

# Experience



COLLECT

**HISTORIZE** 

**FIND** 

**ANALYZE** 

**DELIVER** 







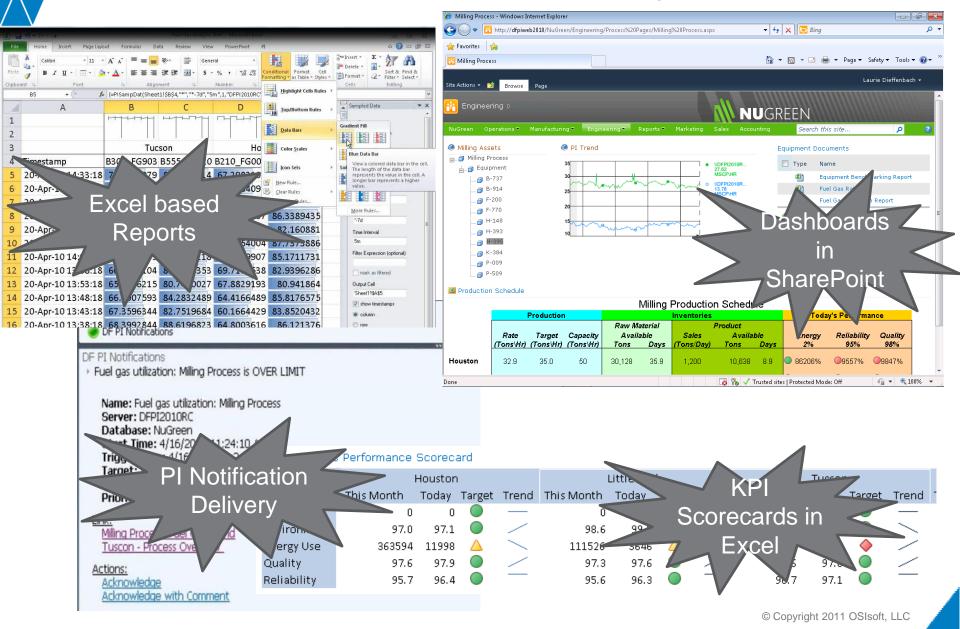




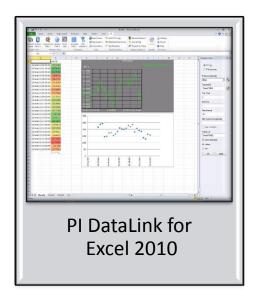


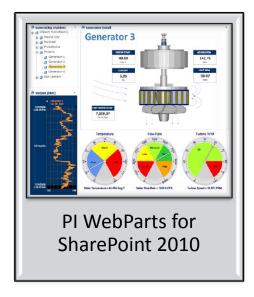


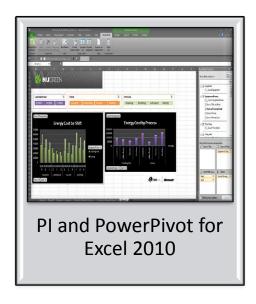
#### What's New with Visualization in PI System 2010?

