

Lighting Standard Benefits

geatain
SIMPLIFYING BUILDING
ENERGY COMPLIANCE



Ever feel like you could use a hand?



WEBINAR TAKEAWAYS

1. You are busy

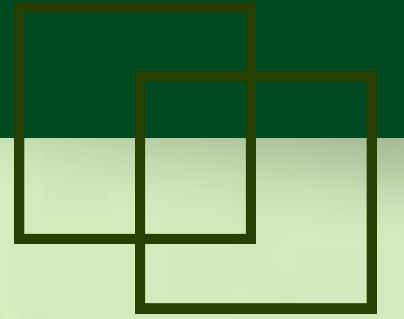
WEBINAR TAKEAWAYS

1. You are busy
2. You will save

How much lighting can be saved?



How much lighting can be saved?



- If spending \$20,000 per month for office electric, save \$10,000 per year.
- If spending \$50,000 per month for office electric, save \$25,000 per year.



WEBINAR TAKEAWAYS

1. You are busy
2. You will save
3. You will comply

LOCAL LAW 88 FILING

Most important LL88 consideration:

ConEd presurvey scheduling takes 8-12 weeks.

Very challenging to complete implementation in next few months.

LL88 OF 2009

- Properties over 25,000 square feet.
- Lighting improvements due January 1st, 2025
- LL88 filing required by May 1st, 2025.
- Electric submetering required for commercial tenant spaces. >5,000 square feet

