

# Desigo CC V 4.2

## Advanced Reports

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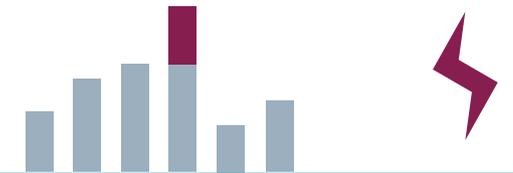
- Concept of Advanced Reports
- Customization of Advanced Reports
- Energy & Power Reports Templates
- Pharma Validation Report Templates
- Licensing of Advanced Reports
- Backup Information

# Concept of Advanced Reporting

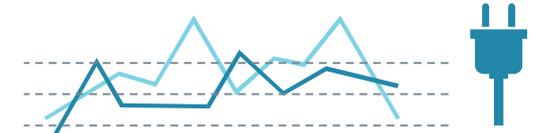
# Desigo CC has an advance reporting engine for specific market needs



Power Management



Energy Consumption



Pharma



Customized Reports e. g. maintenance



## Desigo CC

### Advanced Reports

Energy & Power Report Templates

Pharma / Validation Report Templates

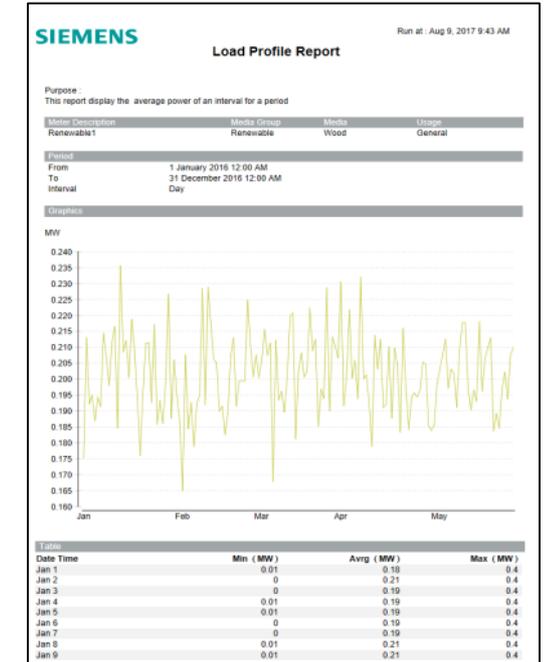
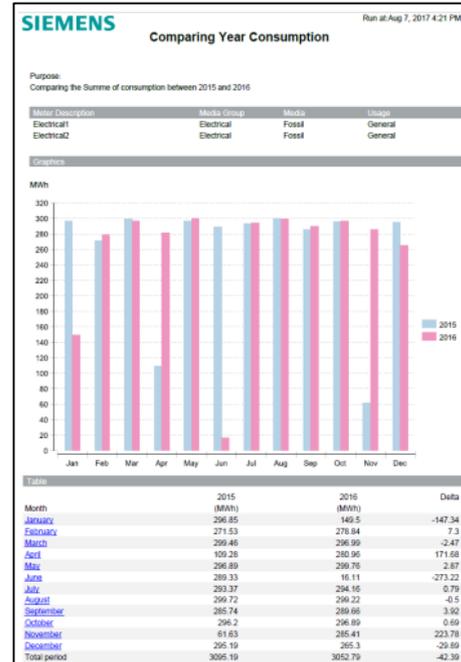
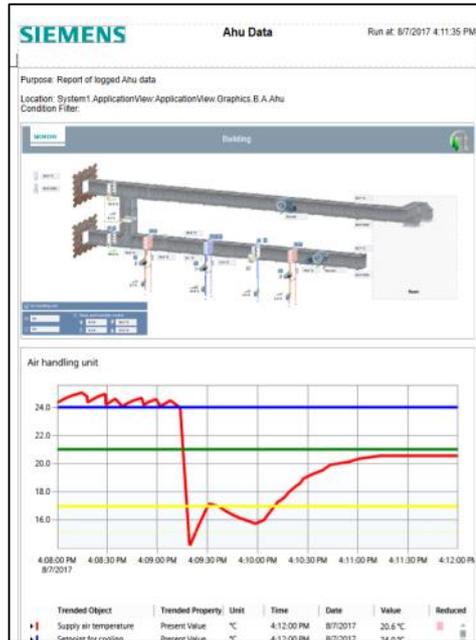
.. Additional Report Templates\*

\* Additional Report Templates can be created by trained librarians in the region or Application Integration Centres.