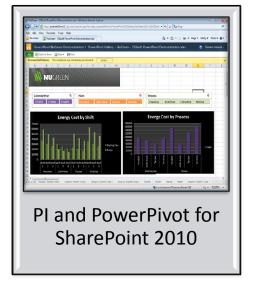


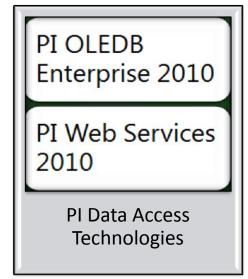
## Visualization for PI System 2010

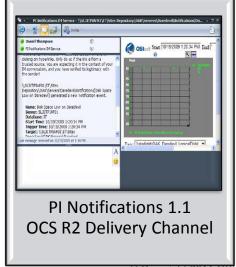








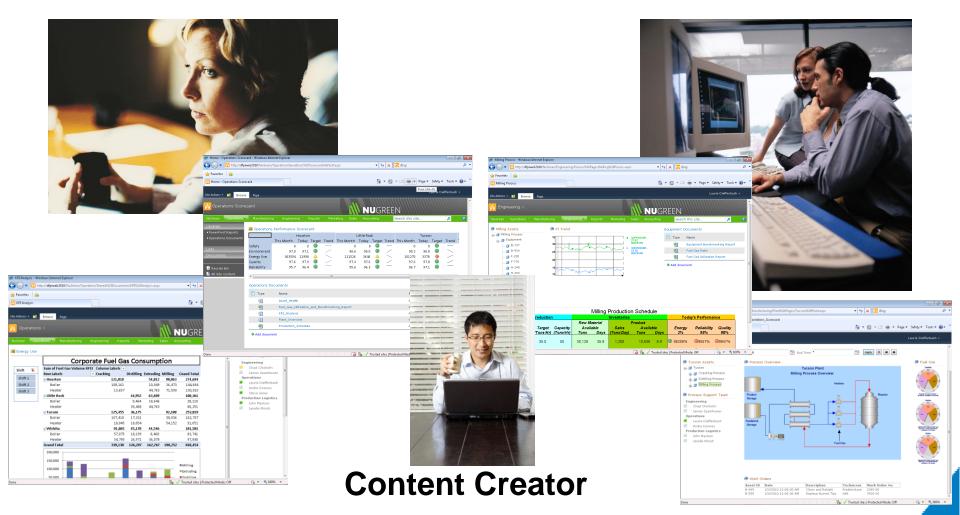




#### **Role-based Dashboarding**

Management

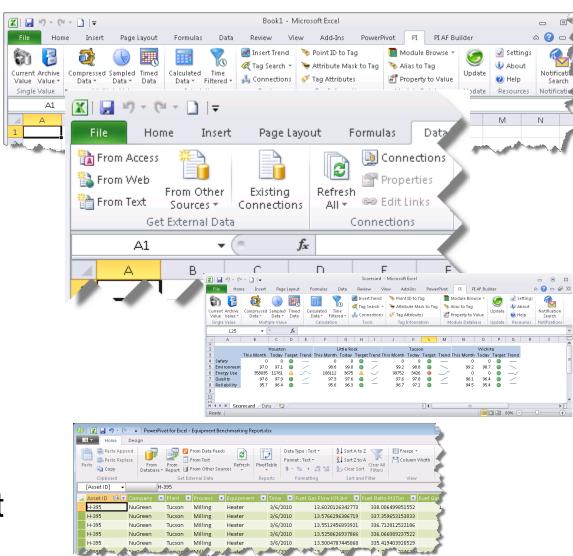
 Knowledge Worker Engineering Staff



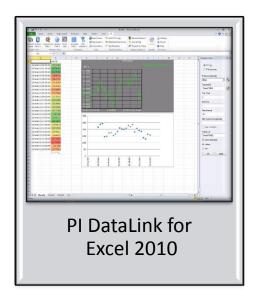
#### **Content Creator Roles**

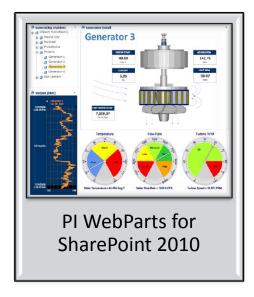
 Use different data sources

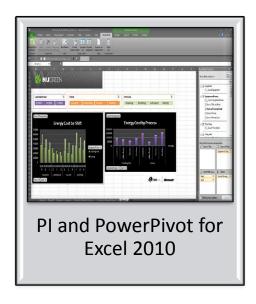
- Create scorecards
- Create multidimensional reports
- Publish to SharePoint

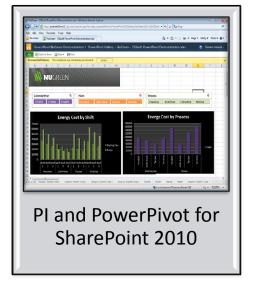


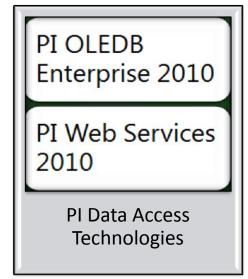
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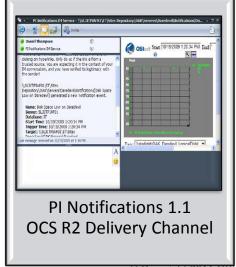




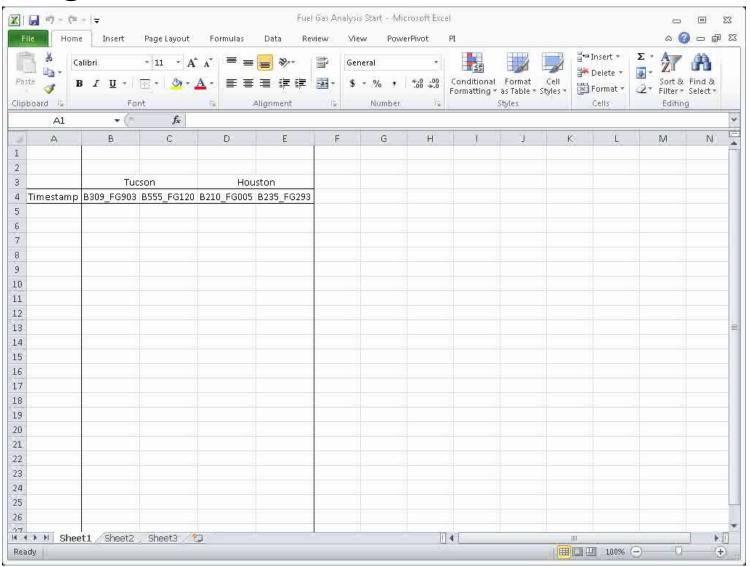




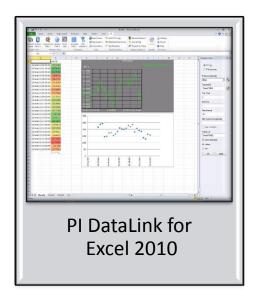


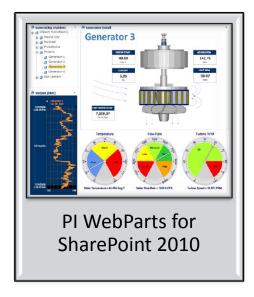


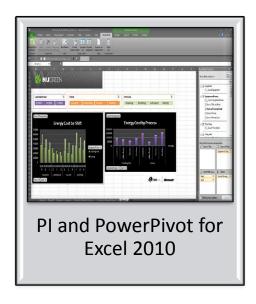
#### Using Excel 2010 features with PI DataLink