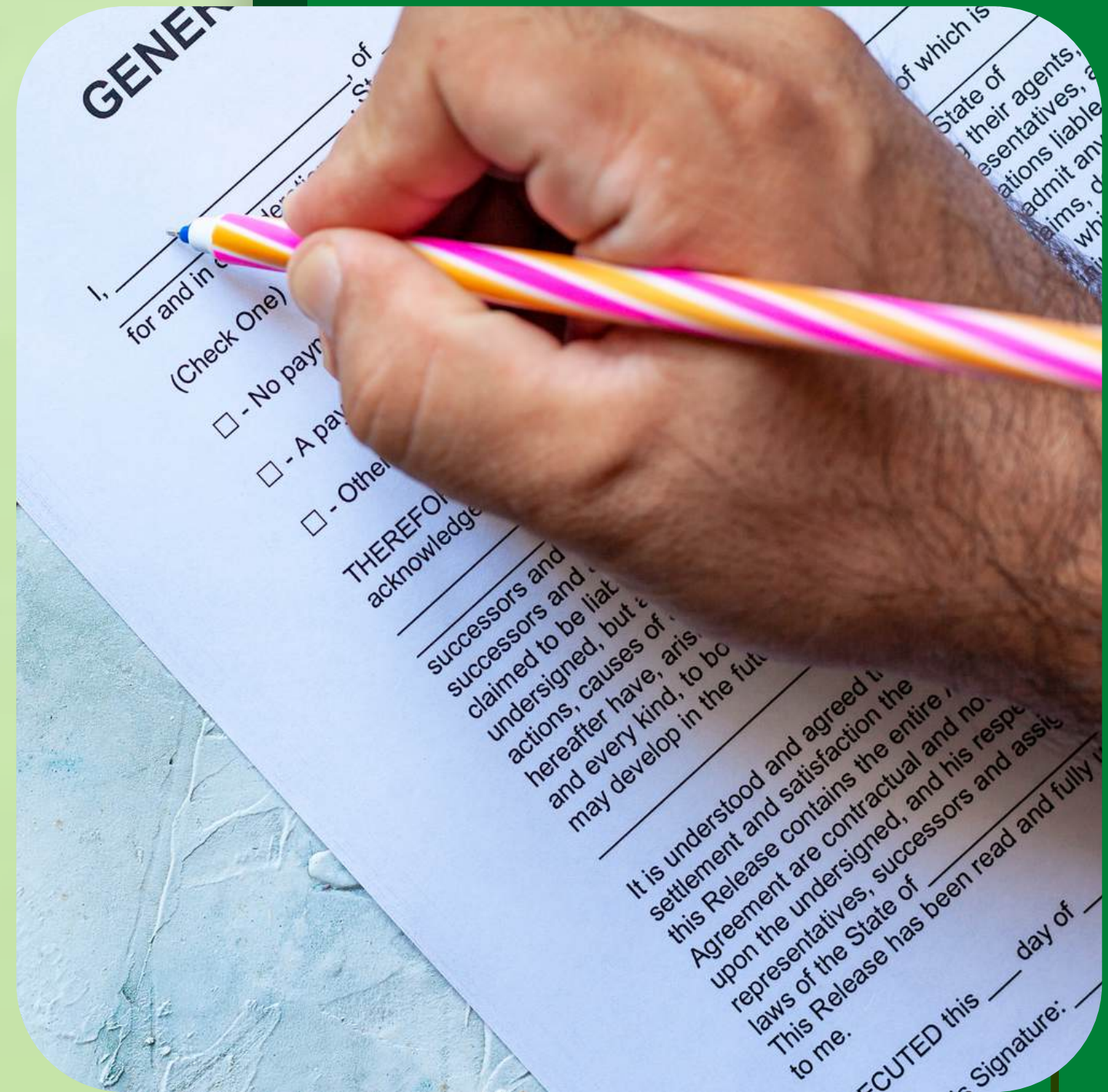


LL88 OF 2009

- Required for LL97 Decarbonization Pathway
- Meet NYCECC 2020 code

Penalties:

- Annual \$1,500 for lighting
- Annual \$1,500 for submetering
- Annual \$500 per space for submetering



Applicable NYC Energy Conservation Code for lighting upgrades required by Article 321

(Also applies to § 28-310.3, exception 1)

Lighting system filed or otherwise documented as having been installed on or after*

July 1, 2010

December 28, 2010

January 1, 2015

October 3, 2016

May 12, 2020

2009 NYC Energy Conservation Code ("ECC")

[Local Law 85 of 2009](#), based on:

- 2007 Energy Conservation Construction Code of NY State ("ECCCNYS")
- 2004 International Energy Conservation Code ("IECC")
- ASHRAE 90.1-2001

2011 NYC ECC [section 505](#), based on:

- 2010 ECCCNYS
- 2009 IECC
- ASHRAE 90.1-2007

2014 NYC ECC [section C405](#), based on:

- 2014 ECCCNYS
- 2012 IECC
- ASHRAE 90.1-2010

2016 NYC ECC [section C405](#), based on:

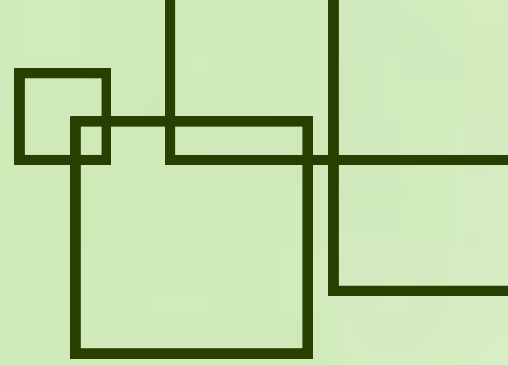
- 2016 ECCCNYS
- 2015 IECC
- ASHRAE 90.1-2013

2020 NYC ECC [section C405](#), based on:

- 2020 ECCCNYS with NYStretch-2020 supplement
- 2018 IECC
- ASHRAE 90.1-2016

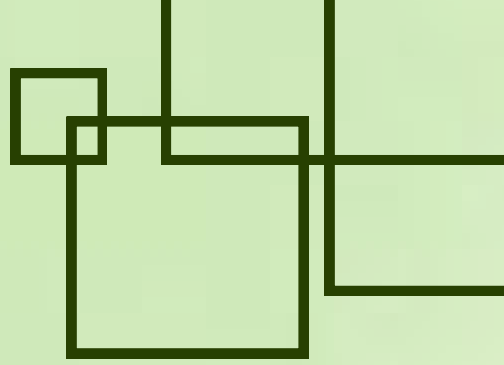
*in accordance with the completeness standards listed in [Buildings Bulletin 2020-002](#)

NYCECC 2020-LIGHTING



- >90% lighting fixtures in residential buildings have efficacy >65 lumens/watt, or luminaire efficacy >45 lumens/watt.
- Section C405 requires sensors in all public spaces that are not used for emergency egress.
- Emergency egress areas, illumination of no less than one footcandle at walking surface.

