New Ecology works nationally to bring the benefits of sustainable development to the community level, with a concerted emphasis on underserved populations.

A mission-driven non profit, we seek to make the built environment more efficient, healthy, durable, and resilient.

THIS IS MANIFESTED IN OUR CORE WORK TO:

- Research, test and implement new approaches to sustainability, resiliency, healthy environments and energy efficiency;
- Monitor, test, diagnose and solve operational and building performance issues on existing buildings;
- Help design, build, certify and operate new high performance buildings;
- Share our learnings with building professionals, contractors, government, financiers, owners and managers through education and training.



Community-Based Sustainable Development

TODAY, YOU WILL LEARN:

- 1) WAYS IN WHICH EXISTING SYSTEM OPERATIONS ARE INADEQUATE
- 2) THE DIFFERENCE BETWEEN DATA ANALYTICS AND SINGLE DEVICE MONITORING
- 3) THE OPERATIONAL INSIGHT AFFORDED BY MONITORED DATA
- 4) WHAT YOU SHOULD PAY ATTENTION TO WE ALL PLAY A PART
- 5) THAT LEARNING CAN BE FUN!





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Service Contractor

40

BMS/EMS

j

Handwritten Notes

25

RCx Agent

5

Utility Bills

15

ESCO

1

Building Operator

10

Smart Devices



















Temps Too High

80

Excessive Cycling 30-60

OA Sensor Issues

58

Improper Controls 1

Combined Systems
Mixing Water

54

Poor Maintenance





















Problem Coming!