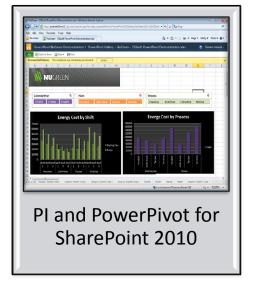


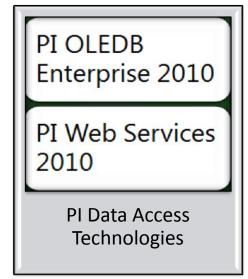
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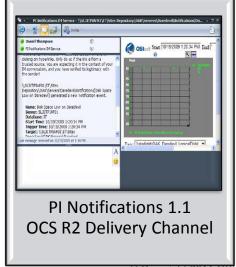




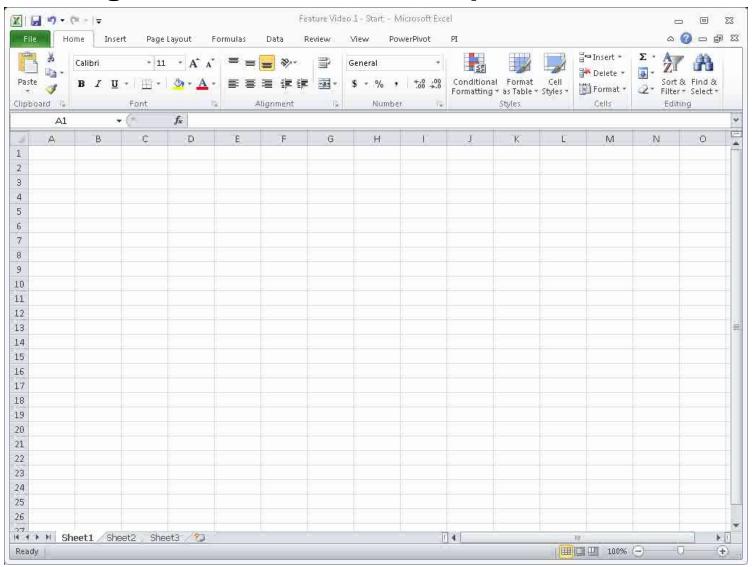




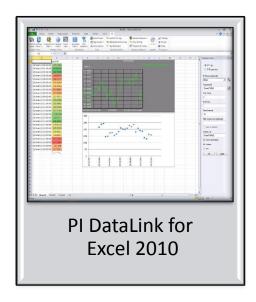


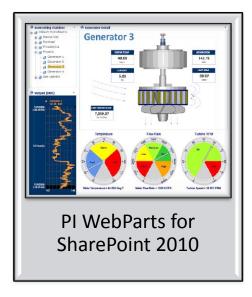


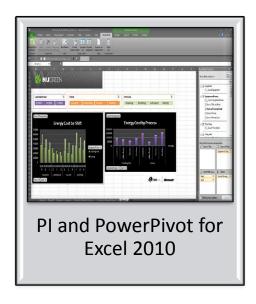
#### **Building Multi-dimensional Reports**