NYCECC 2020-LIGHTING



- Earlier codes generally require sensors in rest rooms and private offices.
- Occupancy sensors turn off lighting 15 minutes after no motion to <50% lighting levels.

LOCAL LAW 88 FILING

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Very challenging to complete implementation in next few months.

Will DOB grant extension?

LOCAL LAW 88 FILING

Most important LL88 consideration:

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Will DOB grant extension?

Do not delay-extension is not likely.

Lesson some have learned hard way

Think it's expensive to hire a professional?

Lesson some have learned hard way

Think it's expensive to hire a professional?

It will be more costly to hire an amateur.



LL88-SUBMETERING

- Tenants >5,000 square feet submetered.
- Type of submeter on approved submetering list.
- Submeter installation properly approved.
- Monthly statements shared with tenants.



- We understand you have little time for LL88
- We understand your struggles to find a trusted advisor.
- You're looking for a friend who New York City real estate has trusted for decades, who knows the complexities of New York City business.

WEBINAR TAKEAWAYS

1. You are busy
2. You will save
3. You will comply

Next Steps:

- Reach out to us to schedule a 15 minute phone call.
- We'll assess your specific situation.
- As an attendee today, you can receive a free LL88 presurvey.

For more information, email tjm@geatain.com

New Geatain Resources site

Learn to use Resources site to:

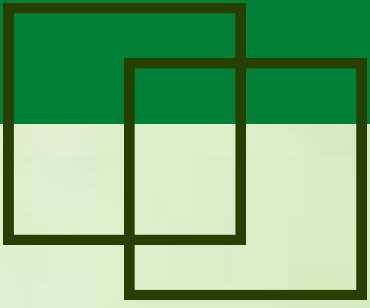
- Lower your monthly ConEd bill.
- Find funding sources.
- Educate yourself to save money.
- Learn from 80+ case studies.
- Understand simple savings strategies.



GEATAIN ENGINEERING NYC ACCELERATOR CERTIFIED



Geatain Engineering has been NYC Accelerator certified vendor since it was know as the "Retrofit Accelerator"

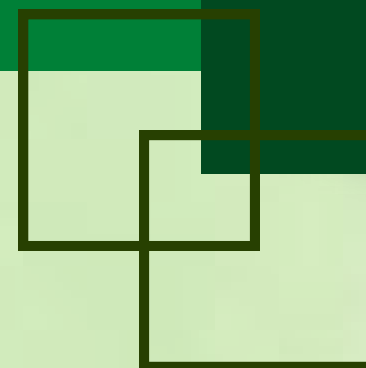


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**SIMPLIFYING BUILDING
ENERGY COMPLIANCE**

- We know what you are going through, we have helped hundreds of similar properties.
- Clients have **trusted us for so long** that we are **one of the three oldest** energy engineering firms in New York City.
- Only a handful of properties have been electrified, we have guided two of them.

NYC BUILDING ENERGY-PRESENTATION SCHEDULE



Future:

- November 12, 2 pm - “LL97 Pitfalls to Avoid.”
- December 10, 2 pm - “Free Money for the Holidays?”
- January 14, 2 pm - "How to Electrify an Existing Building"

Past (recordings available):

- 7 Insights into LL97 Changes
- 12 Funding Sources for your Energy Projects
- LL97 101
- 12 Ways to Easily Save 6-8%
- How to Electrify an Existing Building

Q & A





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