1

Improper Maintenance

12

Unsafe Conditions

Settings Changed

12

Exactly How to Get Savings

12

Past Lessons

12

Installation Problem

12

Something Broke





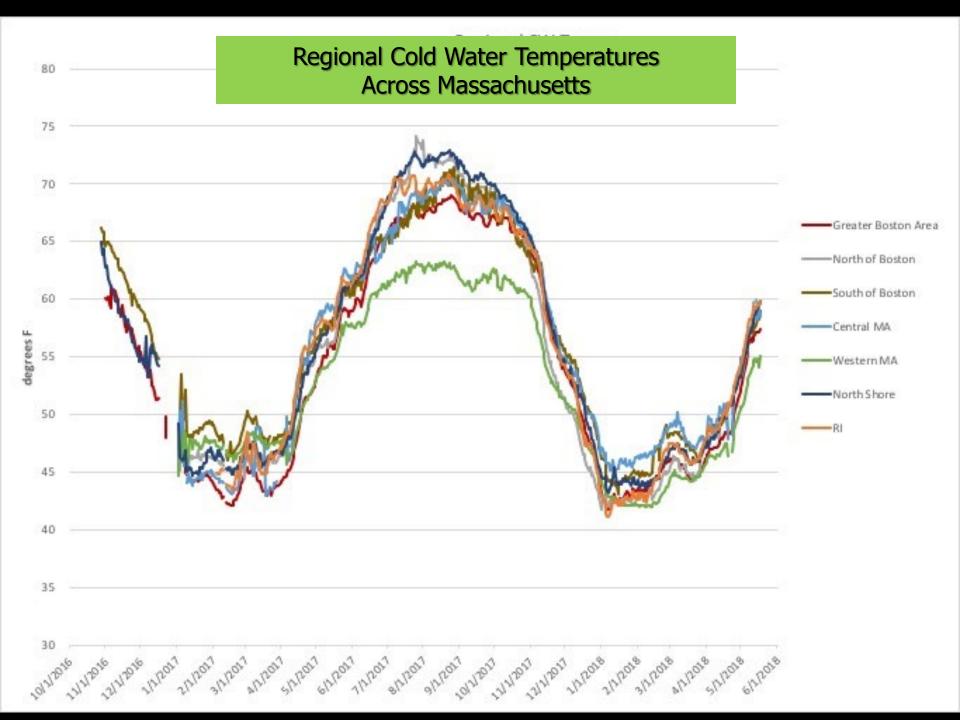




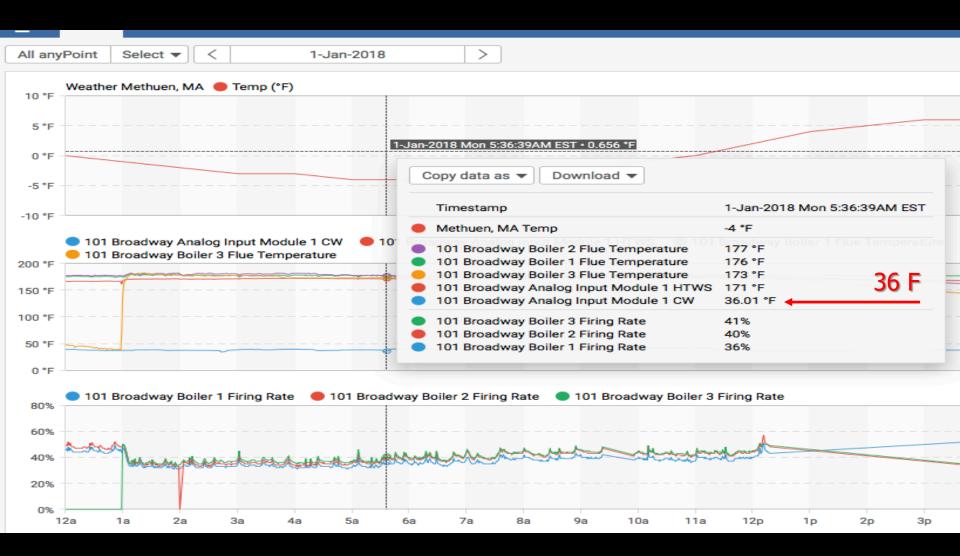






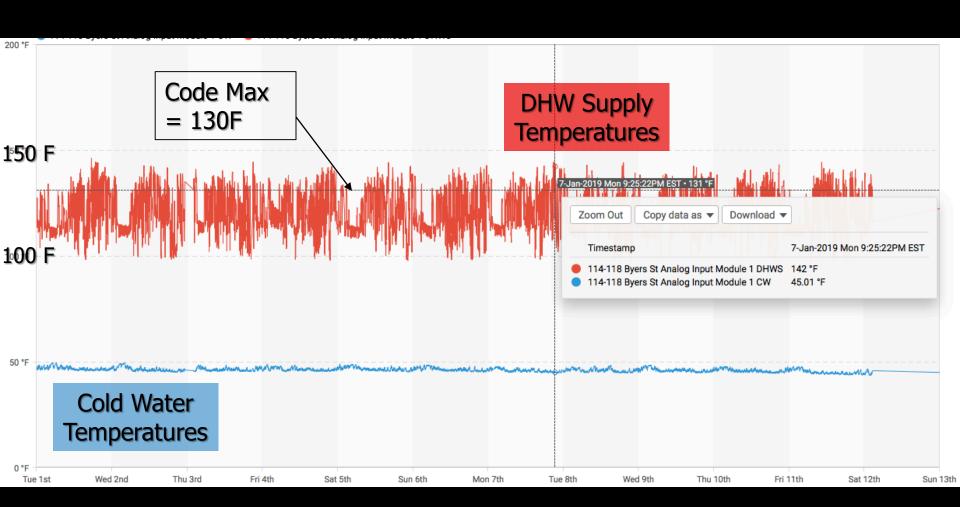


Problem Coming!