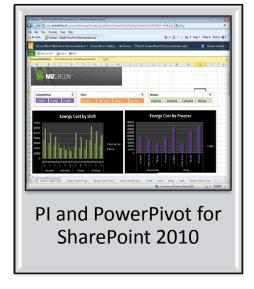


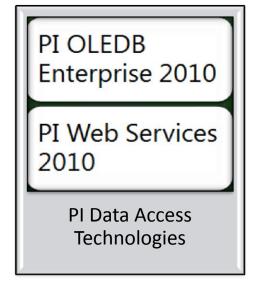
## Visualization for PI System 2010

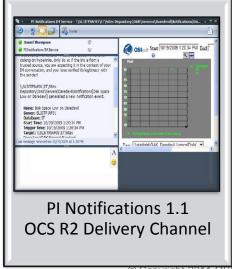




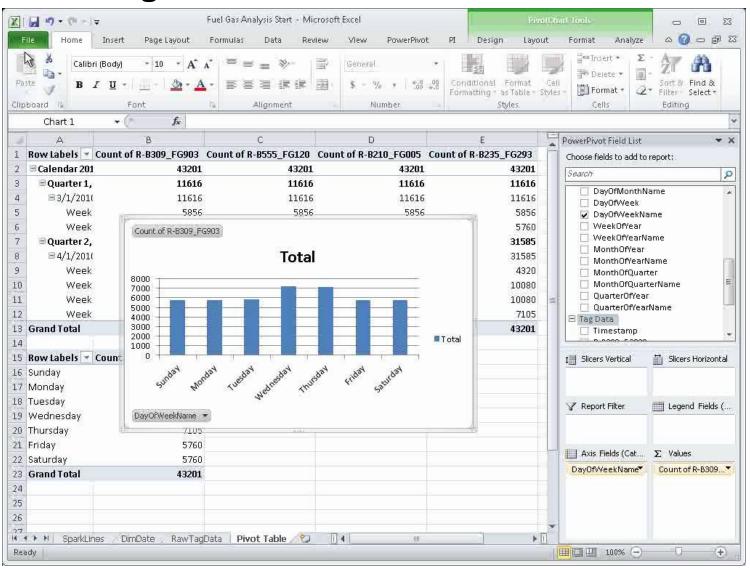








#### **Publishing to SharePoint**

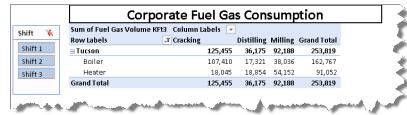


#### **Management Roles**

Easy navigation to needed information



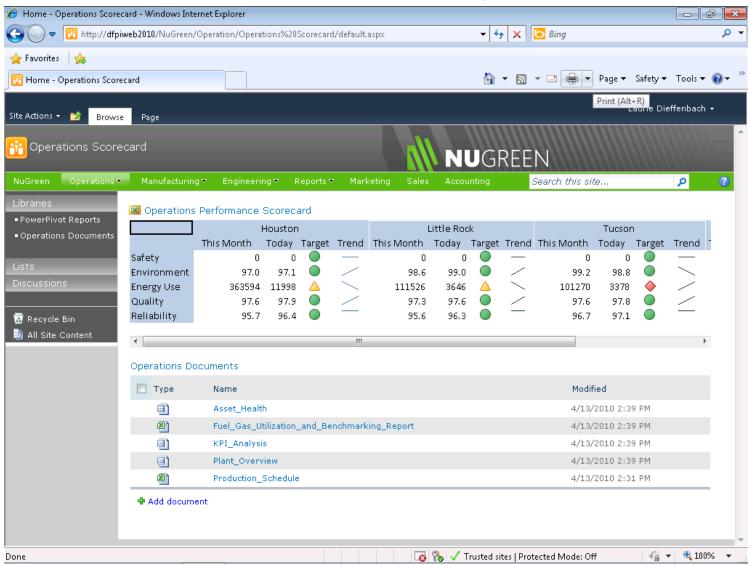
Content is already built, but can interact with it to focus on an issue



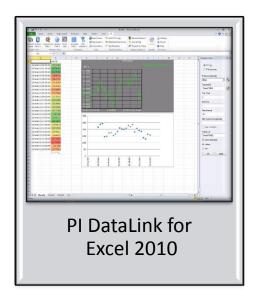
Easy access to assistance from experts

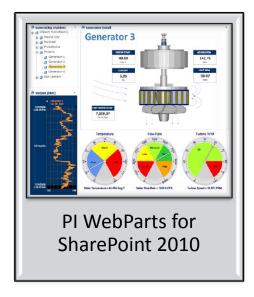


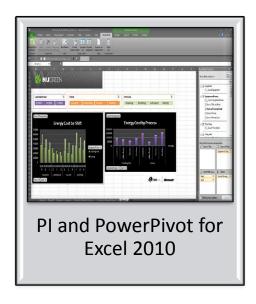
#### Scorecards in SharePoint using Excel Services