- Desigo CC includes an embedded reporting engine for advanced reports.
- The report engine accesses trend and event data through Desigo CC web services.
- The report engine accesses additional data via data file (Excel) in Desigo CC Library
- The report engine is used for all disciplines.

# Reports vs. Advanced Reports in Desigo CC

## What is the difference?



### REPORTS

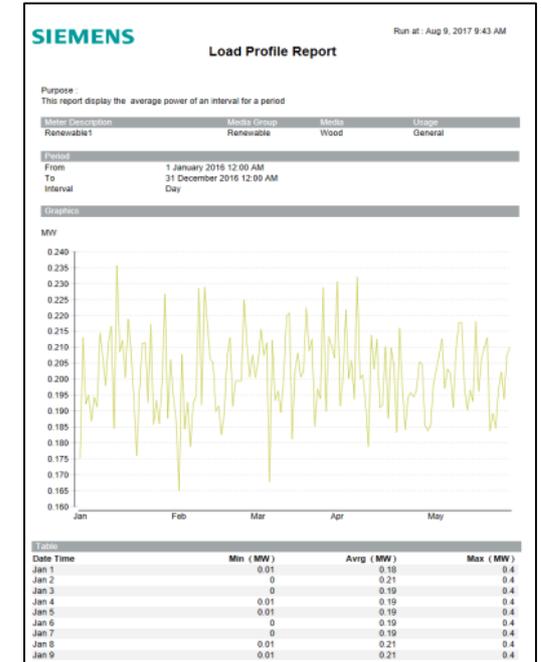
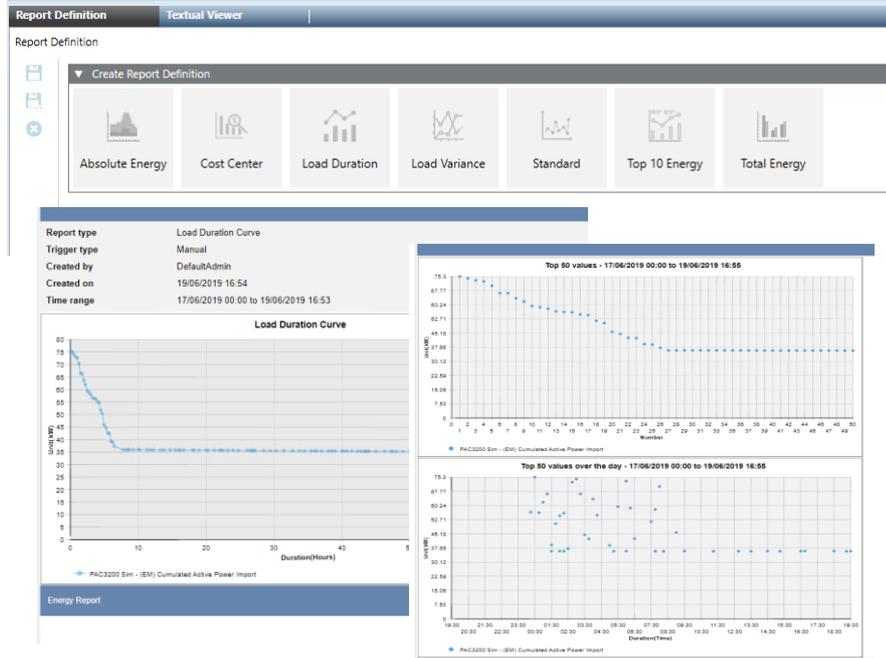
Used for reporting collected data or data series from Desigo CC data base (online data or offline data) as table, trend or graphic

### ADVANCED REPORTS

Used for reporting data or data series from Desigo CC data base **combined with additional:**

- Comparisons
- Benchmarking
- Evaluations
- Calculations
- Hyperlinks
- Enhancements with other data e.g. electricity rate, KPI

# Powermanager Reports vs. Advanced Reports in Desigo CC What to choose ?



## Powermanager REPORTS

*The go to solution for Energy and Power reports*

- Easy set up (included in Powermanager installation)
- Custom user defined calculations
- 7 Energy and power reports including "Load duration curve"

## ADVANCED REPORTS

*Additional option to cover the following needs:*

- Reporting based on custom hierarchies/views
- Customized reports
- Degree days correction.
- Input from any trendlog

# Workflow for Advanced Reports in Desigo CC

The screenshot illustrates the workflow for generating advanced reports in Desigo CC. It shows the System Browser, Application Viewer, and Textual Viewer. The System Browser displays a tree view of reports under 'Energy and Power Reports', with '2 Floor' selected. The Application Viewer shows a list of reports for '2 Floor', including 'Comparing Consumption Report', 'Consumption Report', 'Load Profile Report', and 'Max Power Report'. A 'Parameter' dialog box is open, showing configuration options for the selected report, such as 'Media Group', 'Media', 'Time range for Report Content', and 'From Date'/'To Date'.

