#### **BUILDINGENERGY NYC**

### **Turning Building Supers into Energy-Saving Superheroes!**

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Todd Rogers, Energy Training Solutions
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Northeast Sustainable Energy Association (NESEA)
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Turning Building Supers

into Superheroes





### Our Team



Francisco Gonzalez

Building Superintendent Viking Management



**Keirnyn Ross** 

President, Ross Energy Consulting



**Daniel Ilibasi** 

Manager and Head of Energy Compliance at Viking Management



**Todd Rogers** 

President, Energy Training Solutions



**Jonathan Ruhl** 

Owner / Manager Ranger Management



Laura Giannini

Associate Director at TRC Companies, Inc.



**Tomas Aponte** 

Property Manager / Super Ranger Management

### Top Ops is....



A customized training program targeted to building operators wrapped into strategic energy management (SEM) approach.



# Agenda



13	1-Pipe Animation	
14	1-1 Follow Up	
16	Train to Sustain	
17	Action Shots: Field	
20	Action Shots: Lab & Classroom	

# NYSERDA INCENTIVES MADE THIS POSSIBLE



- NYSERDA incentives help our communities become more energy independent
- They realize building staff are key to realizing energy savings, especially with controls!





# TOP OPS = STRATEGIC ENERGY MANAGEMENT (SEM)

SEM builds a structure around existing compliance activities

LL33 - Energy Grades & ESTAR





Increase Skills of Staff to operate buildings efficiently

Ensure long-term persistence of efficient building operation

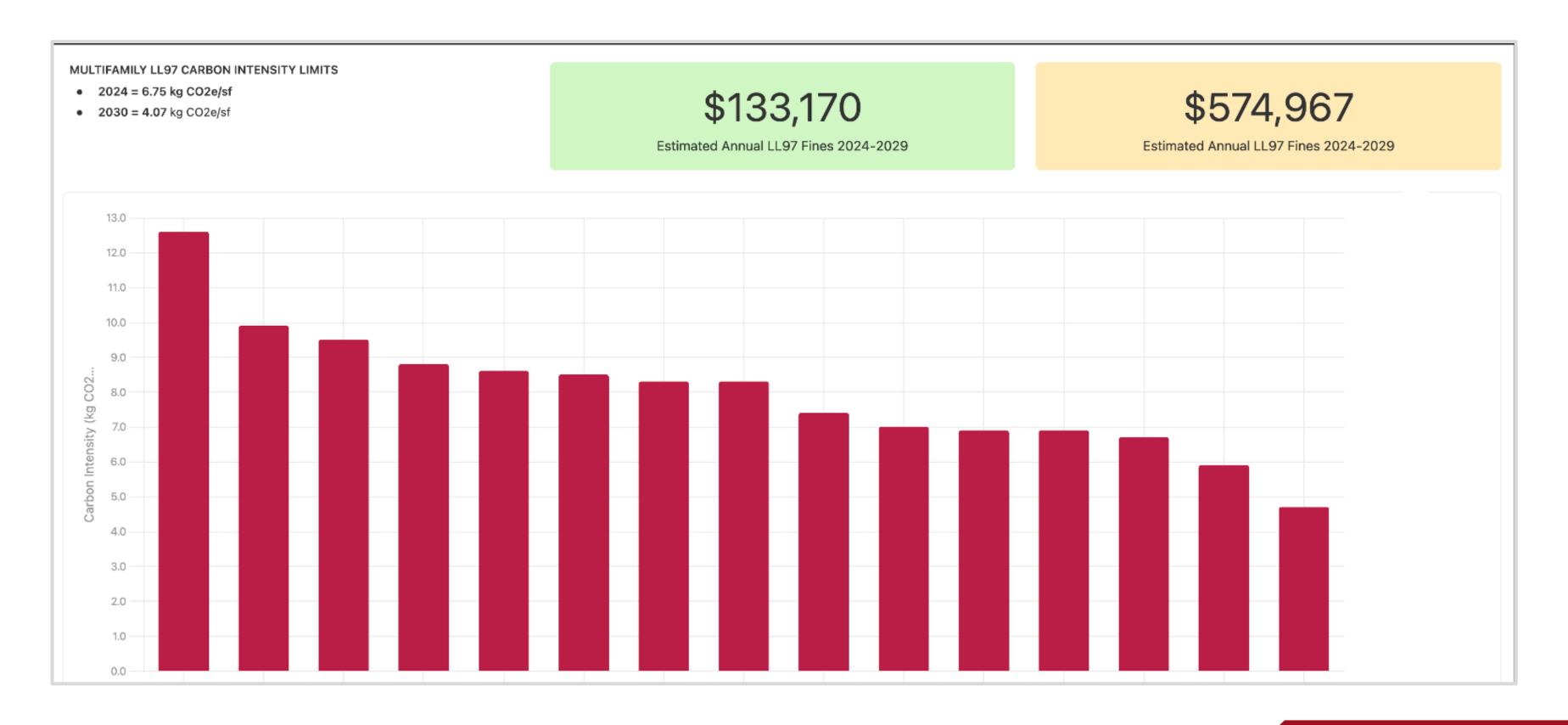
Align Energy Management with Business Drivers

• Minimize Tenant Complaints / 311 Calls, Increase

**Tenant Retention** 



### LL97 COMPLIANCE COSTS



### LL97 Plan

Prioritizing staff and measures to minimize compliance costs.



