**OSIsoft**

# Regional Seminar Series

# Critical Facilities, Data Center,& IT

## Mike Mihuc, Regional Manager Northeast, OSIsoft

# State of Market

- Need to reduce costs

- Public requirement to promote sustainable policies

- Data centers are running out of capacity

- Potential Federal and State regulations

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# Expand your PI for the infrastructure

Lines of Business/ Operations

IT Infrastructure

Data Center Infrastructure

Did you know PI can be applied to these infrastructure's for great value

Facility Infrastructure

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**Facility Customers**

**Data Center Customers**

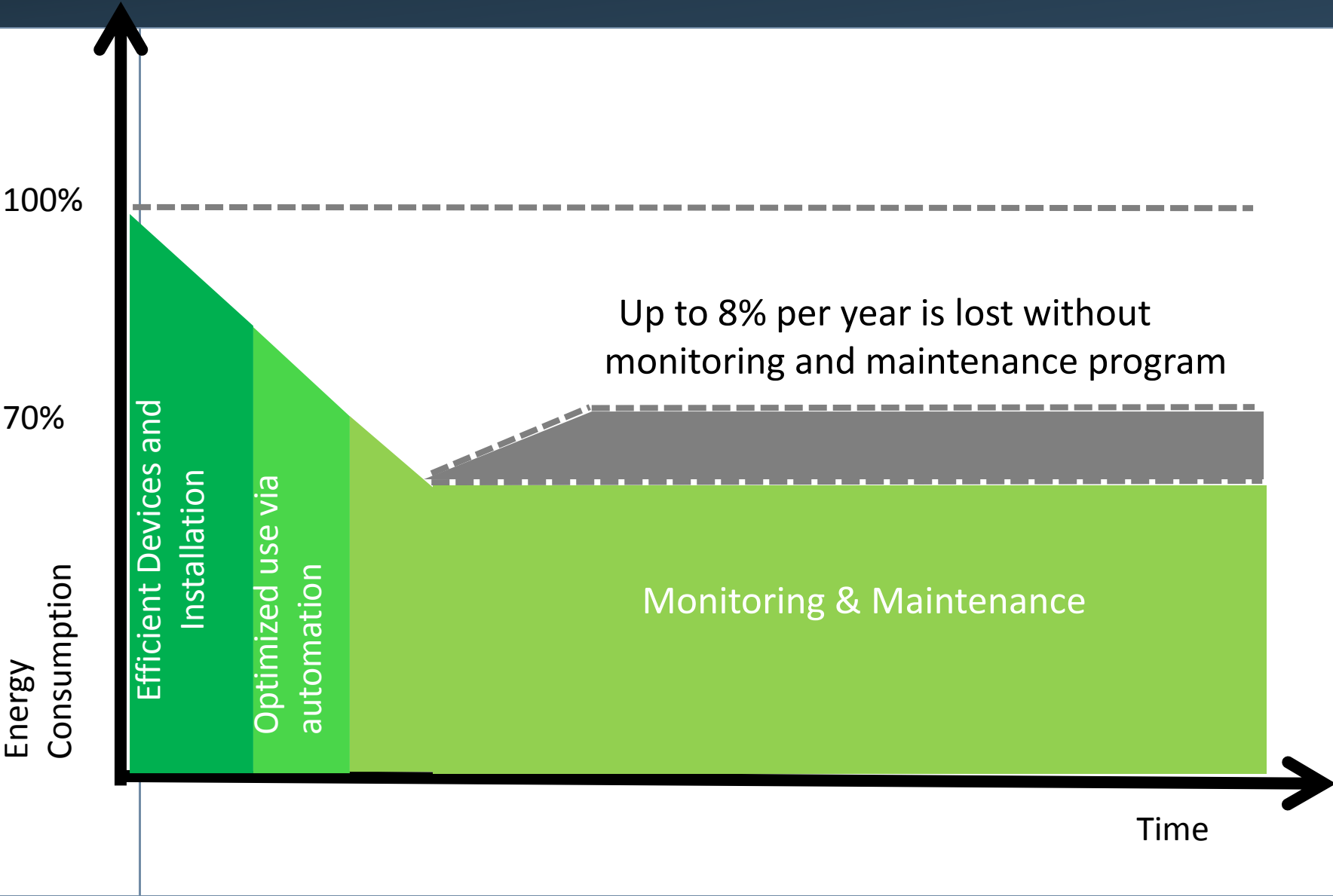Empowering Business in Real Time.

