

Agenda

Overview of Local Law 97

Con Edison's Energy Efficiency Programs

- Commercial & Industrial Energy Efficiency Program
- Multi-Family Energy Efficiency Program
- Small-Medium Business (SMB) Energy Efficiency Program



Local Law 97

What is Local Law 97?

 New York City law that sets carbon emissions caps for energy use in NYCs large buildings starting in, 2024, becoming more stringent through 2050.

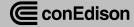
Who does it affect?

Buildings greater than 25,000 square feet

What does it require?

40% citywide emissions reductions by 2030 and 80% by 2050.





LL97: Core Elements

- Large building greenhouse gas emissions (GHG) targets, starting 2024
- Energy emissions coefficients through 2029
- Allows use of renewable energy certificates (RECs), carbon offsets to comply
- Penalty rate of \$268/ton CO₂ (with exceptions)
- Stakeholder Advisory Board



Example of 25,000 square foot building potentially subject to LL97



Our customers want to know about LL97...



Am I in compliance?

How much is my fine?





How much will it cost to come into compliance?

Is it worth it?



Here's where Con Edison EE programs help.



The Evolution of the Utility's Role in Clean Energy









Core Business

Three Commodities: Electric, Gas and Steam **Our Customers**

Diverse market segments, unique building stock

Growth Strategy

Investing \$1.5B in "EE" and heating electrification by 2025

Trusted Energy Advisor

Promote customer choice, education and incentives



Increase Profitability, Decrease Energy Usage



- Offset project costs with cash incentives
- Increase ROI
- Lower monthly bill
- Lower maintenance costs
- Avoid paying fines



- Reduce carbon footprint
- Meet sustainability goals
- Meet state compliance goals
- Enhance brand reputation

Energy Efficiency Strategy

- 1) Education about LL97 & potential impacts

- Customers are seeking answers to their questions from Con Ed team, a trusted team of experts
- Educate commercial and multi-family building owners about impact of LL97 on their specific building



2) Provide pathway to compliance





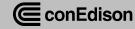
- Utilize specific building knowledge to suggest pathways towards compliance
- Heating electrification and envelope improvements as a long-term carbon reduction strategy
- Package lowest cost EE measures with "deeper" EE measures to improve customer ROI while meeting regulatory goals
- Pathway provides longer term customer engagements, follow-on scopes of work based on pathway (e.g. electrify water heaters this year, electrify space heating next year)

Commercial & Industrial (C&I) Energy Efficiency Program Overview

In 2021, Con Edison has paid \$10.8 million in cash incentives to commercial and industrial customers, saving over 70,000 MWh and 2,500 DTh annually – reducing their carbon footprint by over 40,000 metric tons.

- Managed in-house
- Knowledgeable and experienced team
 - Business Development Managers
 - Energy Specialists
 - Operations
 - Engineers
 - Inspectors
- Work hand in hand with C&I customers to submit projects





Commercial & Industrial Energy Efficiency Program Eligibility

Electric Projects

 All customers with a commercial account over 100 kW average peak demand on a rolling 12-month basis are eligible for C&I incentives, excluding multifamily buildings.

Natural Gas Projects

 All customers with commercial accounts are eligible except customers with a service class of SC-14 or customers receiving service via a negotiated contract.

Existing Buildings

- Project must be in an existing facility.
- New construction is not eligible..

No Double Dipping

 Cannot apply or received an incentive from NYSERDA, Con Edison or another utility for the same project



Commercial & Industrial Energy Efficiency Program Measures

Variable **Lighting & HVAC & Building** Frequency Controls Envelope **Controls Drives Steam Trap** Air **Secondary** Refrigeration Replacement / Compressors Steam Repair **Building Demand Elevator Custom Automation Control** Modernization **Measures Systems Ventilation**



Commercial & Industrial Energy Efficiency Program Case Study

Energy Efficiency Project in Queens

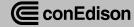
- Scope of Work: Early Replacement Barrel Mixer Asphalt
- Facility able to produce the same amount of asphalt while using 30% less natural gas

Energy Savings: Over 300,000 Therms

1,500 Tons of CO2 reduced

Financials: \$548,603.20 incentive

Payback: < 2 years

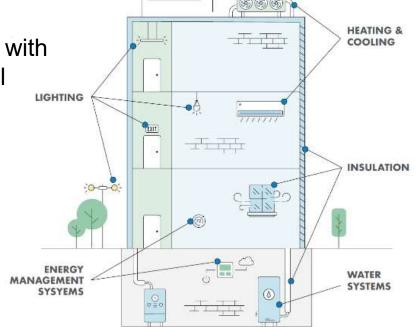


Multifamily Energy Efficiency Program

If you own or manage a residential multifamily building with 5+ residential units you can take advantage of financial incentives for approved equipment upgrades.