#### #1 - Over 2024 Limit

-Oil to Gas Conversions-Prescriptive ECMs (no TRVs)-TRVs and / or RECs if needed



#### #2 - At 2024 Limit

-Prescriptive ECMs (no TRVs)
-RECs if needed



#### #3 - At 2030 Limit

-Prescriptive ECMs (no TRVs)
-File ONETIME report!

Prescriptive ECMs

1	Temperature Controls or Enclosures for Radiators (\$)	7	Temperature Set Points
2	Radiant Barriers	8	Heating System Function
3	Functioning Steam Traps	9	Indoor/Outdoor Temperature Sensors
4	Repair Heating System Leaks	10	Upgrade Lighting
5	Piping insulation, Steam and Hot Water Tank Insulation	11	Building Envelope
6	Steam System Master Venting	12	Exhaust Fan Timers



Site visits and interviews identify savings

opportunities

Training tailored to specific systems and staff skill sets

### Core Training

### Two half day sessions



#### Day # 1

Program overview, air sealing, DHW and lighting. Classroom, Lab and field Training



#### Day # 2

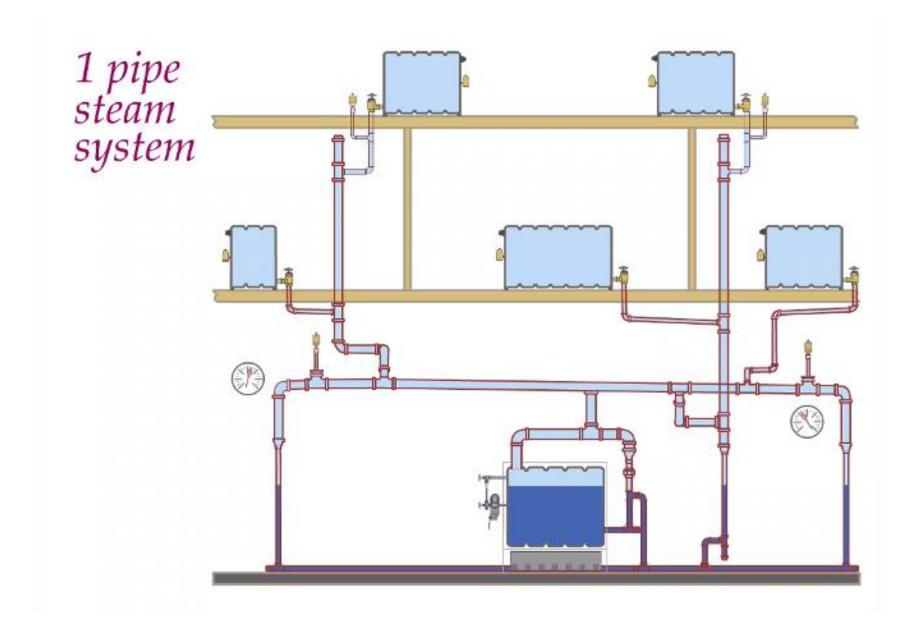
Heating Controls, Burner
Modulation, Master Venting
Classroom and Lab, and
Field Training



