

Visualizing PI Data with Dashboards and Reports

Jay Lakumb, Product Manager



Experience









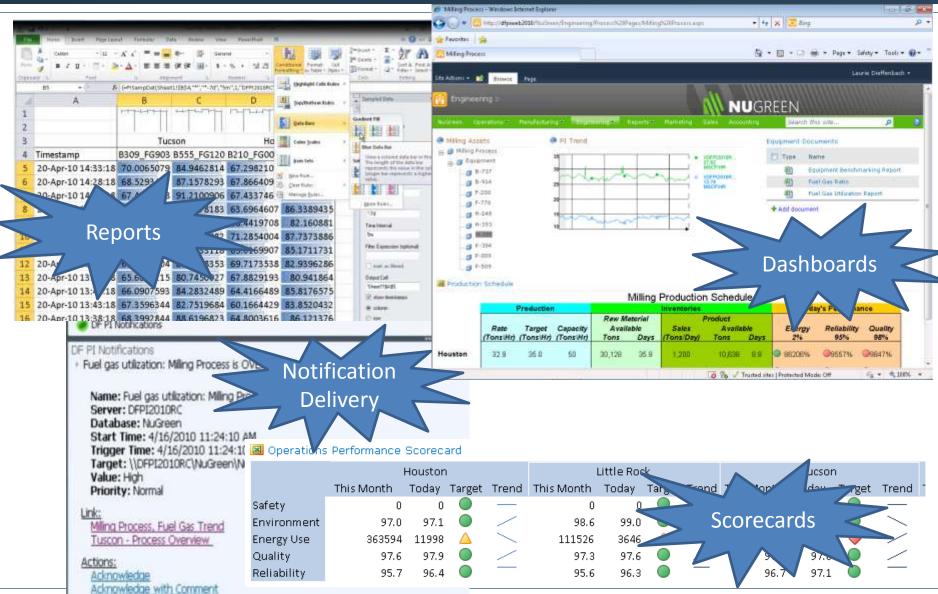




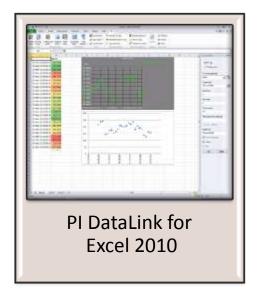


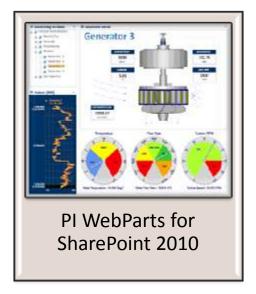
What's New with Visualization in Pl System 2010?

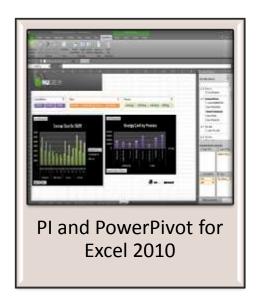


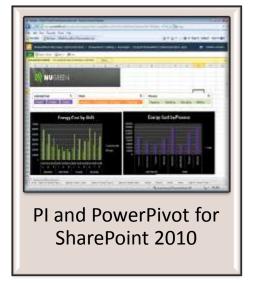


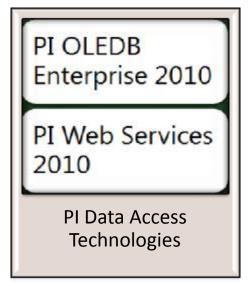


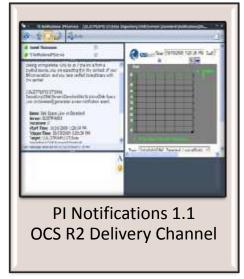






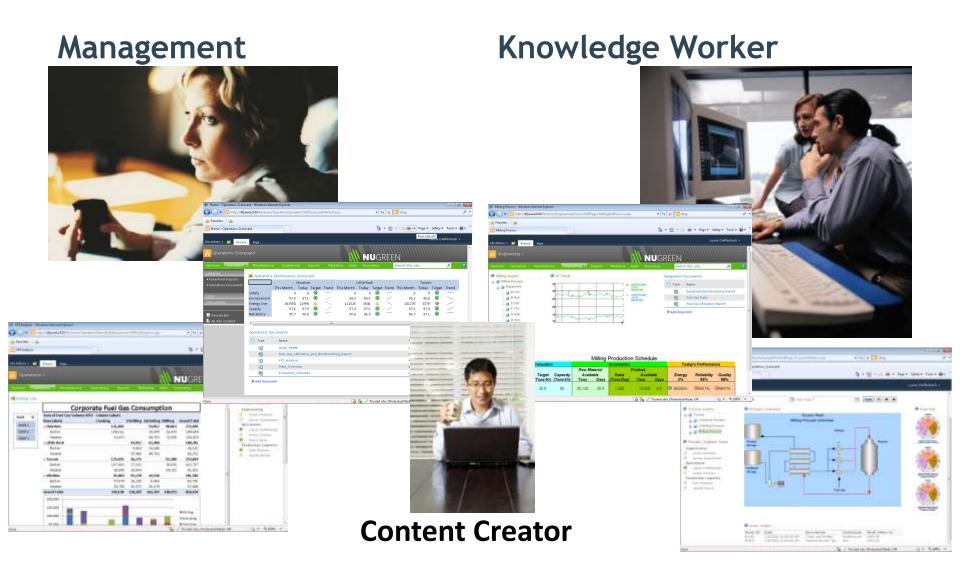






Role-based Dashboarding



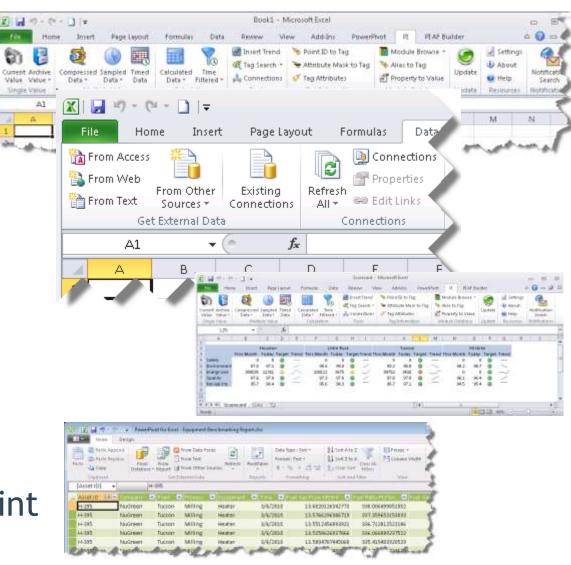


Content Creator Roles



 Use different data sources

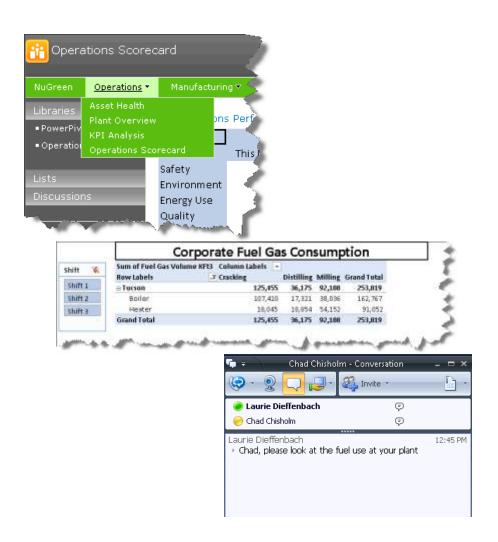
- Create scorecards
- Create multidimensional reports
- Publish to SharePoint