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- **Kodak Park facts**

- Area>20,000,000 Square Feet

- 11,000 Employees

- Operates its own Fire Department

- Operates its own rail road

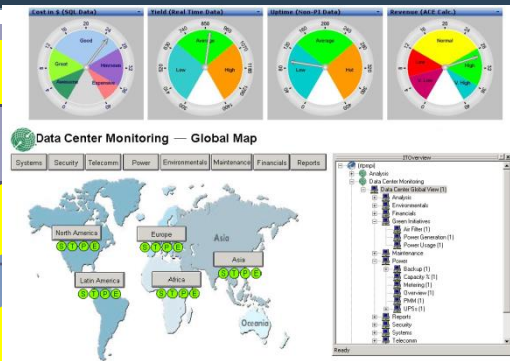- Performs its own water and waste water treatment

- Operates 2 power plants

- Benefits >$10MM !

**Measurements**
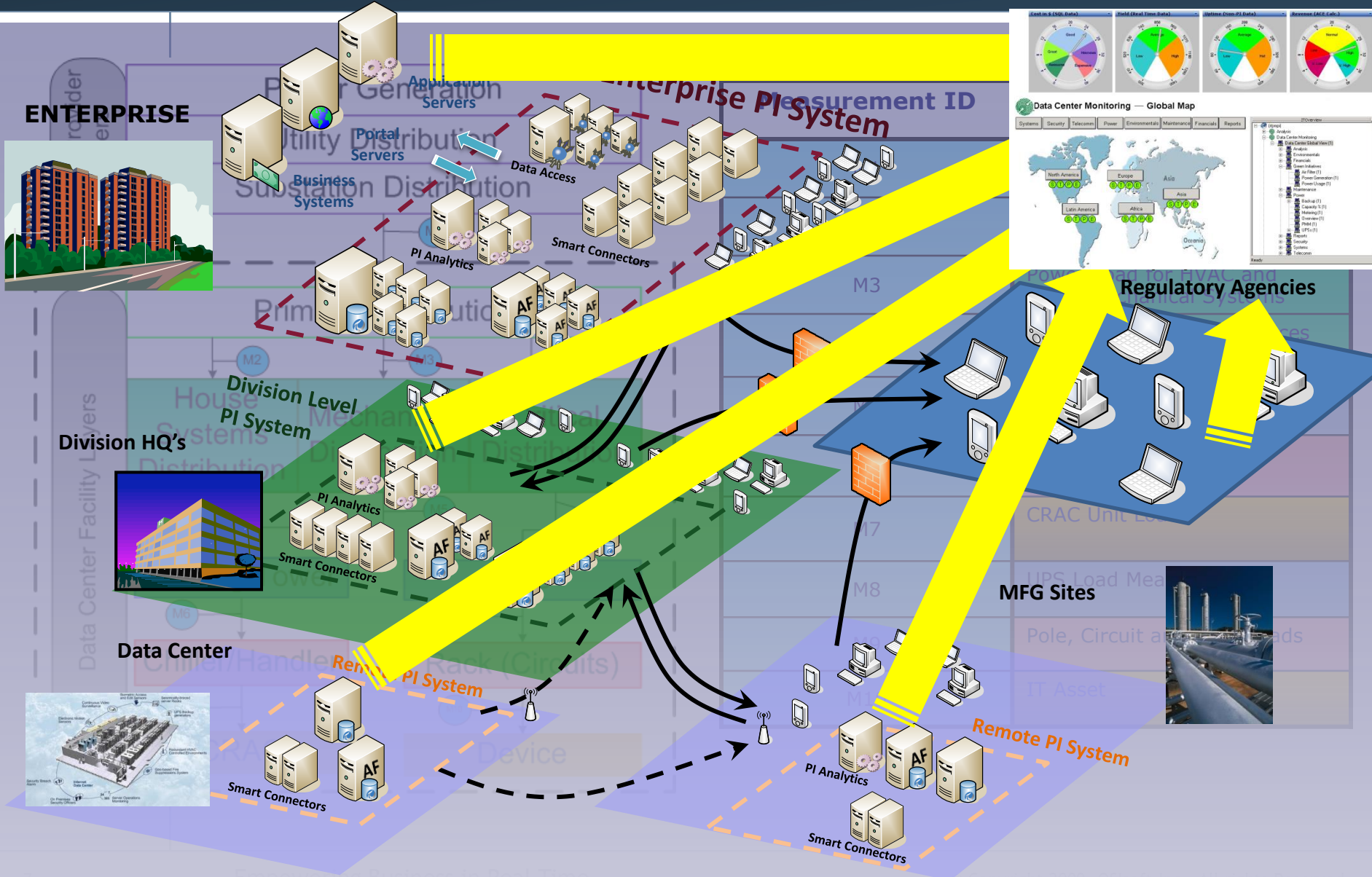- 600 **Electric** Distribution **Meters**
- 600 Additional Distribution **Meters** for Steam, Chilled water, Brine, Compressed air, Process water, Nitrogen, Natural gas etc.
- Significant **Metering** Used within the Power Houses to Manage the **Generation** Side