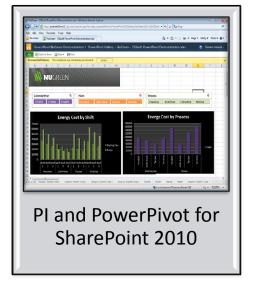


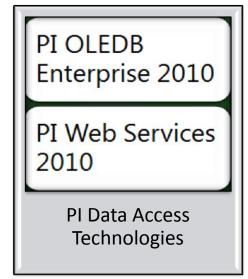
## Visualization for PI System 2010

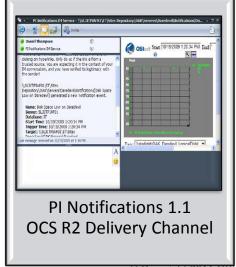




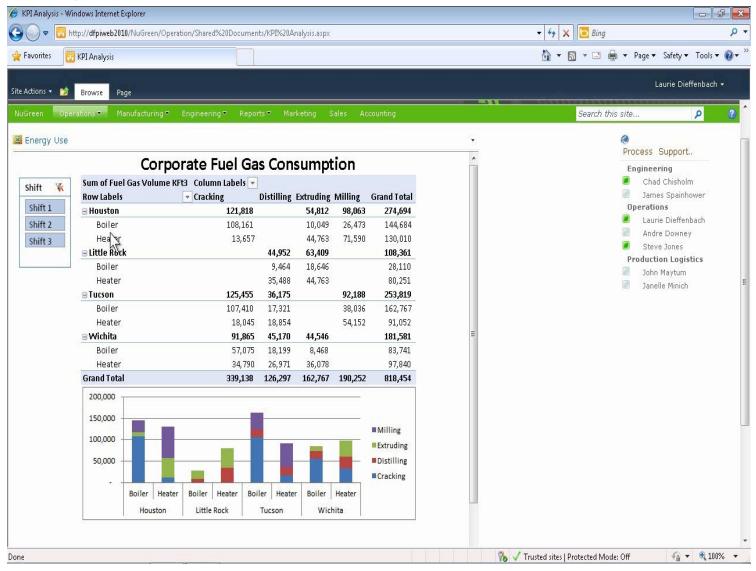








#### **Using Reports in SharePoint**

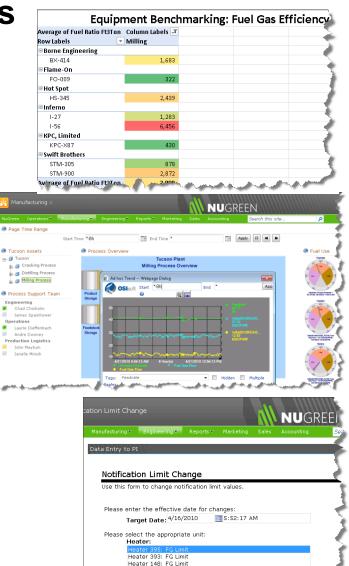


#### **Knowledge Worker Roles**

Access to all needed tools

Contribute material for use by others

Act to resolve problems and prevent recurrence

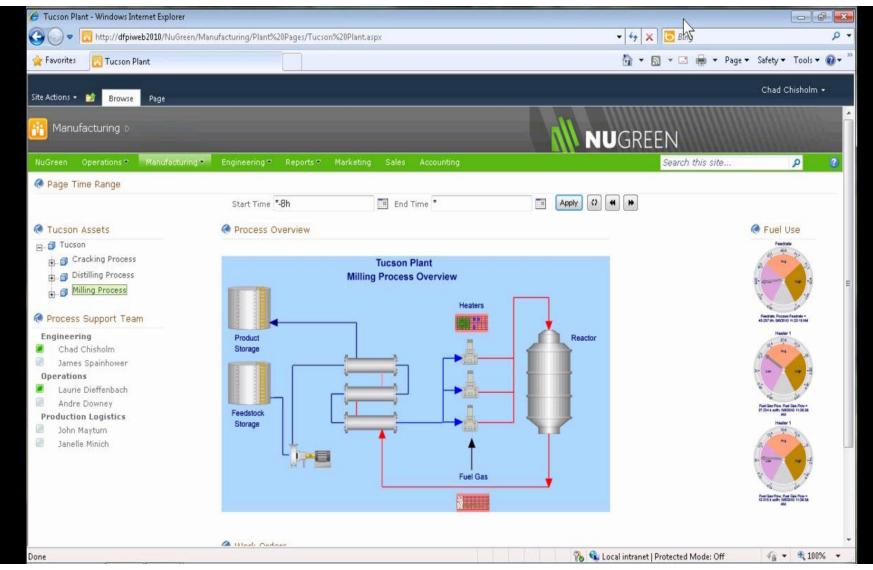


Please enter a new value Notification trigger limit:

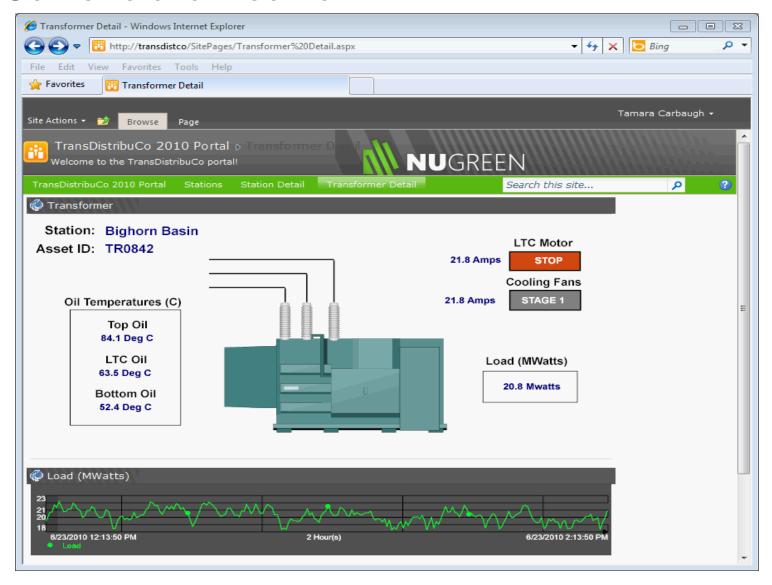
2011 OSIsoft, LLC

Trigger Limit:

#### **Appropriate Detail Available**



#### Get to relevent content



#### PI WebParts 2010



Legacy maintenance software



**Excel Reports** 



- Functional
- Maintenace staff is trained on it
- Company has made a large investment in it and has created a web front end for it



 Reports that engineers and managers rely on

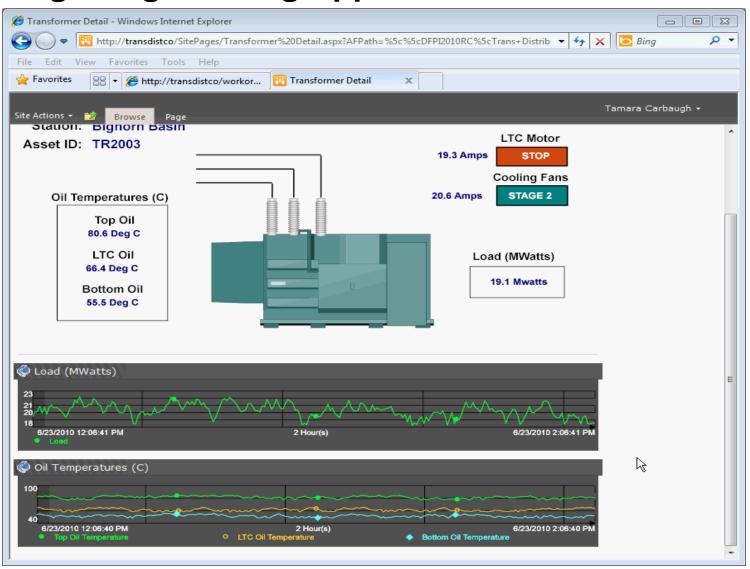


## Manuals, Safety, Maps

- Key data that is stored online
  - Safety
  - Equipment manuals
  - Weather
  - Maps