Incentive Level Tracks:

- Market Rate Incentives
- Affordable Housing Incentives
- In-unit Direct Install
- Neighborhood Program
- Clean Heat Program



In 2021, Con Edison paid over \$32.2 million in cash incentives to multifamily customers saving over 30,000 MWh and over 392,000 Dekatherms.

Incentives are available for the following equipment upgrades:

















Electric Equipment

- Common Area LED Lighting and Controls
- In-Unit LED Bulbs
- Elevator Modernization
- HVAC
 - Variable Frequency Drives
 - EC Motors
 - Chiller Replacement
 - Cooling Tower Replacement
 - Packaged Terminal Air Conditioners
 - Air Conditioner Central Unit Replacement

Gas Equipment

- Boiler Replacements and Boiler Clean & Tune
- In-Unit Showerhead and Faucet Aerators
- Energy Management Systems
- Pipe Insulation
- Steam Traps
- Boiler Clean and Tune
- 2-pipe Steam Retro-Commissioning
- Building Envelope
 - Air Sealing
 - Roof and Wall Insulation
 - Window Replacement

Eligible neighborhoods in Brooklyn and Queens qualify for bonus incentives to reduce grid demand.

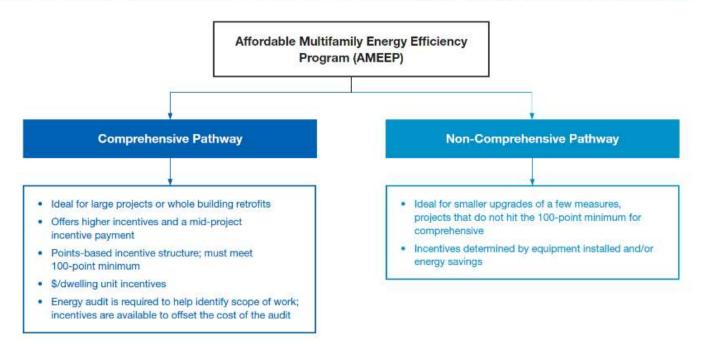
Learn more about the Multifamily Neighborhood Program here



Affordable Multifamily Energy Efficiency Program

Additional incentives are available for buildings that are owned and maintained as affordable housing

The program has been structured into two separate pathways: Comprehensive and Non-Comprehensive



Visit conEd.com/Multifamily to learn more



Case Study - Multi Family Con Edison Building



Building Info:

180 residential units

224,416 square feet

Built in 2005





Project	Description	Achieved Energy Savings	Total Project Cost	Total Incentive	Project Cost Covered	Annual Energy Cost Savings
Common Area Lighting	Provides quality lighting and reduces electricity consumption	12,090 kWh	\$6,230	\$1000	16%	\$2,230*
Rooftop Exhaust Fan	Reduce electric consumption by improving ventilation	49,426 kWh	\$30,600	\$15,300	50%	\$9,390*
In-Unit Lighting	Provides quality lighting and reduces electricity consumption	15,279 kWh	FREE			

^{*}Assuming \$0.19/kWh and \$1/Therm



SMB Program Overview

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Who?

•Small and mid-sized business customers in Con Edison's service territory



What?

- •Free Energy Surveys.
- •Incentivized direct installations of energy efficient technology.



How?

 Participating contractors recommend ways to save energy and money and perform the upgrades if the customer is interested



Why?

