

PI System for Effective Operation

Presented by

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conEdison a conEdison, inc. company



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Con Edison: Overview

Regulated Energy Utility providing Electric, Gas, and Steam









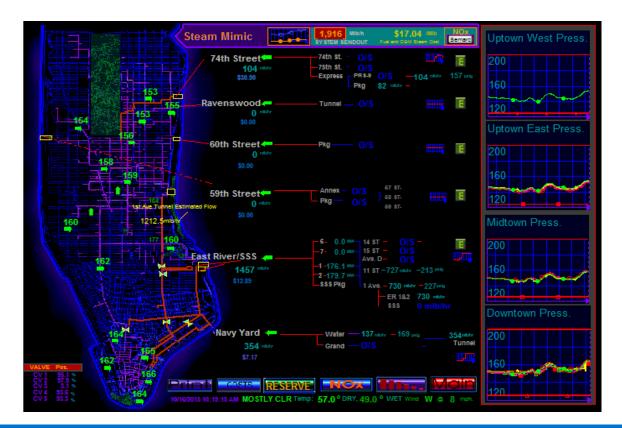
Electric: World's largest system of underground cables - 94,000 miles and 36,000 miles of overhead wires.

Serving 3 million Customers in NYC and Westchester.

Gas: Serving 1 million Customers in Manhattan, Bronx, parts of Queens and most of Westchester through 4,200 miles of gas mains and nearly 400,000 service pipes.

More than 200 Million Dekatherms a year.

Con Edison: Steam System



System Overview

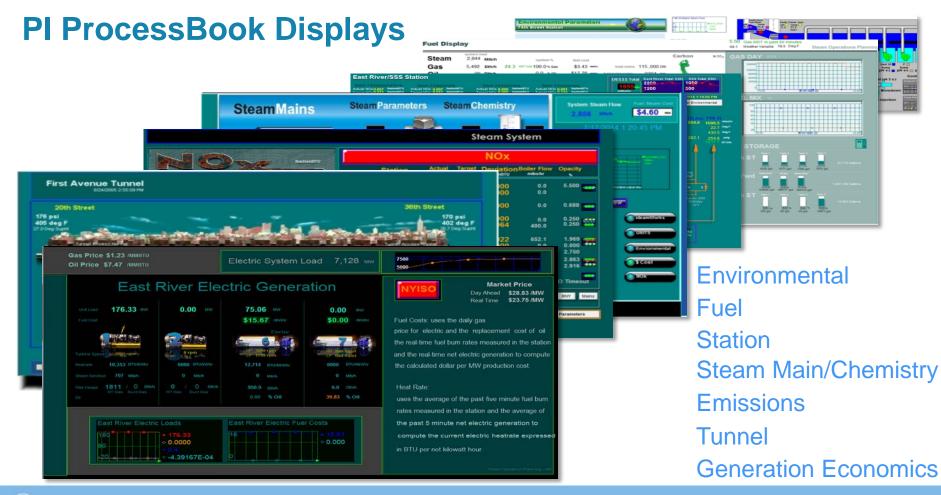
World's largest Steam System

105 Miles of Steam Mains serving Manhattan

130 years of Service

~25 Billion pounds/year Serving 3 Million People

Used for Heat, Hot Water, A/C ...



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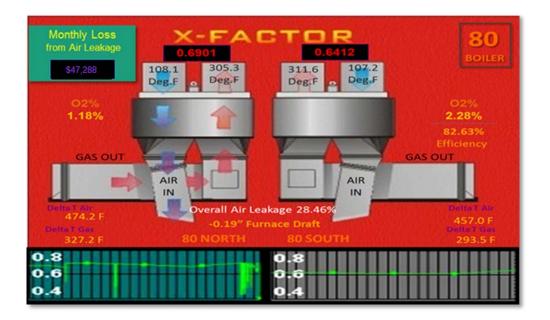
Storm mimic/ Corporate Emergency Response

Leveraging the PI System for Emergency Response decision making



Air Leakage (X- Ratio calculations)

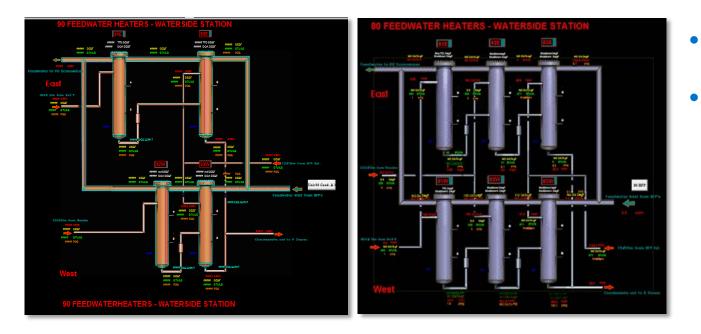
Using Real-time data to target Efficiency Improvements



- Problem Identified through PI System calculation
- Loss Quantified in the PI System
- Improvement Progress Tracked in the PI Server
- Savings = \$388,000

Feedwater Heater Testing

Using PI PE Steam Functions for on-line equipment assessment



- Frees up Manpower
- Provides Timely
 Feedback on critical
 equipment

Cost Management

Using Real-time data to generate Cost Awareness



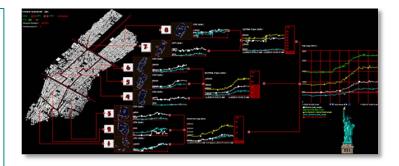


Integrate Customer Data

with existing

Station and Street

Condition Information



More efficient Operation for :

- Forecast
- Control of losses
- Emergency Management



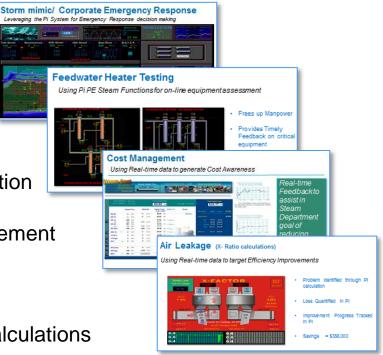
Summary

PI System Benefits to Steam Ops

- Provides information to Enable Efficient Decisions in Real-Time
- Labor Saving
- More Frequent Assessment of Equipment Condition
- Real-Time Cost Awareness for improved Management
- Targets Cost Savings for Customers

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Provides user flexibility to create displays and calculations



"... Work Smarter, Not Harder..."



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Contact Information

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Questions

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State your name & company

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'he **Power** of **Data**

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Email:				
Quality and content of the presentations	Poor	Good	Excellen	nt N/A
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The Journey To Real-Time Operational Intelligence	\circ	\circ	\circ	\circ
The Power of Connection	\circ	\circ	0	\circ
Tank Level Management System	\circ	\circ	\circ	\circ
Using the PI System to Aid in Troubleshooting Operational Aspects of Oil and Gas Well Drilling and Completion	\circ	\circ	\circ	\circ
Unleash your Infrastructure	\circ	\circ	\circ	\circ
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Gracias

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