



12 Ways to Easily
Save 6-8%

geatrain
SIMPLE LL97 COMPLIANCE

Questions :

How much could a building save in operational measures only?

- A. Up to 5%
- B. 5-10%
- C. 10-15%
- D. >15%

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Pike Research Data:

“which suggests that operational improvements can offer savings of 10%-20% in buildings.”

New Buildings Institute Data:

Based on data for 121 buildings NBI concluded LEED buildings saved 25-30% compared to conventional buildings.



HOW?

BOILER FIRING TIMES-LENGTH FIRE/AHU-HEATING TIMES



SMART STRIPS AND PLUG OUTLET CONTROLS

- Normally plug loads consume 8-10% of space energy use
- Keep these figures below 5%



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You will save five figures EVERY year.



DELAMPING

How many light sources may be eliminated?



Five Building Savings:



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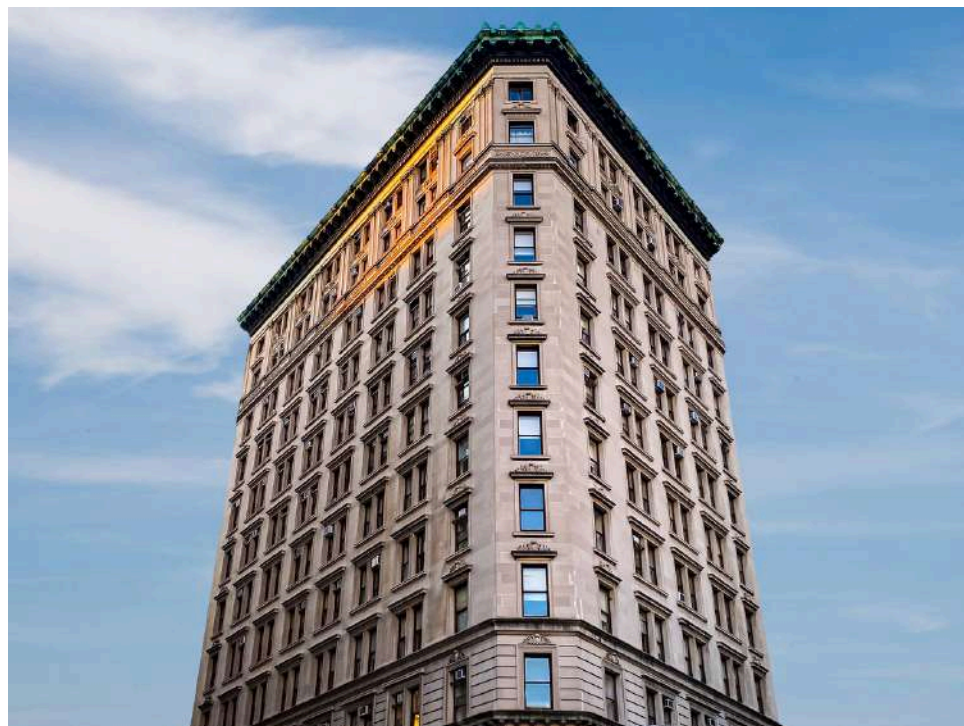
Five buildings in NoMad

Two constructed 1890s, three others prewar

Annual heating spend of \$300,000–\$350,000

Gas conversion ten yrs ago

Owner, manager, operations tried everything to save



Five Building Savings:

Geatrain listened to their concerns

We brainstormed a few ideas, offered solutions

Tried a few things February 2023–April 2023

Five Building Savings:

	1123 Broadway	1133 Broadway	255 5th	11 West 25th	227 West 29th	Averages	Total
Previous Feb-April Fuel Use (kBTU)	16,129,070	33,883,101	3,692,973	4,242,398	8,266,459	13,242,800	
2023 Feb-April Fuel Use (kBTU)	13,448,600	32,007,301	2,512,384	2,918,280	5,791,308	11,335,574	
Fuel Savings (kBTU)	2,680,470	1,875,800	1,180,589	1,324,118	2,475,150	1,907,225	9,536,127
% Fuel Savings	16.6%	5.5%	32.0%	31.2%	29.9%	23.1%	

Note-2023 was 9.2% warmer than the previous three years.