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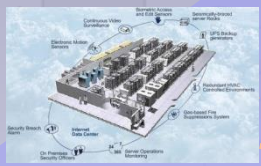
# What levels will PI Connect

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**ENTERPRISE**

Power Generation
Application Servers
Enterprise Measurement ID
PI System

Utility Distribution
Portal Servers
Data Access

Substation Distribution
Business Systems

Smart Connectors

PI Analytics

Data Center Monitoring — Global Map

Regulatory Agencies

Primary Distribution

House Systems Distribution
Division Level PI System

Division HQ's

Mechanical Virtual Distribution

PI Analytics

Smart Connectors

MFG Sites

Data Center

Remote PI System

Smart Connectors

PI Analytics

Remote PI System

Smart Connectors

# System Components

- OSIsoft **PI System** – captures data from all meters, plant control system, and building automation systems

- Revenue Meter Interface

- Plant Control System & Meters

- Building submeters

- Building automation systems

- Network

## Measurements

- **Hot water** meters
- **Electric** meters (including HV substations)
- Assorted **gas, oil** & other meters
- **Chilled water** meters
- **Steam** meters

# Get Started today-ADD Value to the PI investment

## Engage with OSIsoft for understanding how

**Expand the use of PI For IT –**
How to Utilize:
MCN Health Monitor
PI for IT Monitoring

**Expand the use of PI for Critical Facilities**
How to Utilize
Add- PI Interfaces BACnet, Modbus, OPC

## Take advantage of Benefits

"While metering alone does not save energy, the information from the meters, when acted on, can result in significant reductions — typically **5 to 15 percent**"

- Jean Lupinacci, Director, Commercial and Industrial Branch of Energy Star®
- U.S. Environmental Protection Agency (EPA)

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**UC Davis**

http://facilities.ucdavis.edu/Dashboard/

**Queen's University**

http://livebuilding.queensu.ca/

**Rochester University**

http://meters.energy.rochester.edu/rc%20sharepoint%20files/hutch%20hall%20electric.aspx

**2009 User Conference Critical Facilities Track -**

Industry Observations and Trends (David Jump, Quantum Energy) - PPT
The Daily Miracle of Internet Connectivity (PI Data Centers) (Greg Dumas, DST Controls, Ernest Holloway, Pamela Brigham, Equinix) - PPT
Real time Data for Data Center and Lab Energy Efficiency (Chris Nolan, Cisco Systems, Ken Morikawa, OSIsoft) - PPT
The Data Center Dashboard (Steven Berkovich, Teresa Tung, Accenture) - PPT
Understand How PI is being used at Microsoft in the 10min. Wrap (Scott Mauvais, Microsoft Technology Center) - PPT

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# Thank you