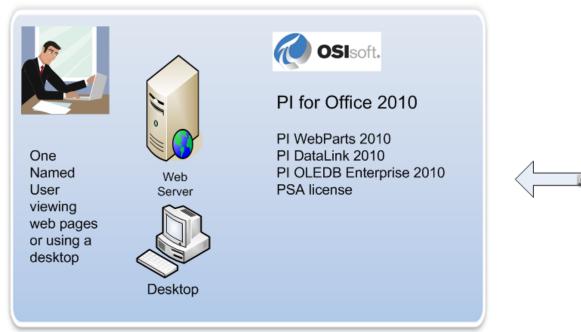
Integrate the PI System with existing investments

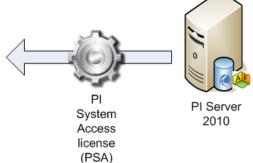
#### **Integrating Existing Apps with PI WebParts**



### PI WebParts 2010

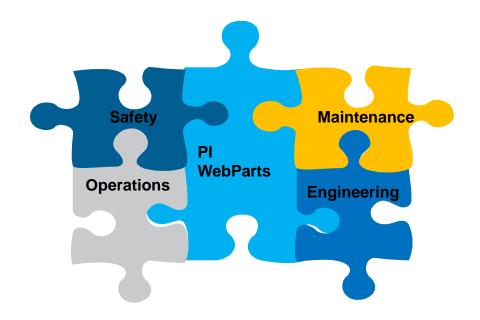
Pairs with Microsoft Office 2010 components



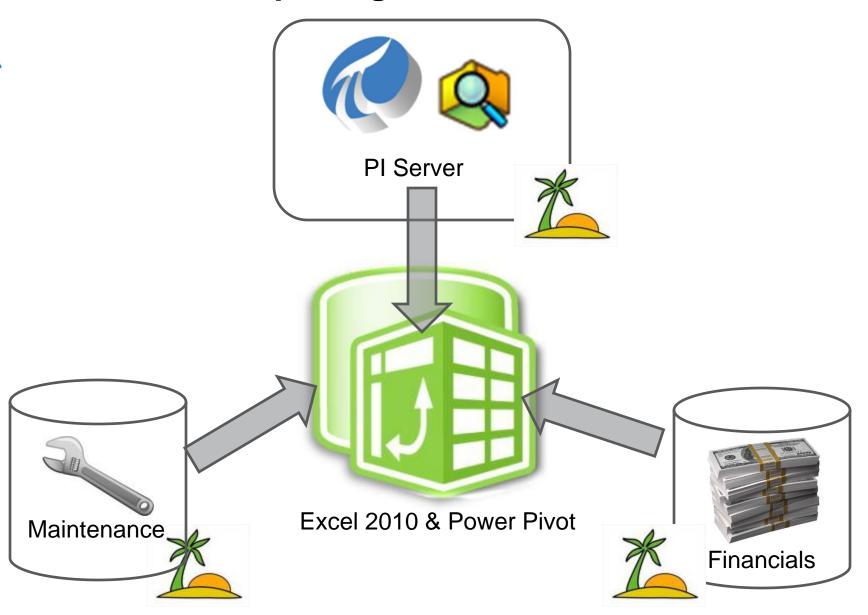


### Value of PI WebParts 2010

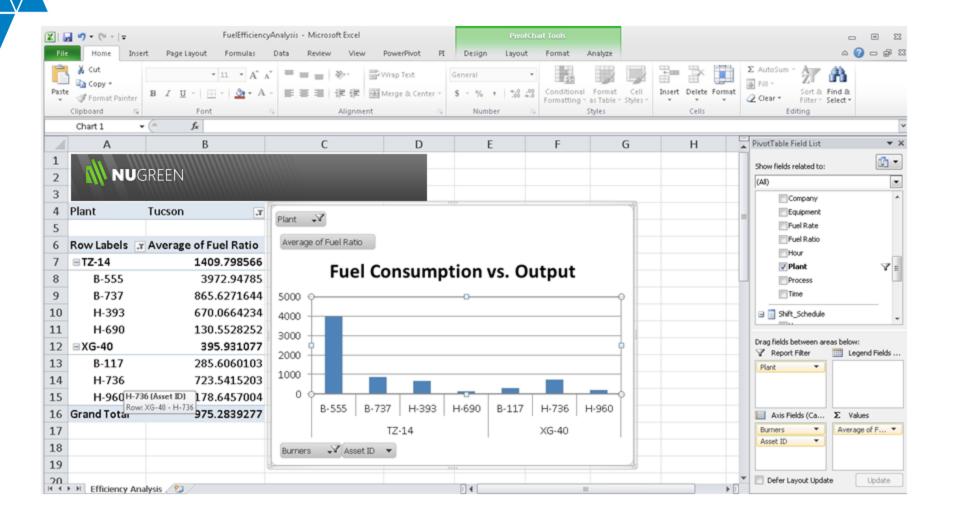
- Aligns with
  - PI for Office 2010 (2007 still supported)
  - PI Server 2010
- Easy configuration, no code configuration
- Leverage existing applications
- Fewer pages to maintain