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



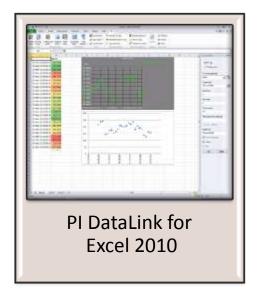
Knowledge Worker Roles

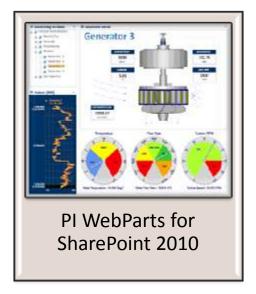


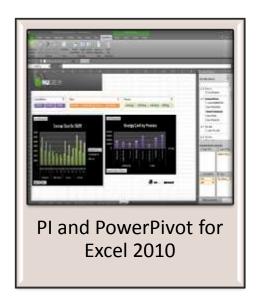
- Access to all needed tools
- Contribute material for use by others
- Act to resolve problems and prevent recurrence

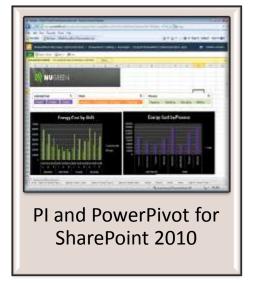


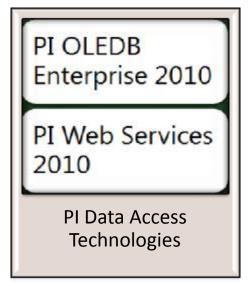


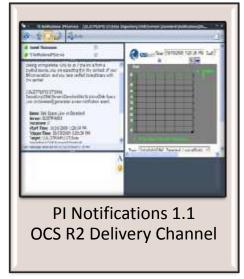


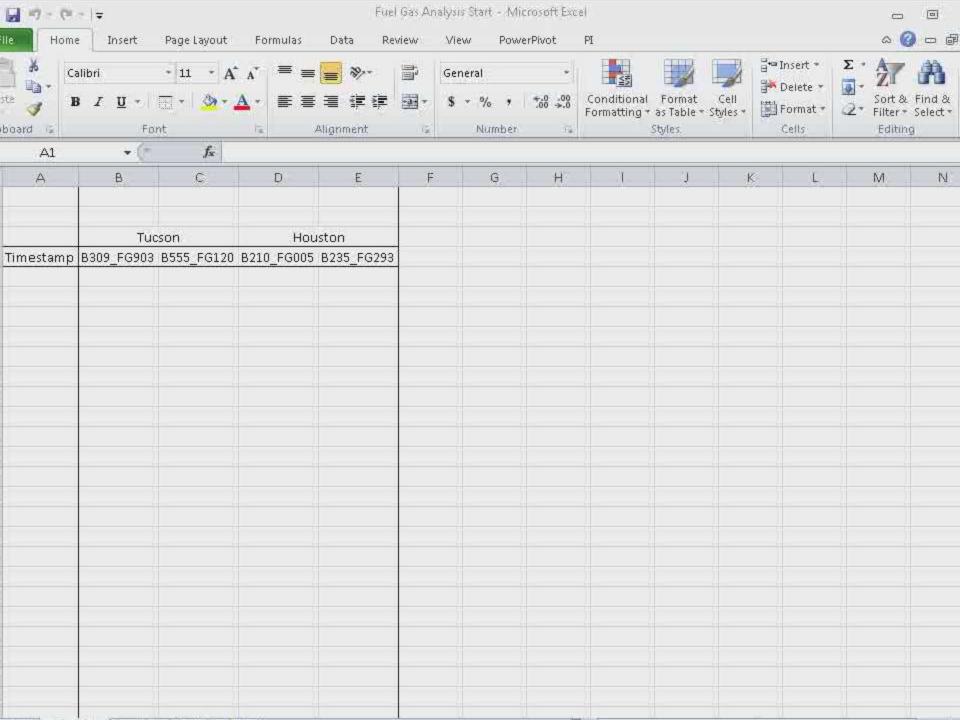


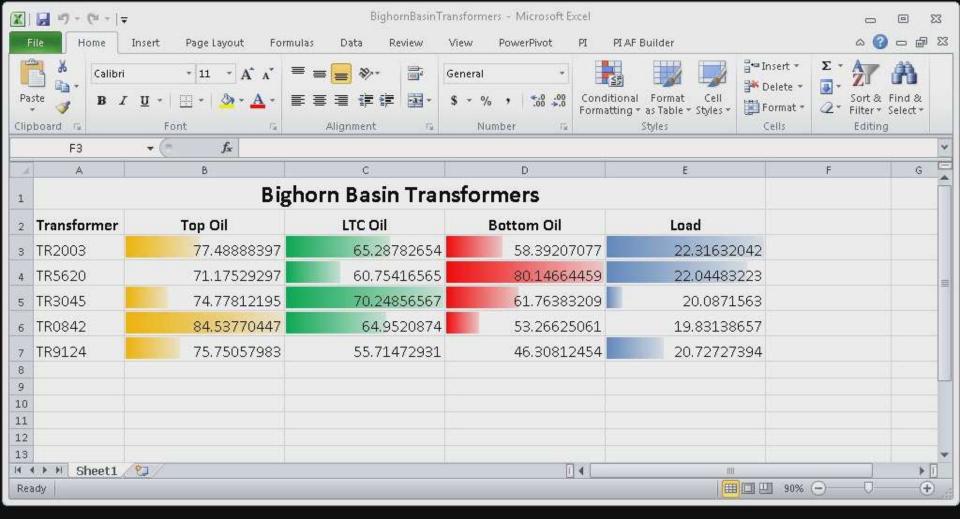












What's New in PI DataLink 2010



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

English, French, German, Spanish, Portuguese, Russian, Simplified Chinese, Japanese, Korean

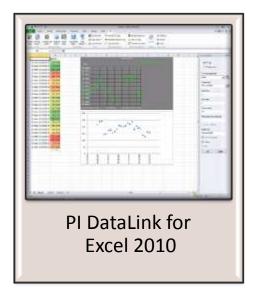
What's New in PI DataLink Server 2010 🦚

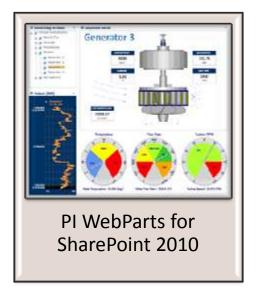


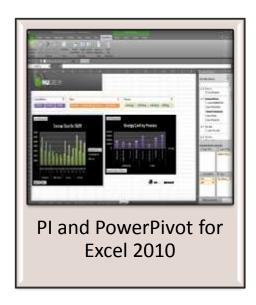
- Supports SharePoint 2010 (64-bit)
 (Microsoft Office SharePoint Server 2007 as well)
- Internationalization and Localization

