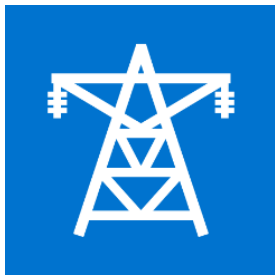


# Utilities Cost Management

## *an Asset Based PI Example Kit*





Electrical Utilities Management  
\$/kWh

**Record Keeping**



Oil / Gas Utilities Management  
\$/BTU

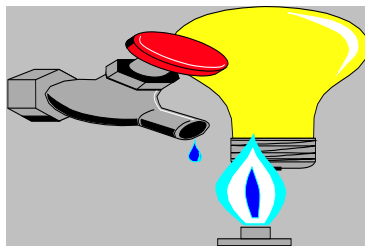
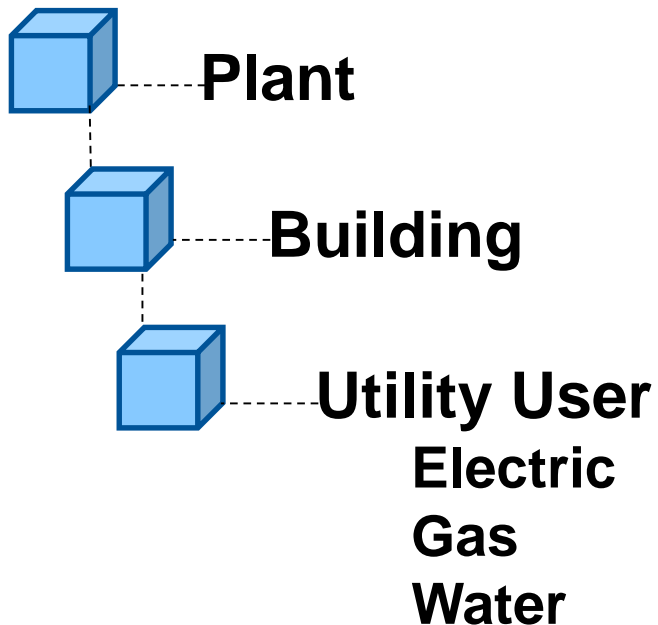
**Usage Tracking**








Water Utilities Management  
\$/Gal

**Cost Management**

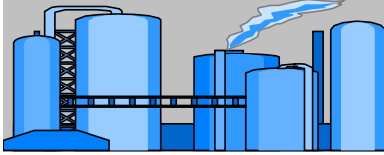
## Elements



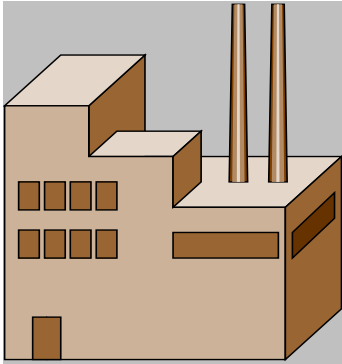
## Attributes

-  **Utility Usage**
-  **Utility Cost**
-  **Manufacturer**
-  **Serial Number**
-  **Asset Location**