### Follow Up:

- 1-1 Operator Sessions
- Quarterly Management Sessions

# Each Training Section...

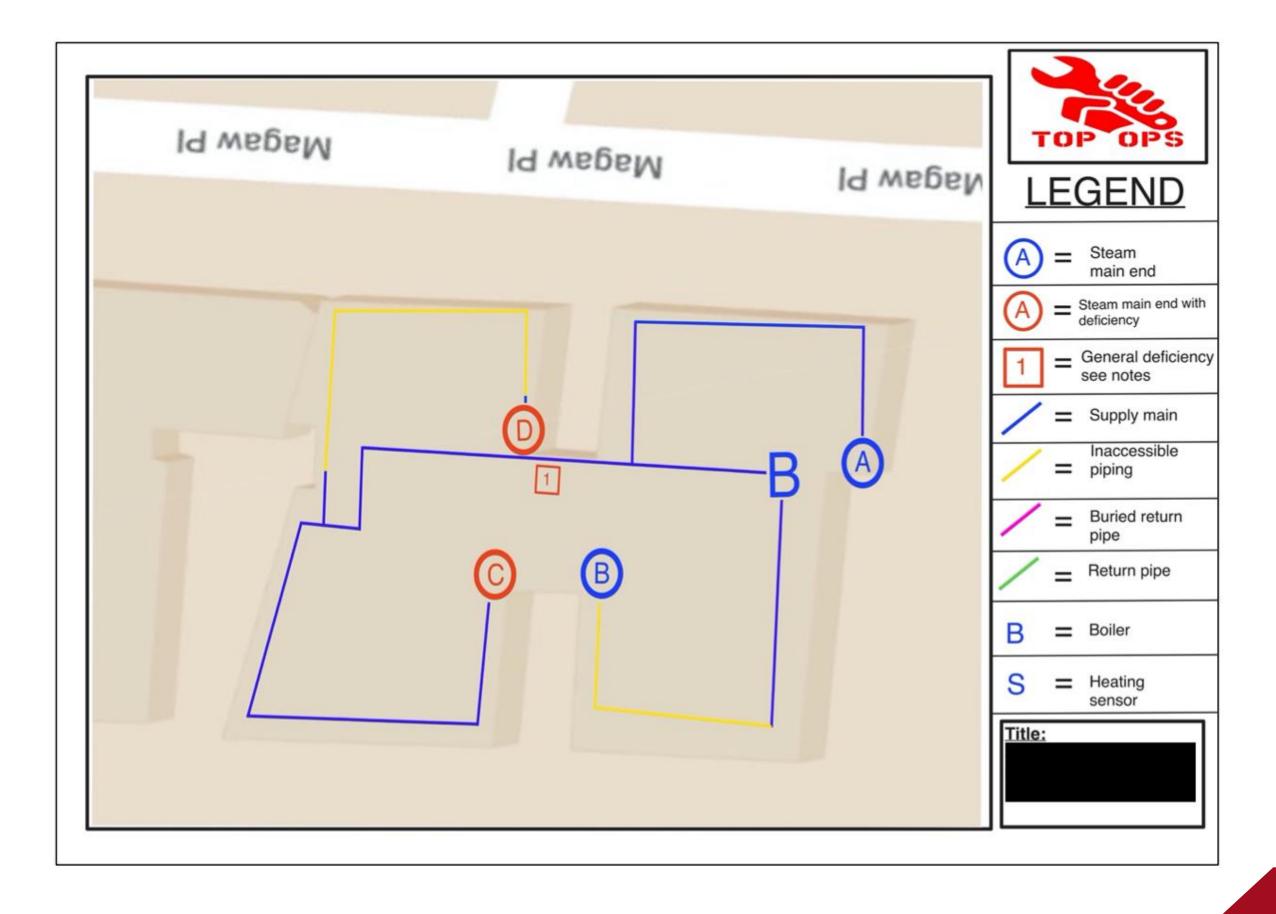


Includes sample animations to simplify complex concepts

Demonstration videos to walk staff through the tough ones step by step

1 pipe steam system

### 1-1 FOLLOW UP: STEAM TRAVEL TIME TEST



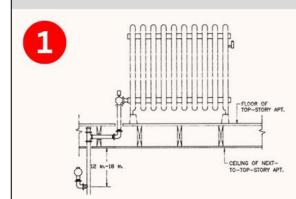
### SUSTAINABILITY: CONCISE NEXT STEPS

Note ID	Steam Travel Time (minutes)	Description of Existing Conditions	Recommended Changes
Α	Under 5 minutes	No existing vent, no additional vents needed	None
В	No Access	Unknown	Determine exact location of steam main end
С	Under 5 minutes	One existing vent leaking steam and water	Replace with Gorton #1 vent
D	13 minutes	One small vent stuck open and leaking steam	Replace with two Gorton #2 vents (minimum 1/2" tap)
1	N/A	There is a leaking and unneccesary vent on the return line near steam main end D	Remove existing vent and close the tap in the piping

## Train to Sustain

Streamlined materials left with our partners to continue the effort in house





#### Determine

which risers go to the ceiling of the top floor, and which risers end one floor below top floor



risers that are enclosed in the wall:

- · If enclosed, use IR camera to locate and mark with painter's tape
- If not enclosed, skip to step to step 3

of the number of vents and locations installed in each apartment.

**Tap Pipe** 

with 1/8" diameter NPS thread, angle so condensate drains towards riser. Remove all debris from hole.

· If enclosed, drill through wall and use an extension if needed.