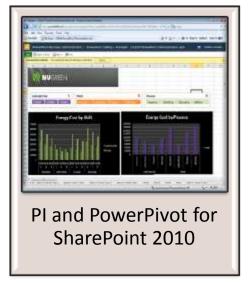
English, French, German, Spanish, Portuguese, Russian, Simplified Chinese, Japanese, Korean

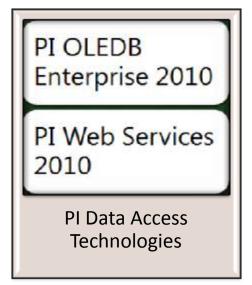


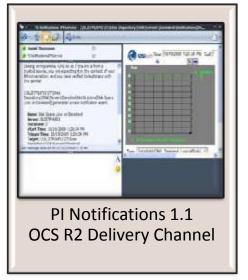






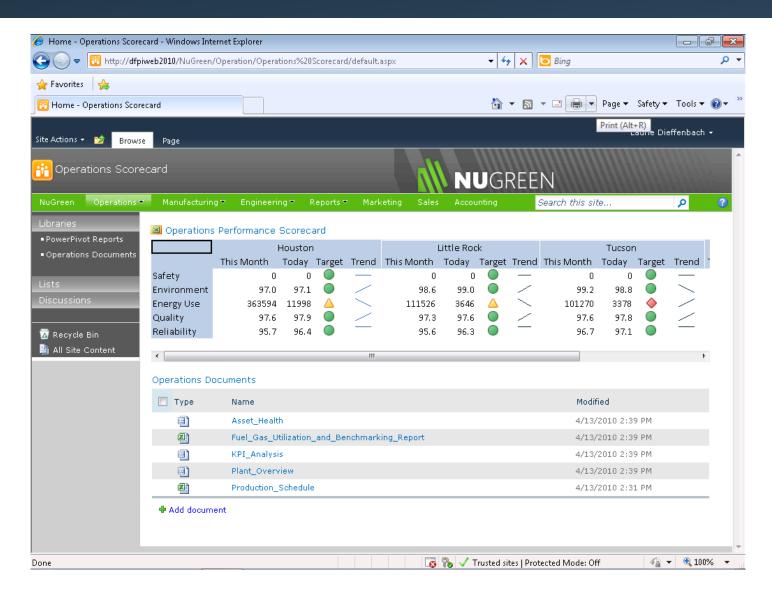


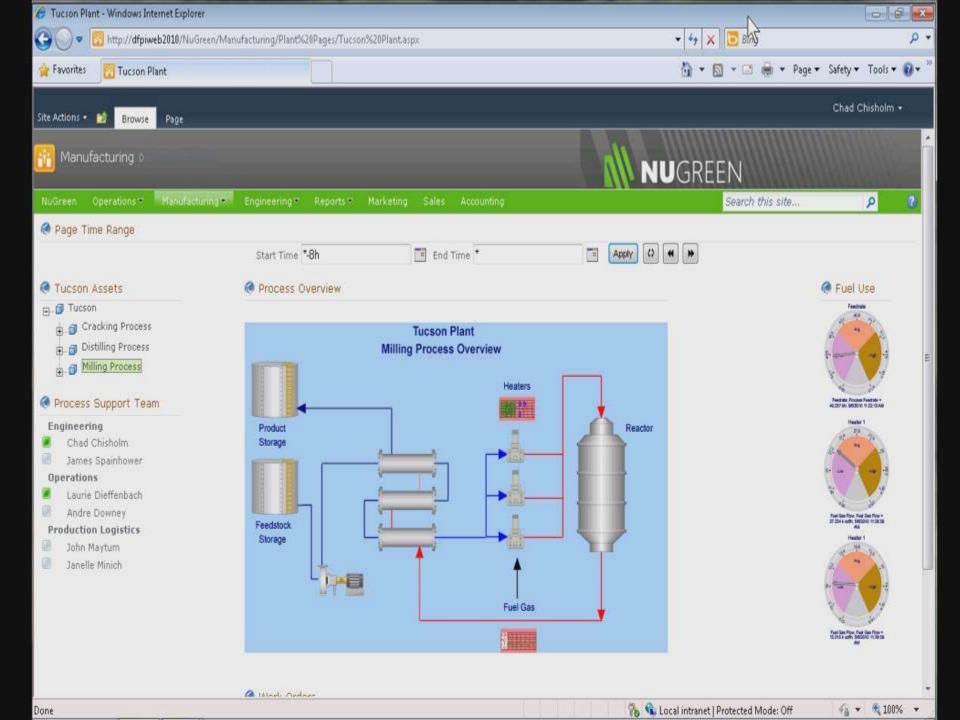


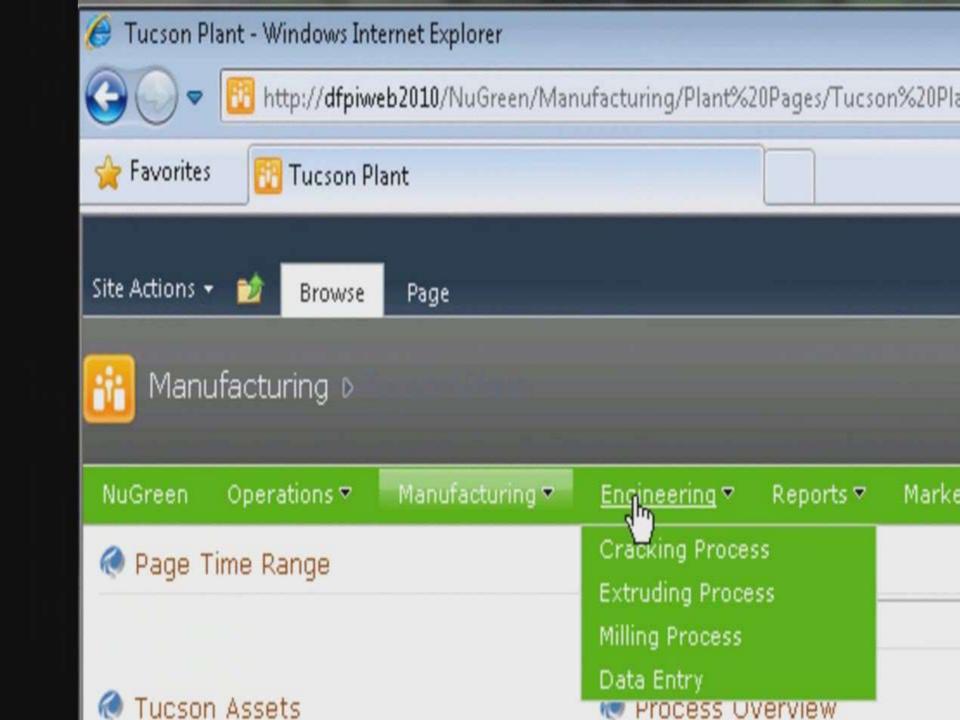


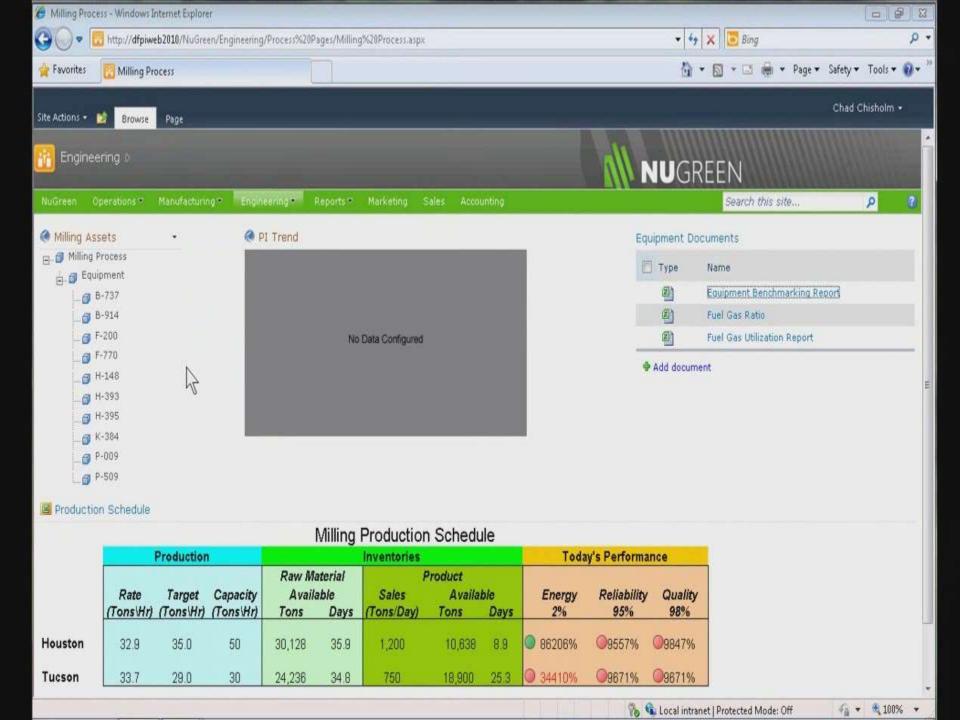
Scorecards in SharePoint











PI WebParts 2010





Legacy maintenance software

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



Excel Reports



