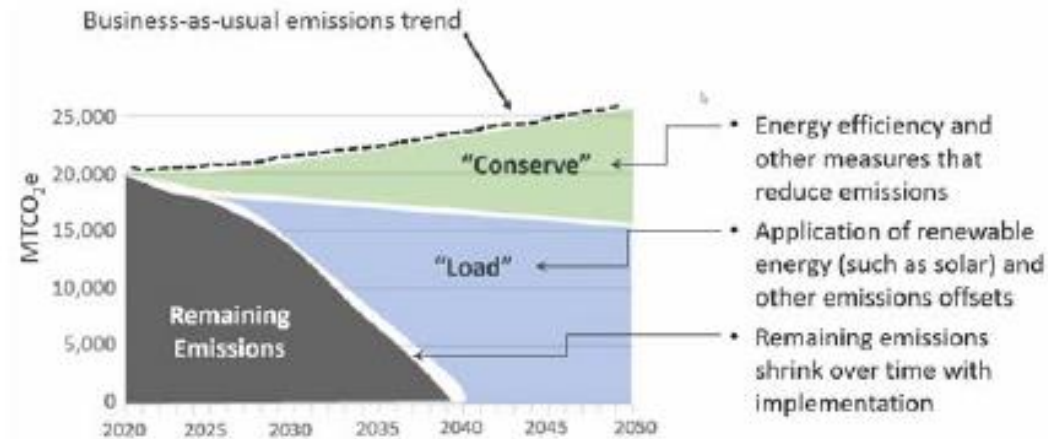
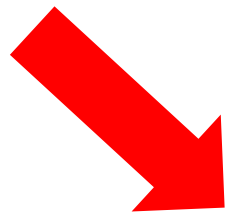
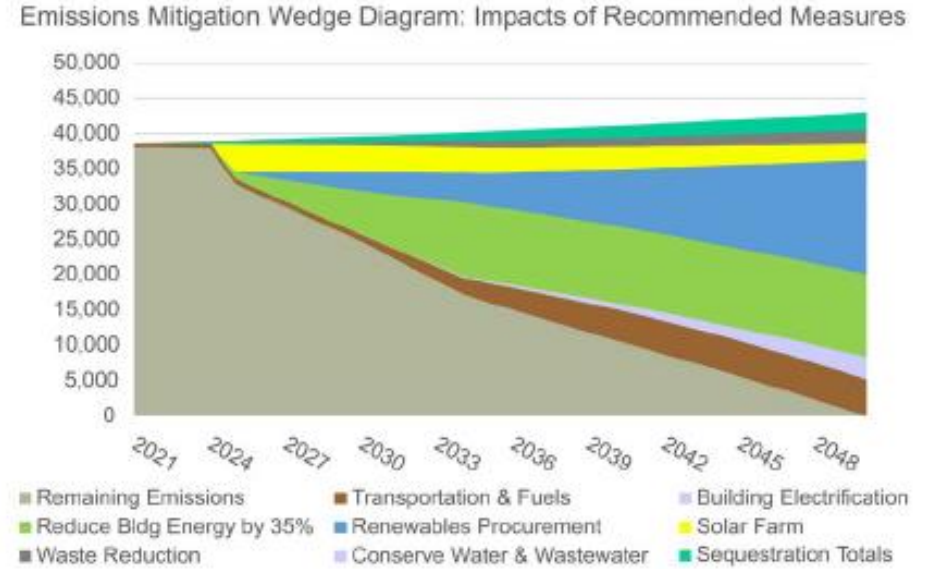
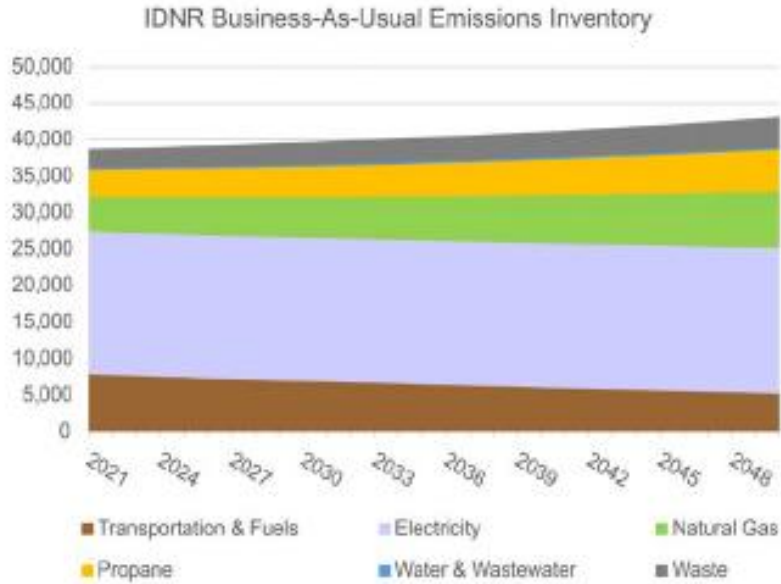