Five Building Savings:

These five properties saved an average of 13.9% off their annual heating costs.

Power of 3-4 degrees

On average, every year-1,932 hrs with temp between 65-78F.

Every degree 65-78 is 148.6 hours there on average each year

If just adjust heating and cooling 2 degrees-save 297.2 hrs or 12.4 days energy use

If just adjust heating and cooling 3 degrees-save 445.8hrs or 18.6 days energy use

If just adjust heating and cooling 4 degrees-save 594.4hrs or 24.8 days energy use



Power of 3-4 degrees



“Imagine saving over three weeks worth of energy **EVERY** year.”

Power of 3-4 degrees



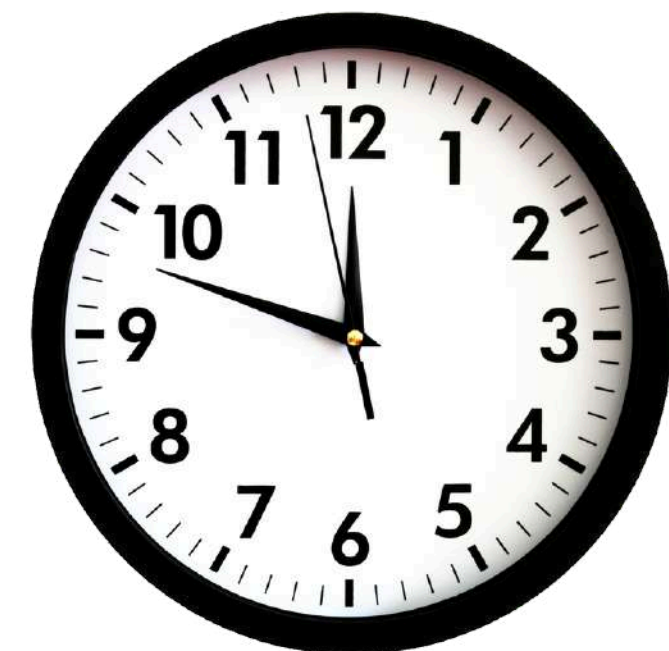
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Power of 3-4 degrees