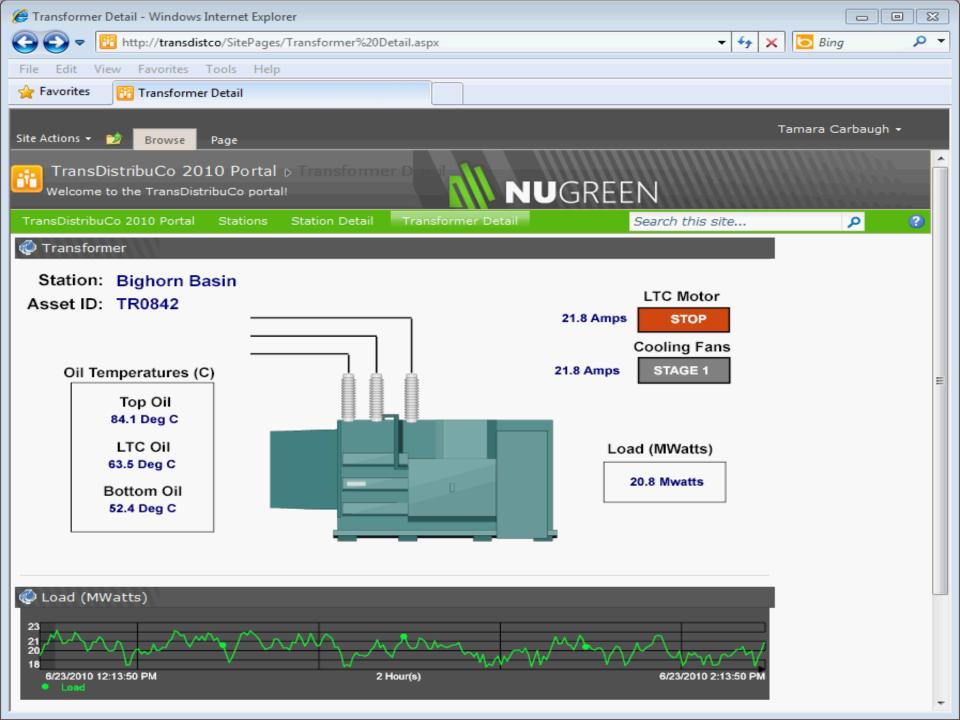
• Reports that engineers and managers rely on

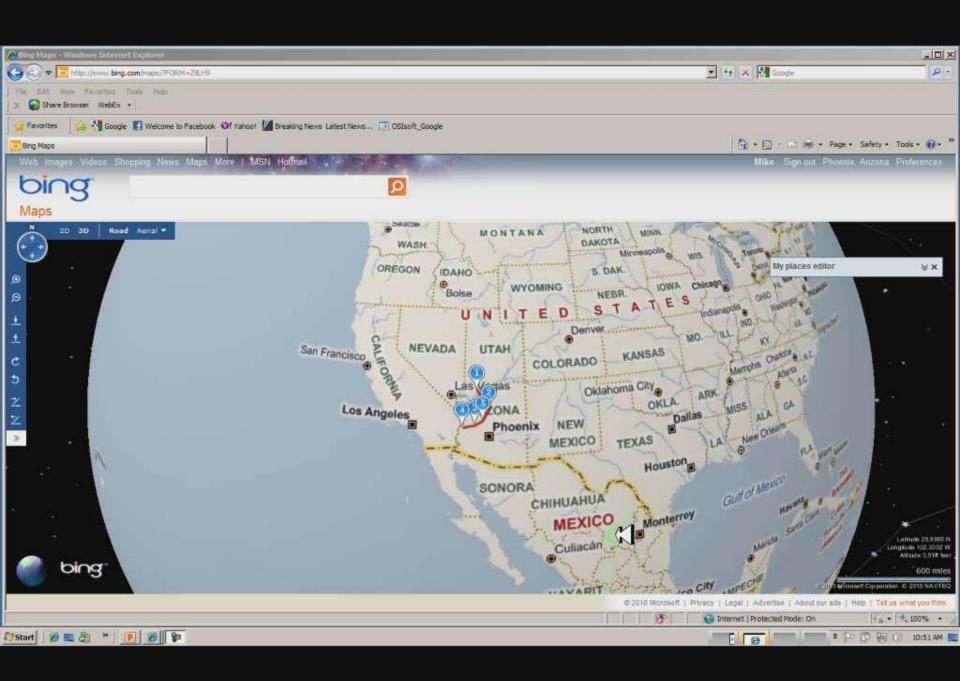


Manuals, Safety, Maps

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



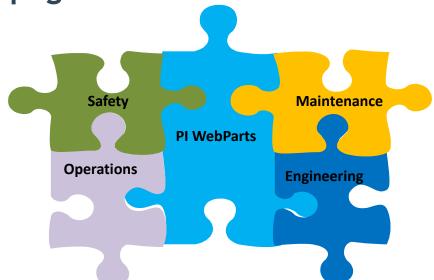




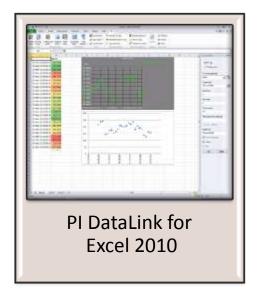
Value of PI WebParts 2010

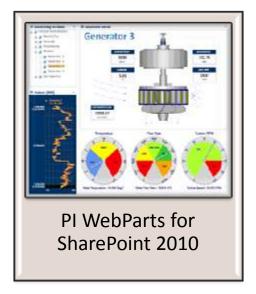


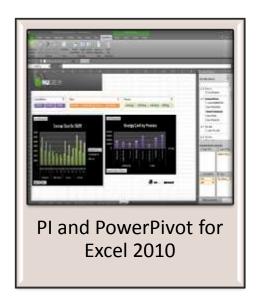
- Aligns with
 - PI for Office 2010 (2007 still supported)
 - PI Server 2010
- Easy configuration, no code programming
- Leverage existing applications
- Fewer pages to maintain