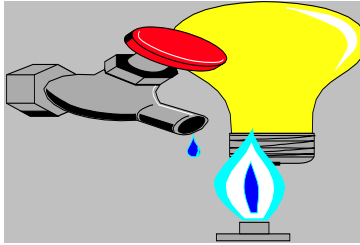
# Plant



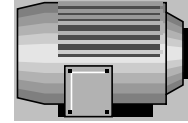
# Building 1/2



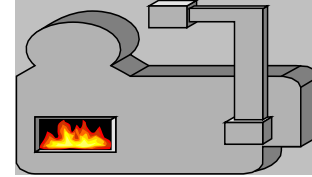
# Utilities



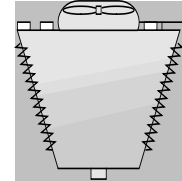
# Electric Motor



# Gas Boiler



# Cooling Tower



## Search

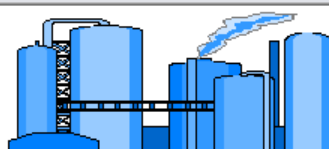
Search Mask

## Elements of Interest

Group

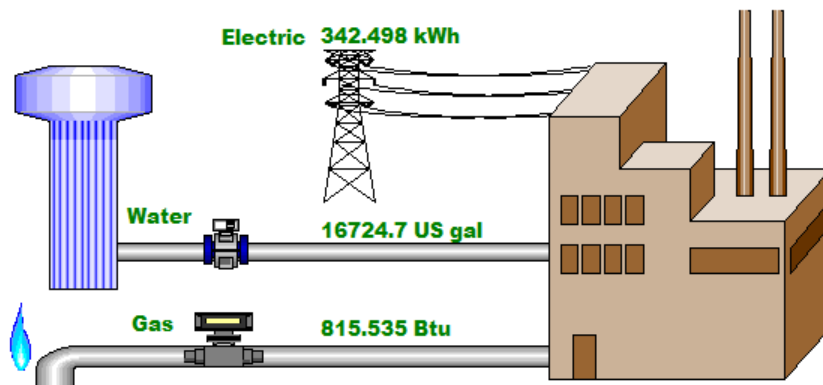
Filter

Name
Plant
Building1
Electric User1
Electric User2
Gas User1
Gas User2
Water User1
Water User2
Building2
Electric User3
Electric User4
Gas User3
Gas User4
Water User3
Water User4



## Plant\Building1

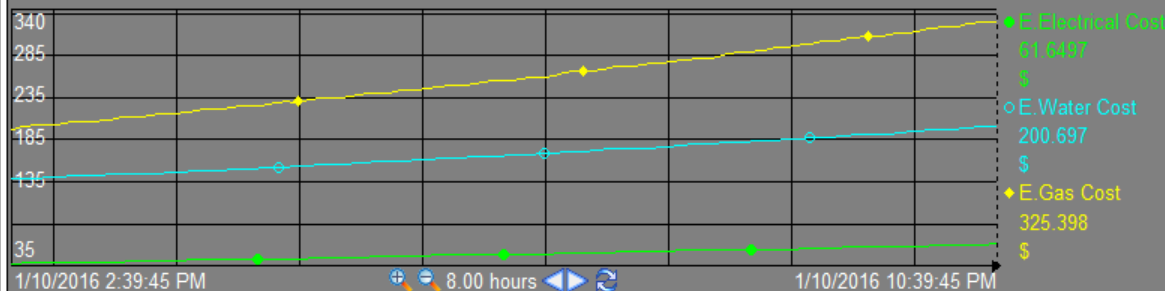
San Leandro



## Cost

<b>Elec</b>	61.65 \$
<b>Water</b>	200.70 \$
<b>Gas</b>	325.40 \$

Plot-0





## Event Frames

- Event Frame Searches
  - Event Frame Search 1
  - Event Frame Search 2
    - OSIDEMO\_Gas User1\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User1\_DownTime\_2016-01-06 1**
    - OSIDEMO\_Gas User1\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User1\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User2\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User2\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User2\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User2\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User3\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User3\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User3\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User4\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User4\_DownTime\_2016-01-06 1
    - OSIDEMO\_Gas User4\_DownTime\_2016-01-06 1

## OSIDEMO\_Gas User1\_DownTime\_2016-01-06 19:13:00

General Child Event Frames Referenced Elements Attributes

### Filter

Name		Value
Category: Availability		
	State	NoGasFlow
Category: Downtime		
	Duration	7 min
	Fault Code	Equipment failure



## Event Frames

### Event Frame Searches

#### Event Frame Search 1

- OSIDEMO\_Electric User1\_High Usage
- OSIDEMO\_Electric User2\_High Usage
- OSIDEMO\_Electric User2\_High Usage
- OSIDEMO\_Electric User2\_High Usage
- OSIDEMO\_Electric User2\_High Usage
- OSIDEMO\_Electric User2\_High Usage
- OSIDEMO\_Electric User2\_High Usage
- OSIDEMO\_Electric User2\_High Usage
- OSIDEMO\_Electric User3\_High Usage
- OSIDEMO\_Electric User3\_High Usage
- OSIDEMO\_Electric User4\_High Usage
- OSIDEMO\_Electric User4\_High Usage
- OSIDEMO\_Electric User4\_High Usage
- OSIDEMO\_Electric User4\_High Usage

## OSIDEMO\_Electric User1\_High Usage\_2016-01-06 19:22:00

### General Child Event Frames Referenced Elements Attributes

#### Filter

		Name	Value
Category: Usage			
		Amps	184.7188 A
		Duration	2 min



# PI Square

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## Asset Based PI Example Kits

<https://pisquare.osisoft.com/all-things-pi/asset-based-pi-example-kits>



감사합니다

谢谢

Danke

Merci

Gracias

**Thank You**

ありがとう

Спасибо

Obrigado