Hydronic System Methuen, MA

Unsafe Conditions

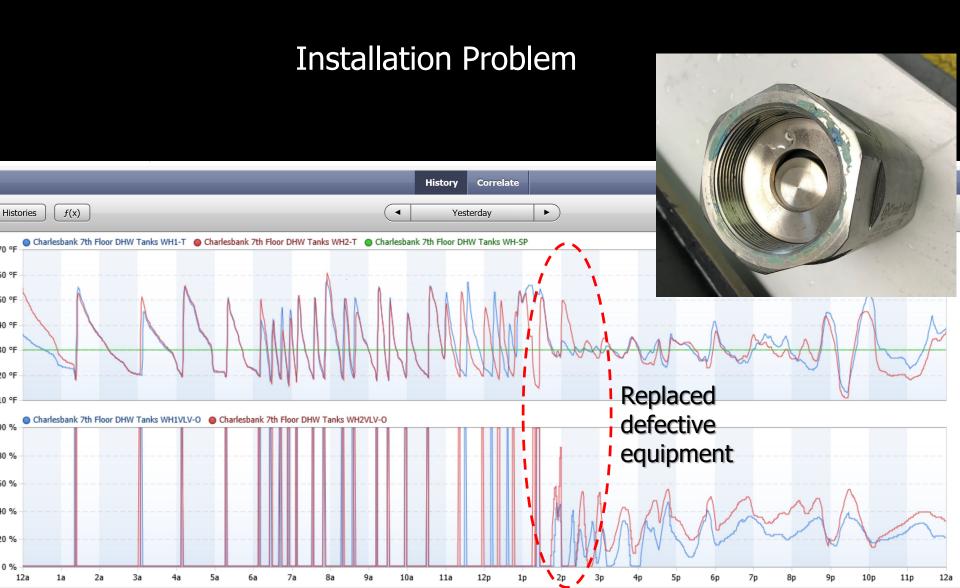


DHW System Everywhere, USA

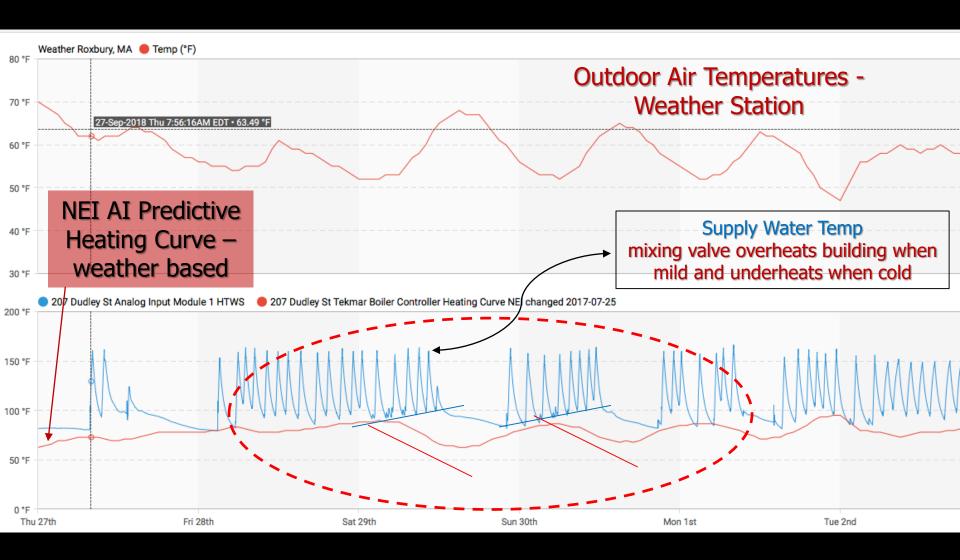
Exactly How to Get Savings



Steam System Chicago, IL

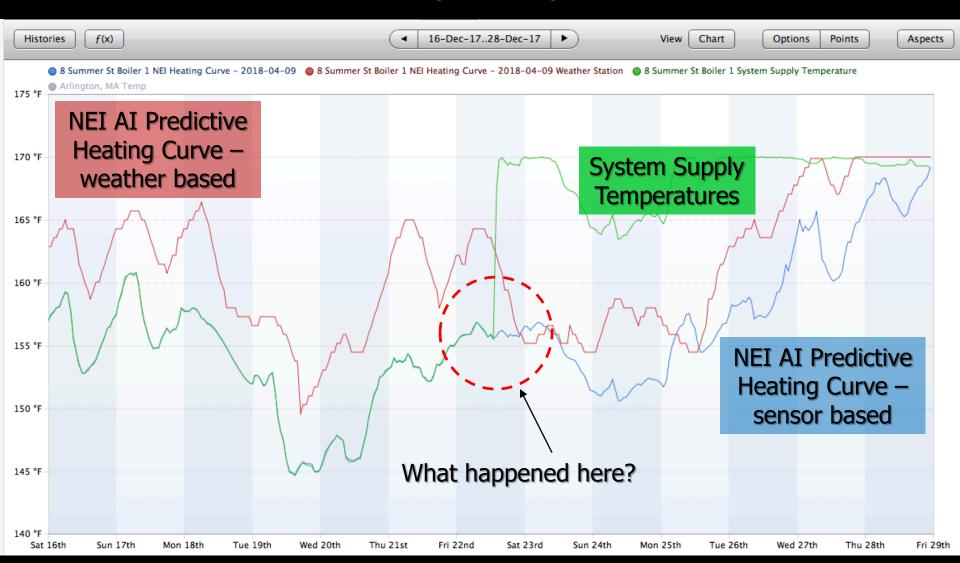


Improper Maintenance



Hydronic System Roxbury, MA

Settings Changed



Hydronic System Arlington, MA

Something Broke



Hydronic System Boston, MA

Past Lessons

	Unit	Description of Problem	Date Requested	Date Completed	Mechanic	Temp. Living	Temp. Dining Room	Bedroom #1	Bedroom #2	Bedroom #3	Bedroom #4	
	17/413	No heat	12-29-17			Room 69°	69°	69	700	70		トゲー
	24/684		12-29-17			700	700	70°	-	-		1
	21/713	No heat	12-30-17		71170	690	69°	700	-	-		H
	21/628	,		01-02-4		630	63	64	-	-		t
	21/695	. /-	01-07-18	01-02-18	Rigo	69°	69°		_	-	-	
	2/110	No heet	01-01-18	01-02-18	Housuz	710	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	70°		69°	69°	
	21/213	No heat	01-02-18	01-02-18	Hensul	沙。	69"			100		
14.	21/618	, ,	01.02-18	31-02-18	Hensen	69°	69°	64.				
	3/114	Nohest	12-30-17	92-30-17	Rigo	69°	620	68.	67.	66	65°	
	21/666	Noheat	12-30-17	12-30-17	Rigo	70°	69-	69		100		+
	21/642	No heat	12-31-17	17-31-17	Rigo	70.	700	-	•	1000		+
	21/648	No heat	12-31-17	12-31-17	Rigo	69	1			110	121	0