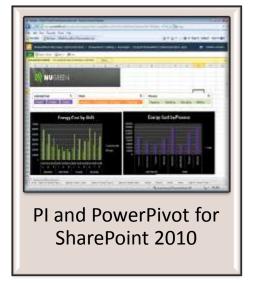


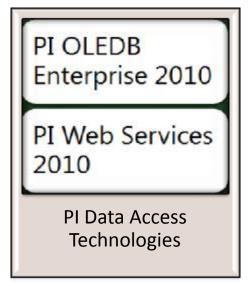


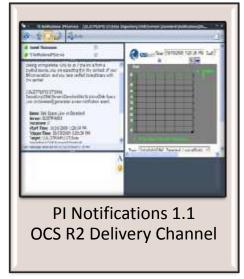






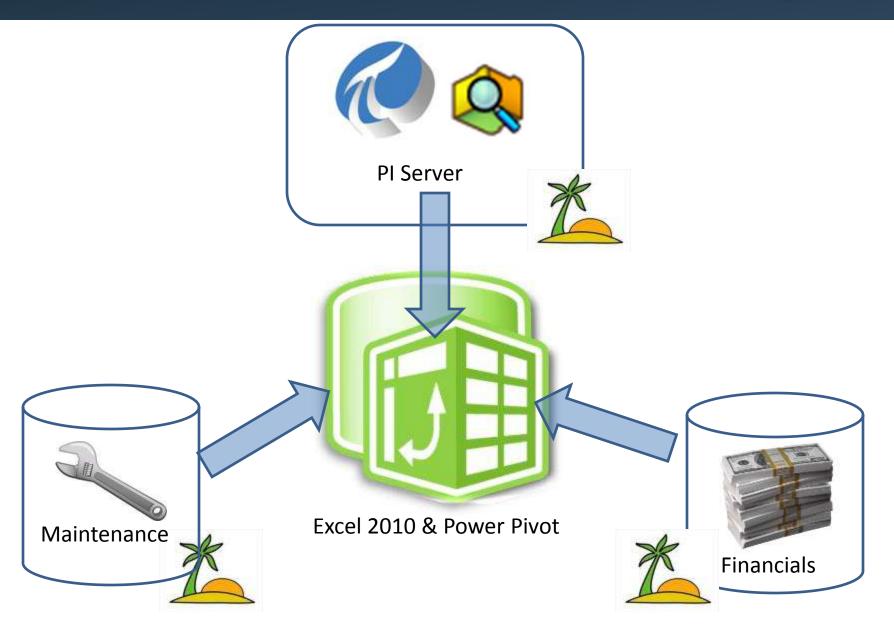






User-driven Reporting

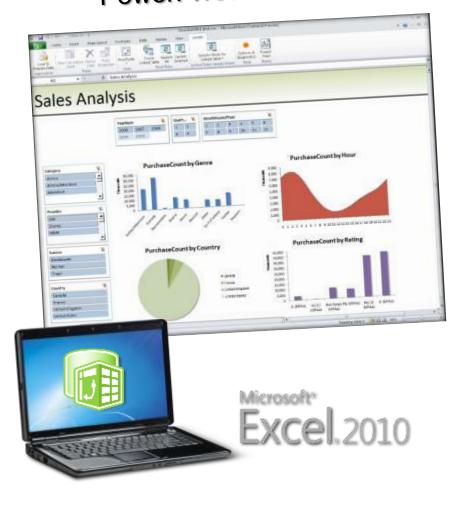




Self Service BI



PowerPivot for Excel



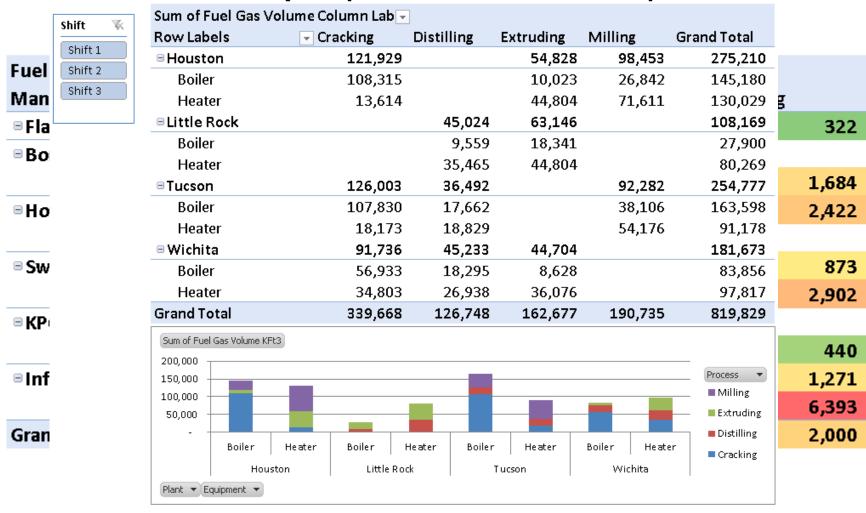
PowerPivot for SharePoint



BI for Manufacturing

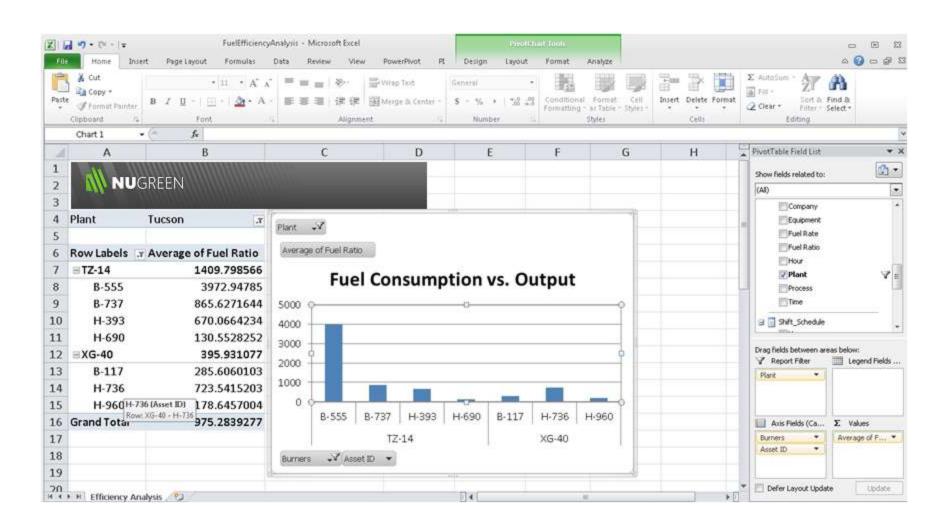


30 Day Corporate Fuel Gas Consumption



PI DataLink + Excel 2010 + PowerPivot (oslsoft.