### **User-driven Reporting**



#### PI DataLink + Excel 2010 + PowerPivot



#### What's New in PI DataLink Server 2010

- Supports SharePoint 2010 (32-bit)
   (Microsoft Office 2007 and Office 2003 as well)
- Internationalization and Localization

**English** 

French

German

Spanish

**Portuguese** 

Russian

**Simplified Chinese** 

**Japanese** 

Korean

#### What's New in PI DataLink Server 2010

- Supports SharePoint 2010 (64-bit)
   (Microsoft Office SharePoint Server 2007 as well)
- Internationalization and Localization

**English** 

French

German

Spanish

**Portuguese** 

Russian

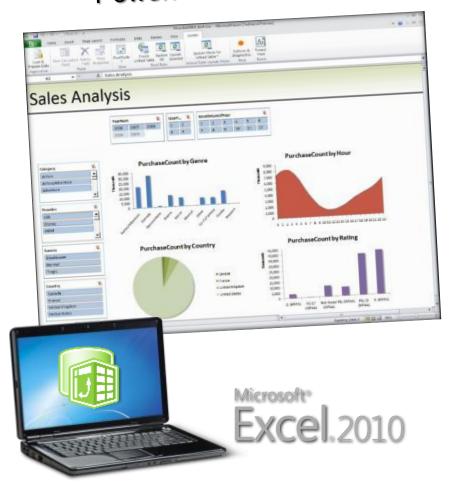
**Simplified Chinese** 

**Japanese** 

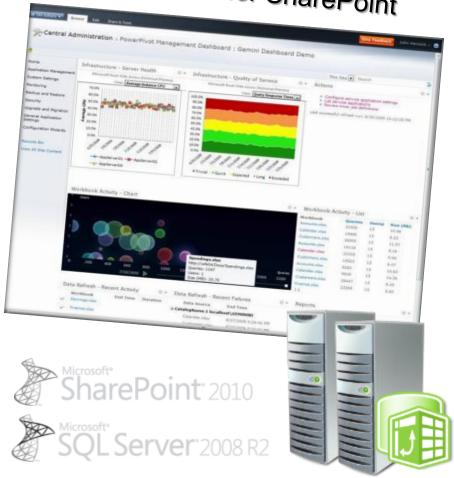
Korean

## **Managed Self Service BI**

### PowerPivot for Excel



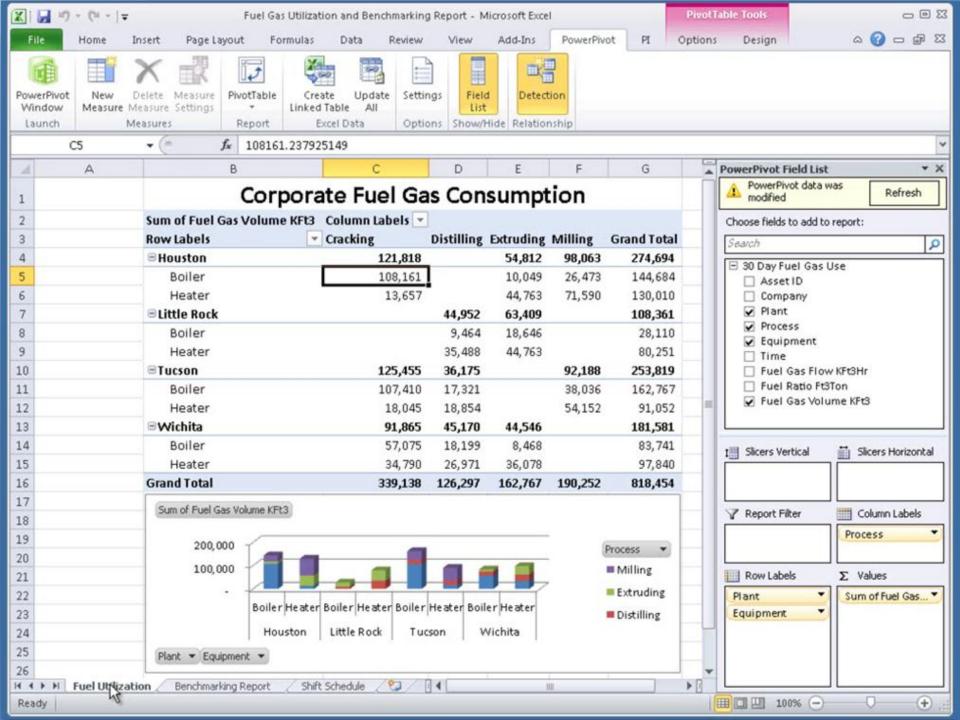
## PowerPivot for SharePoint



## **BI for Manufacturing**

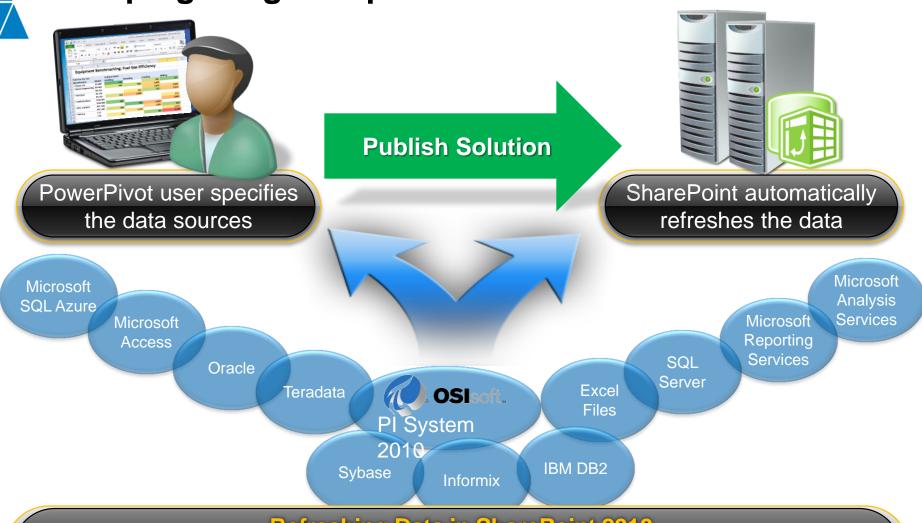
#### 30 Day Corporate Fuel Gas Consumption

					•					•			
	Shift 🌾	Sum of Fuel Gas Volume Column Lab   ▼											
		Shift 1 Row Labels  Houston		_ Cı	racking	Distill	ling	Extruding	Milling		Grand Total		
					121,929	)		54,828	98	3,453	275,210		
Fuel	Shift 3  Boiler Heater		r		108,315	5		10,023	26	,842	145,180		
Man				13,614	ļ		44,804	71,611		130,029	g		
■Fla		□ Little F	Rock			4	5,024	63,146			108,169		322
		Boile	r		9,55			18,341			27,900		
∍Во		Heate	er			3	5,465	44,804			80,269		
		■Tucson	1		126,003	3	6,492		92	2,282	254,777		1,684
⊟Но		Boile	r		107,830	) 1	7,662		38	,106	163,598	1	2,422
		Heate	er		18,173	3 1	8,829		54	ļ <b>,1</b> 76	91,178		
		■Wichit	а		91,736	5 4	5,233	44,704			181,673		
■ Sw		Boile	Boiler		56,933	3 1	8,295	8,628			83,856		873