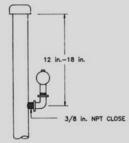
Install

1/8" diameter nipple long enough to stick out 1 - 1.5" from the wall, and 1/8" elbow, using pipe thread sealant and teflon



Install

Straight mounted Gorton #D or equivalent vent using teflon tape





6 Keep track



EMAIL US FOR MORE INFO: TOPOPS@ROSSENERGYLLC.COM



TO BE MORE COMFORTABLE IN YOUR HOME & **REDUCE ENERGY USAGE** 

#### **HEATING**

- · Take AC units out of windows in winter months
- Remove furniture from in front of radiators
- · Close windows
- Check radiator floor valve is completely open
- Report radiator and air valve issues to the office:
  - o Hissing never stops, Never hisses (plugged), loud

#### WATER

- · Report water leaks (faucets, toilets, tubs, steam
- Turn off water when not in use (brushing teeth,
- If hot water takes more than 2 minutes to arrive at faucet, notify the office

#### **ELECTRICITY**

- Close window curtains in summer to keep it cooler
- Turn off lights when you leave a room
- Use LED bulbs
- Do not use electric heaters
- · Turn off AC units when not home



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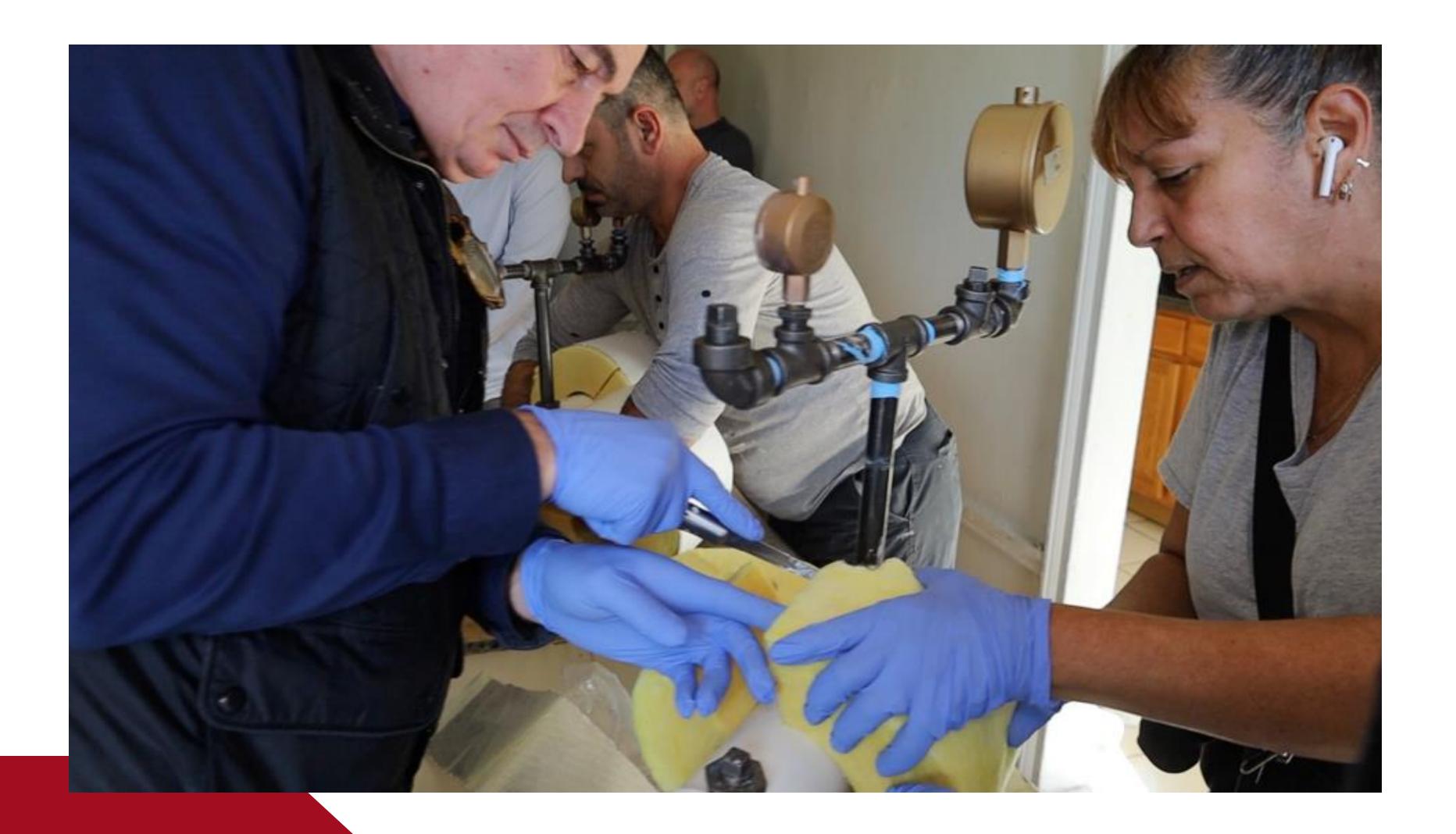
















# Thank you!

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