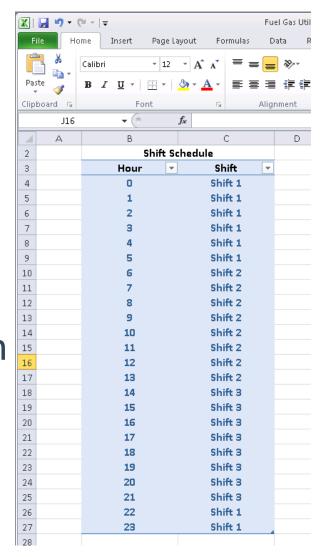
Slicing Data by Shifts

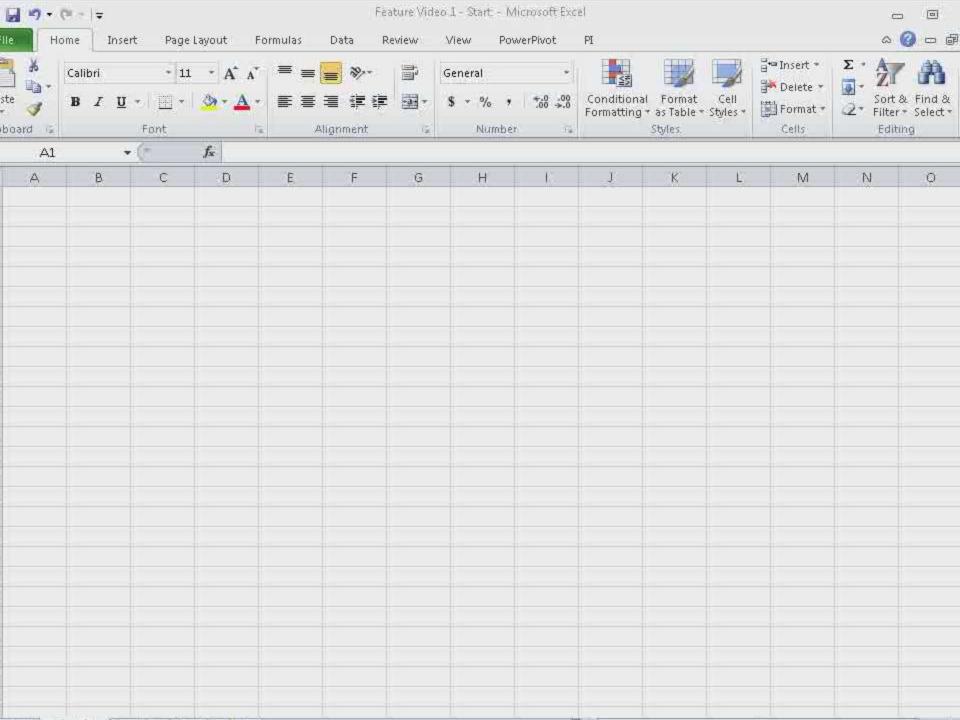


- Link in an Excel Table containing shift schedule
- Use DAX¹ to add an "Hour" column to the "Fuel Use" table;

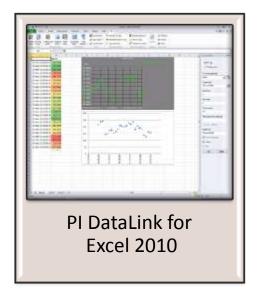
=HOUR([Time])

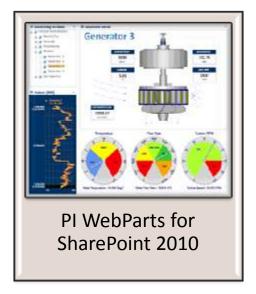
- Create a Relationship between the "Hour" columns in each table.
- 1. Data Analysis Expression Language