Figure 5. Conserve and load description



Carbon Neutrality Planning

Roadmap

Project Prioritization

Impact Visualization

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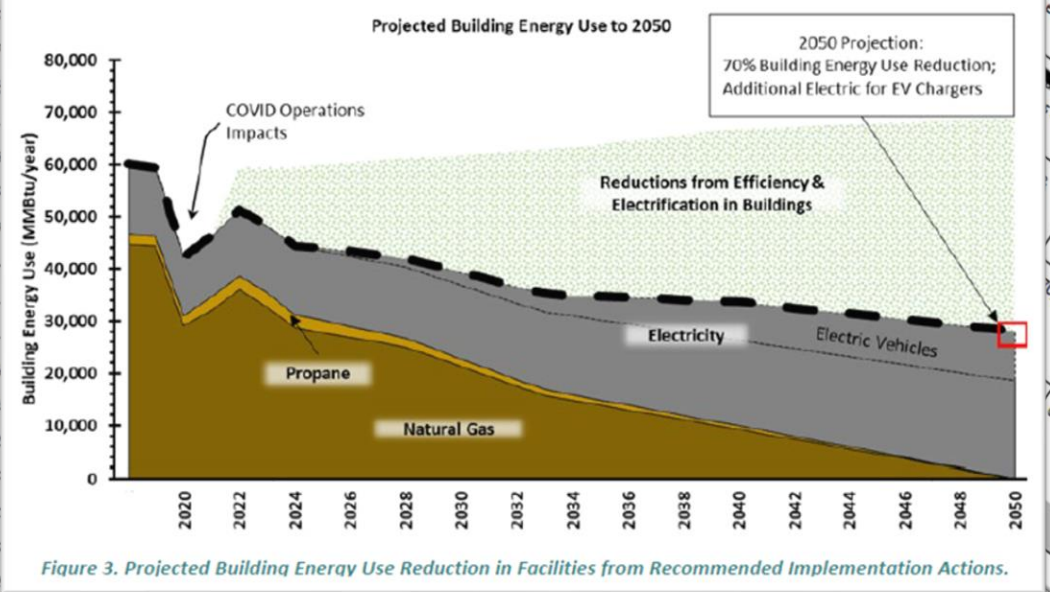


Figure 3. Projected Building Energy Use Reduction in Facilities from Recommended Implementation Actions.

Table 18. Summary of savings and costs of priority projects for implementation in 2023-2027.

Building / Project	Site Energy Savings Cost per year	% Reduction	Annual GHG Reduction (MTCO2e)	Project Cost Estimate		Total
				Efficiency & electrification	Envelope & capital projects	
1. [Redacted] - efficiency and electrification, envelope improvements	\$2,000	60%	40	\$85,000	\$90,000	\$175,000
2. [Redacted] - efficiency and electrification, envelope improvements	\$2,000	65%	40	\$90,000	\$90,000	\$180,000
3. [Redacted] - efficiency and electrification, envelope improvements	\$6,000	60%	80	\$135,000	\$90,000	\$225,000
4. [Redacted] - efficiency and electrification, envelope improvements	\$2,000	50%	20	\$90,000	\$90,000	\$180,000
5. [Redacted] - efficiency and electrification, envelope improvements	\$1,000	55%	40	\$90,000	\$90,000	\$180,000
6. [Redacted] - efficiency and electrification, envelope improvements	\$3,000	50%	40	\$110,000	\$350,000	\$460,000
7. [Redacted] - efficiency and electrification, envelope improvements	\$1,000	5%	40	\$110,000	\$3,100,000	\$3,210,000
8. [Redacted] - efficiency and electrification, envelope improvements	\$2,000	10%	0	\$280,000	\$215,000	\$495,000
9. [Redacted] - efficiency and electrification, envelope improvements	\$70,000	2%	10	\$8,000	\$200,000	\$208,000
10. [Redacted] - efficiency and electrification, envelope improvements	\$10,000	60%	70	\$685,000	\$58,000	\$743,000
11. [Redacted] - efficiency and electrification, envelope improvements	\$340	70	50	\$4,500,000	\$795,000	\$5,295,000
12. [Redacted] - efficiency and electrification, envelope improvements	\$210,000	60%	50	\$45,000	\$4,500,000	\$4,950,000
13. [Redacted] - efficiency and electrification, envelope improvements	\$1,138,000	60%	50	\$255,000	\$9,325,000	\$9,580,000