 Saving money on energy bills allows smallmedium business owners to spend more money on growing their businesses

Visit conEd.com/smallbusiness to learn more

Total available market

Cumulative portion of market served

Portion of market served

350,000 eligible customers

Over 40,000 SMB Program Participants

3,500 - 4,000 participants annually



Lighting & Controls



HVAC



Refrigeration



Hot Water System



Energy Management Systems



Building Envelope



Program Benefits

- Reduce energy consumption
- Reduce maintenance costs
- Reduce carbon footprint
- Latest and greatest technology
- Increased sales



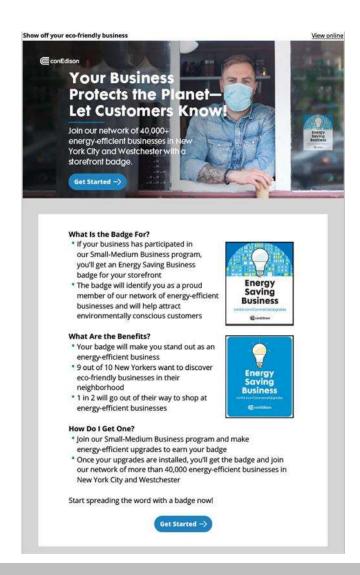
Free, energy-saving LEDs

Do-It-Yourself

Neighborhood Program

Submit an Interest Form

Visit conEd.com/smallbusiness to learn more



SMB Case Study: Rack Compressor Replacement

Energy Efficiency Project in Manhattan

 Project involved removal and replacement of two Rack Compressors

Energy Savings: Over **80,000 kWh** annually

56 Metric Tons of CO2 reduced

Financials: \$36,105.87 incentive

- Incentives: Covered 54% of project costs
- Annual Electric Cost Savings: \$12,035
- Payback: 3 years



Refrigeration Rack Compressor

Visit conEd.com/smallbusiness to learn more



SMB Case Study: Lighting

Energy Efficiency Project in Queens

Project involved upgrading hundreds of lighting fixtures

Energy Savings: Over **68,000 kWh** annually

48 Tons of CO2 reduction

Financials: \$7,211.00 incentive

- Incentives: Covered 70% of project costs
- Annual Electric Cost Savings: \$10,217
- Payback: **3.6** Months



LED Lighting

Visit conEd.com/smallbusiness to learn more



Neighborhood Program

- Objective: Eliminate or defer traditional projects with location specific (targeted) customer side projects.
- Provide incentives to customers of varying market types to install energy efficiency for quick implementation.
- Traditional Projects: Substations, new transmission, new distribution lines
- Non-Wires Solutions Territories: BQDM, Newtown
- Customer Segments: Commercial/Industrial, Multifamily, Small-Medium Business, Residential





Thank you!

Watson Millison

SMB Energy Efficiency Deputy Program Manager – www.coned.com/smallbusiness



millisonw@coned.com

Mike Tierney

C&I Energy Efficiency Deputy Program Manager



tierneym@coned.com

Kimberly Lewis

Multifamily Energy Efficiency Acting Program Manager

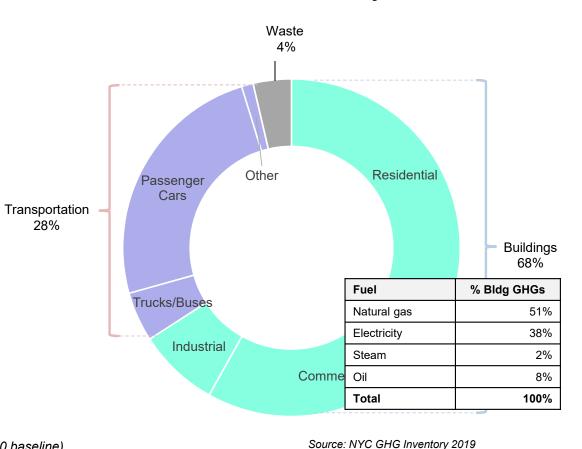


lewiski@coned.com

LL97: Goals

- NYC economy-wide emissions goals (compared to 2005 baseline*):
 - 40% by 2030
 - 80% by 2050
- Bldgs cause 68% of GHG emissions
- Local Law 97 of 2019 (LL97) sets GHG targets for large buildings

NYC GHG Emissions by Sector



* Note: these targets are stricter than NYS 85x50 goal (which uses a 1990 baseline)

28%



Agenda

- Intro
- LL97 overview
- Program Overviews
 - C&I
 - MFEE
 - SMB
 - Case
- Case studies
- Program performance metrics (GHG equivalents, etc)
- Potential Q&A



Local Law 97

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- Who does it affect?
 - Buildings greater than 25,000 square feet
- What does it require?
 - 40% citywide emissions reductions by 2030 and 80% by 2050