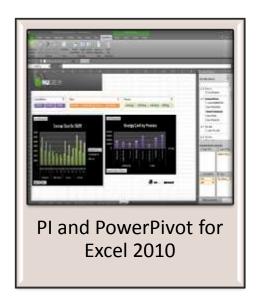


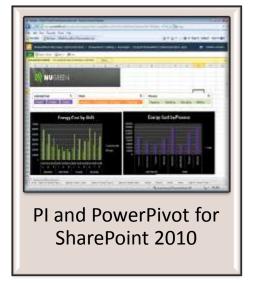


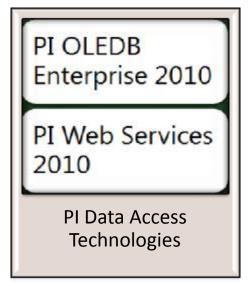


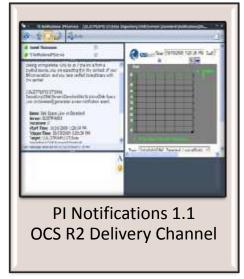






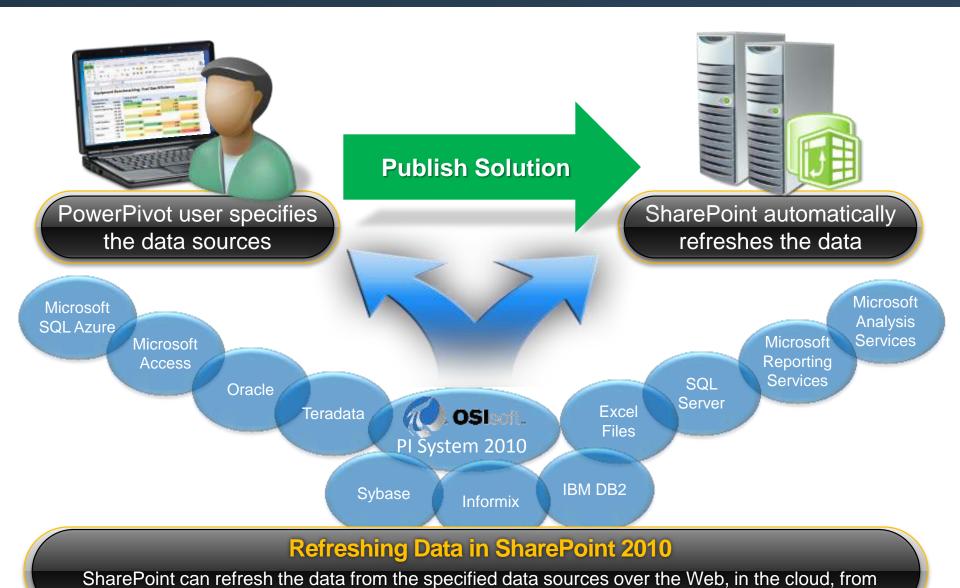




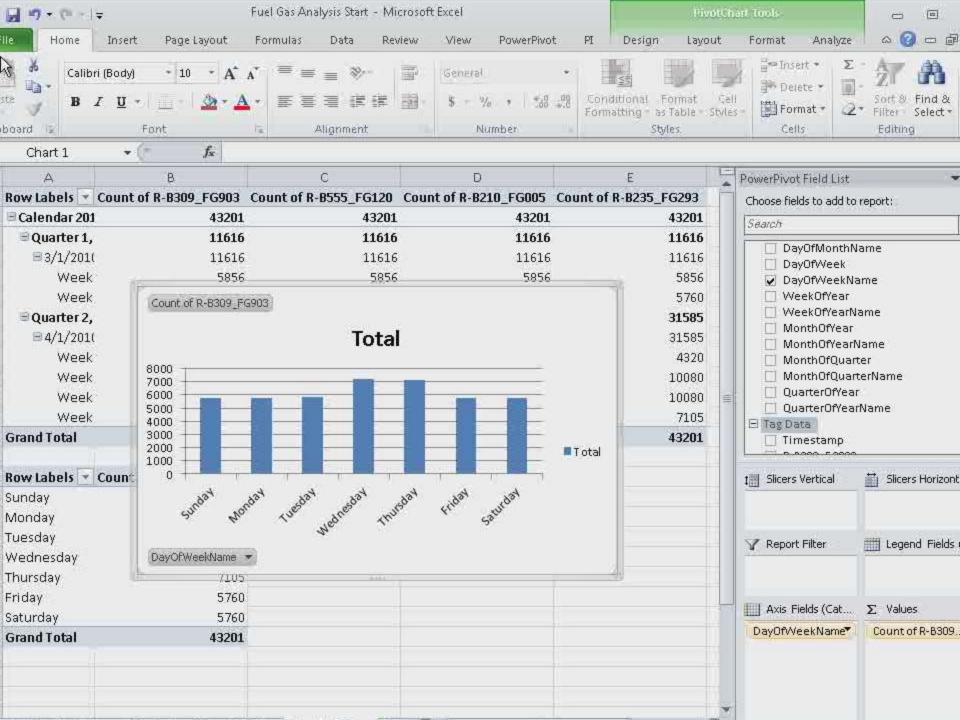


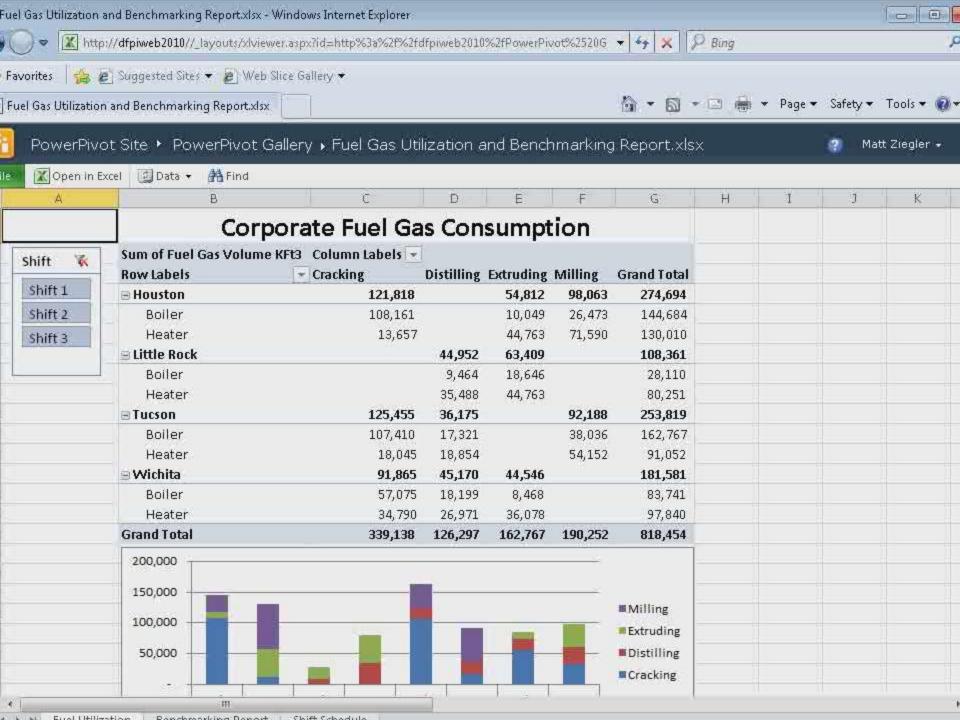
Keeping Insights Up to Date





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







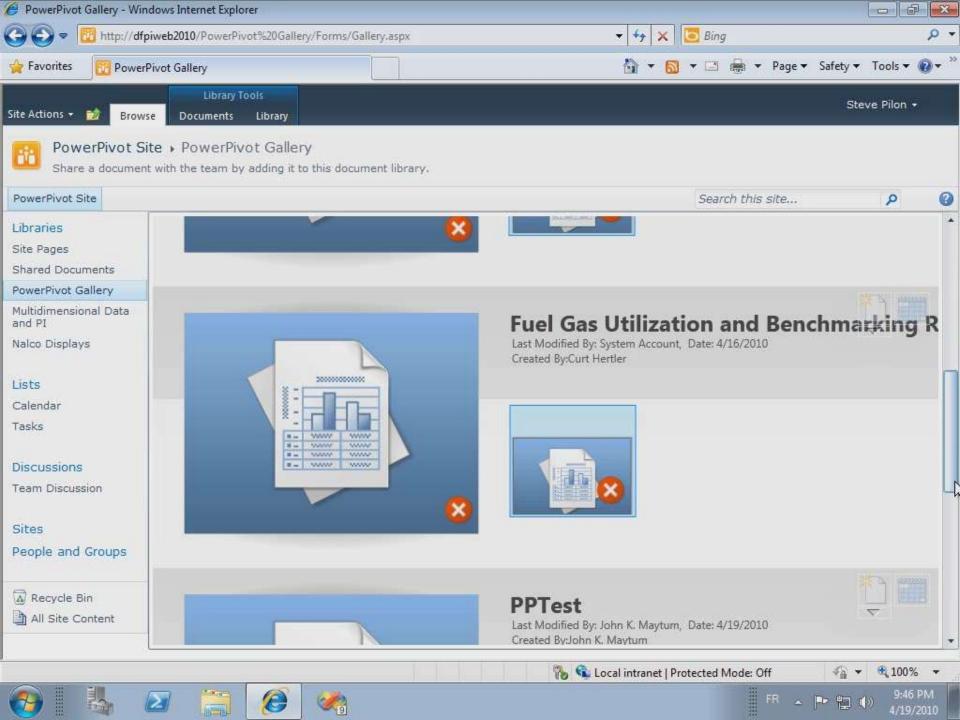




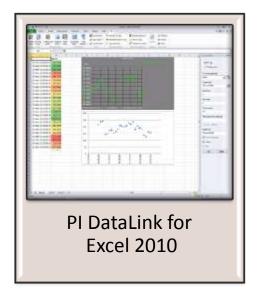


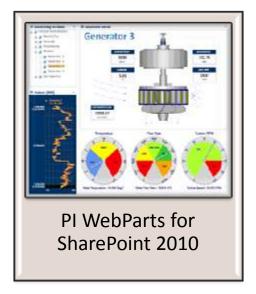


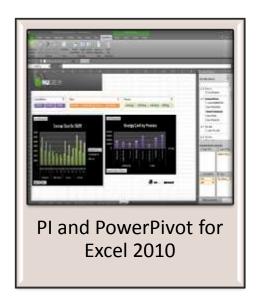


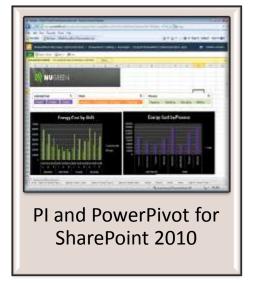


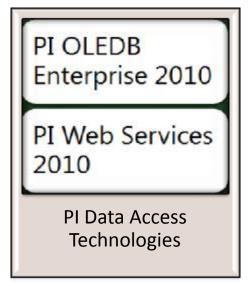


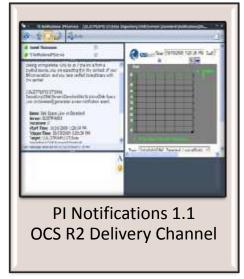


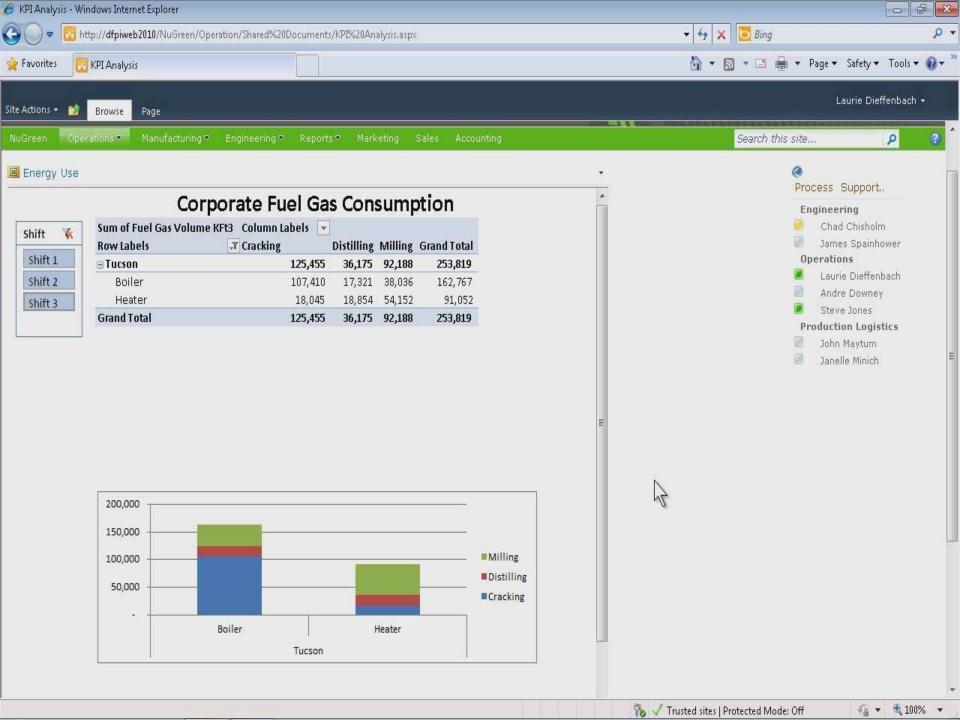








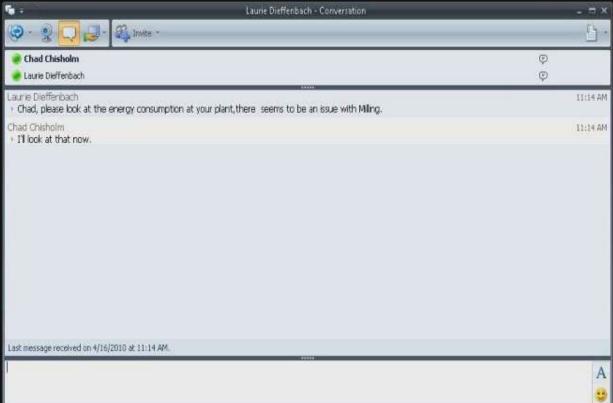








Camtasia Studio 7