SEDAC Partnerships

Clean Energy Workforce

- Partnered with Dept. of Commerce and Economic Opportunity
- Other Public Universities

SEDAC's Contributions

- RESEARCH!
 - Skills and training inventory
 - Identified 1,157 training programs for clean jobs
 - In-demand clean energy jobs
 - Built out prioritization of skillsets to train
 - Challenges and barriers to equitable workforce opportunities
 - Developed recommendations for collaboration between stakeholders
- Assisting with Program Launch
 - Funding opportunity announcements
 - Organization outreach



Workforce Program Resources

WORKFORCE RESOURCES



How will CEJA Grow the Solar Workforce?

🕒 May 16, 2023

The Illinois Climate and Equitable Jobs Act (CEJA) sets a goal for Illinois to reach 40% renewable energy by 2030 [...]



Growing the Clean Energy Workforce

🕒 April 19, 2023

It's an exciting time to be part of the clean energy workforce! Recent state and federal legislation has brought unprecedented [...]



Growing the Energy Efficiency Workforce: Crafting Effective Job Postings

🕒 October 1, 2021

In the current job market where job seekers have a multitude of different options, how do you craft a job [...]



Energy Efficiency Workforce: Lessons Learned from Past Crises

🕒 October 9, 2020

Growing the Energy Efficiency Workforce Research Series In Illinois, nearly 10,000 energy efficiency jobs have been lost since the beginning [...]



Energy Efficiency Workforce Diversity

🕒 July 14, 2020

There are many benefits to a diverse workforce. Diversity can drive competition, improve culture, foster innovation and economic growth, and [...]



Building a Resilient Energy Efficiency Workforce

🕒 September 8, 2020

The economic effects of the pandemic have devastated many job sectors, including the energy efficiency sector. In Illinois, there are [...]



<https://dceo.illinois.gov/climateandequitablejobs.html>

Climate and Equitable Jobs Act Implementation

[CEJA Program Announcements](#)

[CEJA Commissions and Councils](#)

[Clean Jobs Workforce Network Program](#)

[Climate Works Pre-apprenticeship Program](#)

[Energy Transition Navigator Program](#)

[Returning Resident Clean Jobs Program](#)

[FEJA Solar Training Programs](#)

[Clean Energy Contractor Incubator Program](#)

[Clean Energy Primes Contractor Accelerator Program](#)

[Other CEJA Programs](#)

Illinois Green Business Program

- Partnered with IL Green Business Association

SEDAC's Contributions

- Development of green business metrics
- Development of impact calculator for certification program
- Assessments & Report generation for IL businesses
 - Energy use reduction
 - Waste reduction
 - Sustainable sourcing



Thriving Communities Technical Assistance Centers

- Partnered with
 - Blacks in Green
 - Midwest Tribal Energy Resources Assoc.
 - Black Environmental Leaders Assoc.
 - Environmental Health Watch
 - Univ. of Chicago School of Public Health

SEDAC's Contributions

- Illinois participant intake for TCTAC in Region 5
 - Serving as subject matter experts for program
 - Grant writing assistance
 - Energy conservation and impacts
 - Publications
 - Training
 - Technical Assistance



U.S. EPA Region 5 States

Cook County Sun & Save

- Partnered with Cook County and 360 Energy Group

SEDAC's Contributions

- Program administrative duties, including
 - Vendor program certification
 - Client application review
 - Program development





Questions?

sedac-info@illinois.edu

800-214-7954