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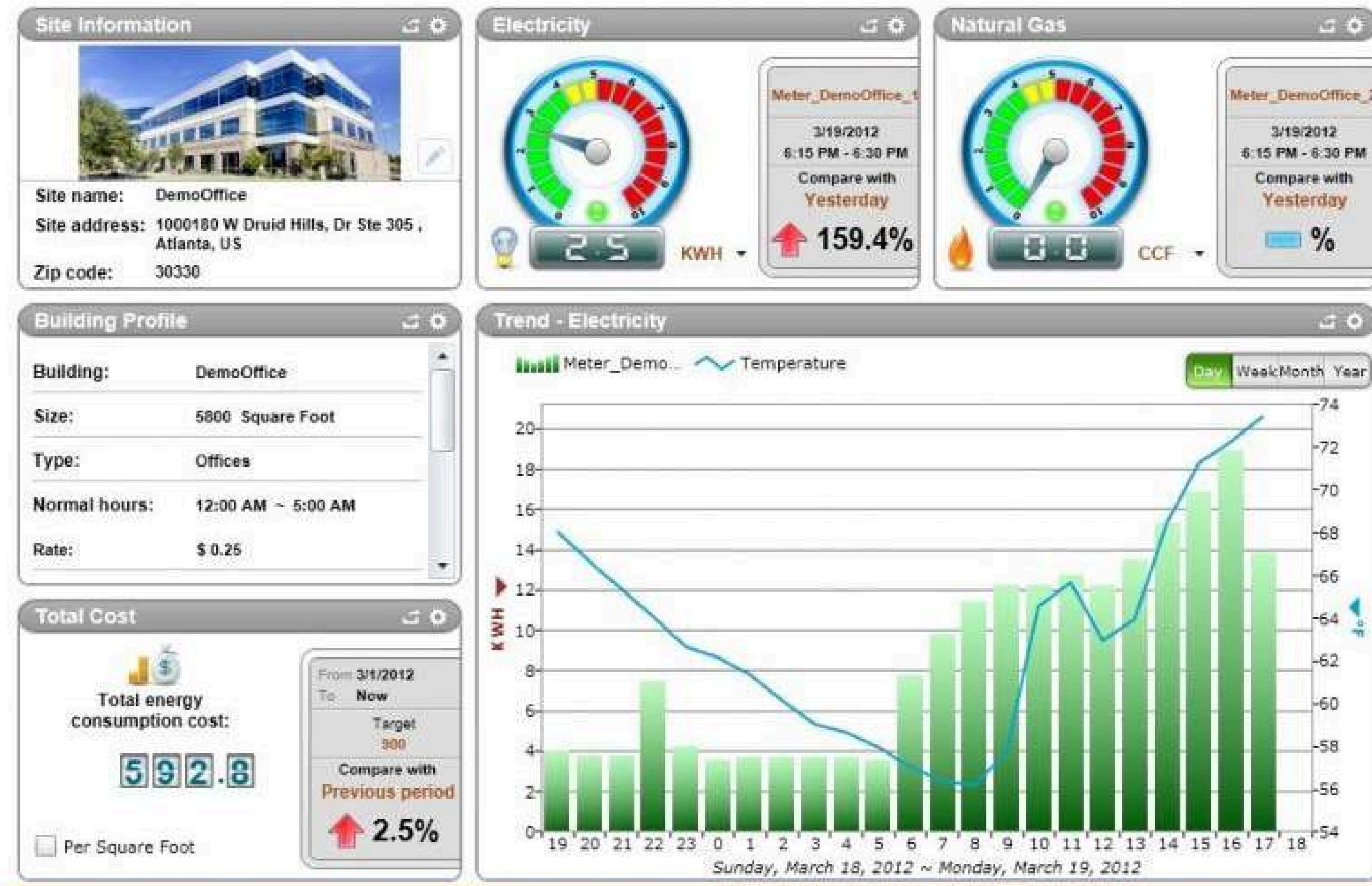
VENTILATION SCHEDULES



PIPE INSULATION



BMS/REAL TIME ENERGY MANAGEMENT



MAXIMIZE DAYLIGHTING



WINDOW FILMS



MULTIFAMILY

REPLACE OLD REFRIGERATORS-AIR CONDITIONERS



COMMERCIAL NIGHT AUDIT



Summary

1. Geatain has saved 5 buildings 13.9% heating costs.
2. Pike Research proved 10%-20% operational energy savings.
3. New Buildings Institute proved 10-15% energy savings.

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All 12 measures focus on operations improvements with only negligible costs.



- 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.



GEATAIN ENGINEERING NYC ACCELERATOR CERTIFIED

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

New GEATAIN Infosite (summer 2024):

- LL97 NEXT STEPS
- PAST SLIDE DECKS
- PAST WEBINAR RECORDINGS
- MANY SAVINGS GUIDES
- OVER 25 TESTIMONIALS
- MOST CASE STUDIES-EXPERIENCES

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NYC BUILDING ENERGY–PRESENTATION SCHEDULE

Today:

- “April 30-2pm-"12 Ways to Easily Save 6-8%”

Future:

- May 28, 2pm-"How to Electrify Your Building"
- June 25, 2pm-"Building Local Law Due in 6 Months"
- July 30, 2pm-"100% Funding for Your Energy Retrofit"

Past:

- 7 Insights into September 2023 Changes to LL97 (recordings available)
- 12 Funding Sources for your Energy Projects (recordings available)
- Most Forgotten NYC Energy Local Law-LL88" (recordings available)
- LL97 101 (recording available)

Questions?





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