Notification Limit Change

Use this form to change notification limit values.

Please enter the effective date for changes:

Target Date: 5/6/2010 11:33:08 AM

Please select the appropriate unit:

Heater:

Heater 395: FG Limit

Heater 393: FG Limit

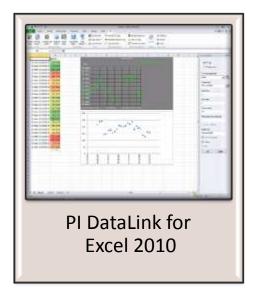
Heater 148: FG Limit

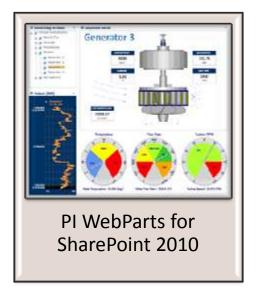
Please enter a new value Notification trigger limit:

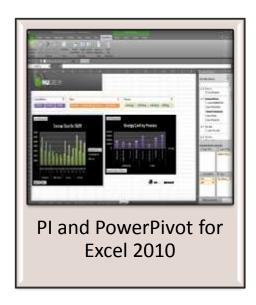
Trigger Limit:

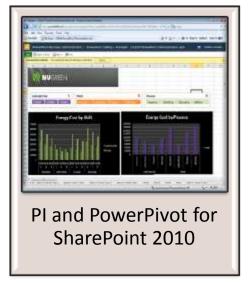
Change setpoint

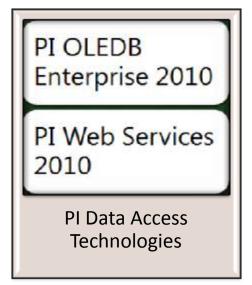


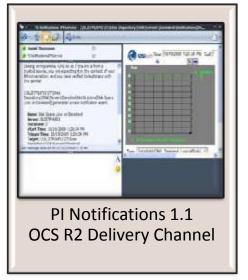








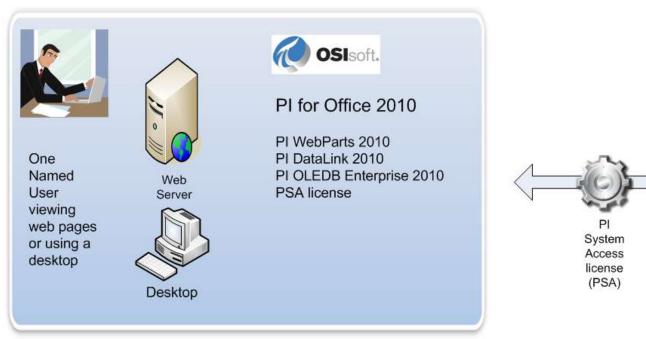


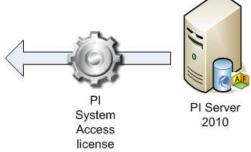


PI for Office 2010



Pairs with Microsoft Office and SharePoint







Thank you

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