		Heate	er		34,803		26,938 36,07		5		97,817	1	2,902
■ KP		Grand Total			339,668	3 12	6,748	162,677	190	,735	819,829		
		Sum of Fuel 200,000 ¬	Gas Volume KF	t3)									440
■Inf		150,000									Process ▼		1,271
		100,000							_		Milling		6,393
		50,000									— ■ Extruding		
Gran		- +	Boiler	Heater	Boiler	Heater	Boiler	Heater	Boiler	Heate	■ Distilling		2,000
					'			Tucson	Wichita		' ■ Cracking		
	Houston   Little Rock   Tucson   Wichita												
		Plant ▼ Ed	quipment 🔻										





#### **Keeping Insights Up to Date**



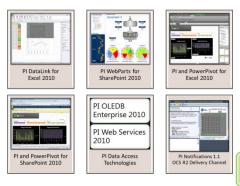
#### Refreshing Data in SharePoint 2010

SharePoint can refresh the data from the specified data sources over the Web, in the cloud, from internal databases, PI System 2010, Excel files, and any other location with network connectivity.

#### Self-service BI Toolkit for the PI System

- Dimensions and Facts
  - PI Asset Framework (PI Server 2010)
- Datasets for BI Data Extraction
  - PI OLEDB Enterprise 2010 (PI for Office 2010)
- Desktop Analysis and Cube Configuration
  - Microsoft PowerPivot for Excel 2010
- Enterprise Accountability
  - Microsoft PowerPivot for SharePoint 2010
  - Microsoft SharePoint 2010
  - Microsoft SQL Server 2008 R2

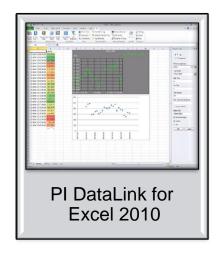


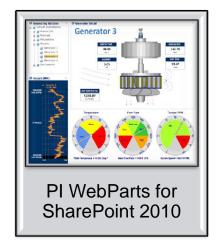


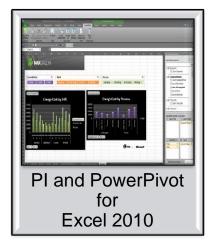


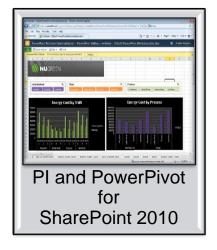
# PI for Office 2010 Visualization for PI System 2010

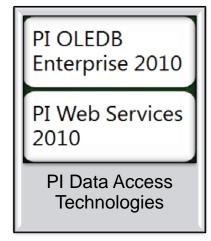
Everything you need to work with PI System data in Microsoft Office (2010)

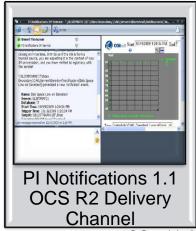


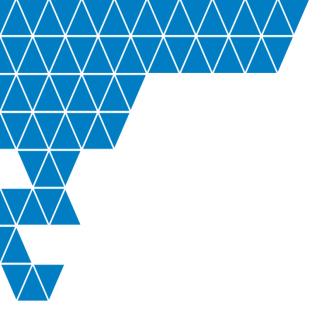












# Thank you

## Visualization for PI System 2010