	3/313	No heat	61-03-18	01-03-18	Rigo	65°		The second second	670	66°	67	
4 7 8	الماد	1 /	Day and the last	- 18	(279D)	1100	1110	12	14	61	62	





Combos of All 40

Fault Codes

Supply Temp

10

Status

Return Temp

10

DHW Recirc Temp

Tank Temp







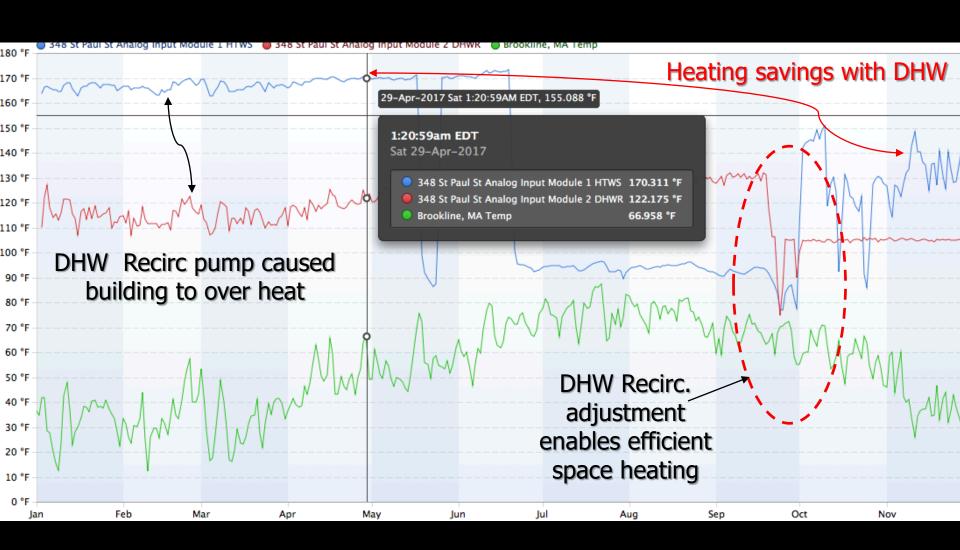








Combinations of Real Time Data Tell The Stories of What is Really Happening in YOUR Boiler Room



LEFT SIDE

Fast Candy -

1:30

How many can you get right in 1.5 minutes?

- 1. Affects system efficiency
- + X
- 6. Common installation issue
- X

- 2. MOST important factor!!
- + X
- 7. Operations improved how
- X

- 3. Impact of equip cycling
- + X
- 8. Health & Safety Concern
- X

- 4. Overlooked Maintenance
- + X
- 9. Responsible party (ies)
- + X

5. Critical data points

- + X
- 10. Your first & last name

+ X





RIGHT SIDE

Fast Candy

1:30

How many can you get right in 1.5 minutes?

- 1. Affects system efficiency
- + X
- 6. Common installation issue
- X

- 2. MOST important factor!!
- + X
- 7. Operations improved how
- X

- 3. Impact of equip cycling
- + X
- 8. Health & Safety Concern
- + X

- 4. Overlooked Maintenance
- + X
- 9. Responsible party (ies)
- + X

5. Critical data points

- + X
- 10. Your first & last name

F X





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