1. Select Customer Defined View

2. Select Aggregator, Meter or Data Point to Report

3. Select Report in Application Viewer

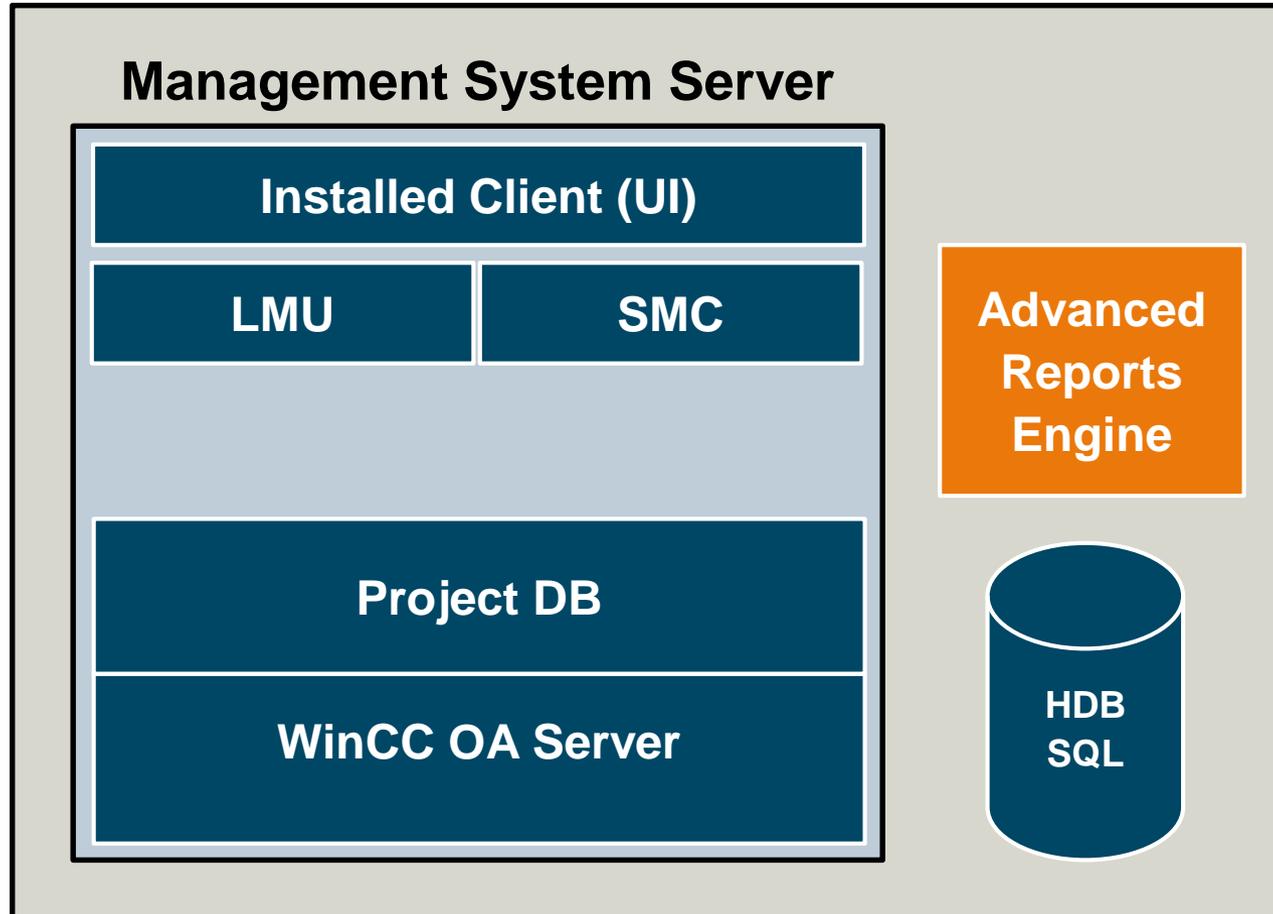
4. Configure Report Parameter

## Additional features

- Exports of reports in Word, Excel, PDF, PPT
- Automatic report creation and store in specific directory
- Automatic preparation of data overnight to speed up report creation
- Automatic sending of reports with e-mail

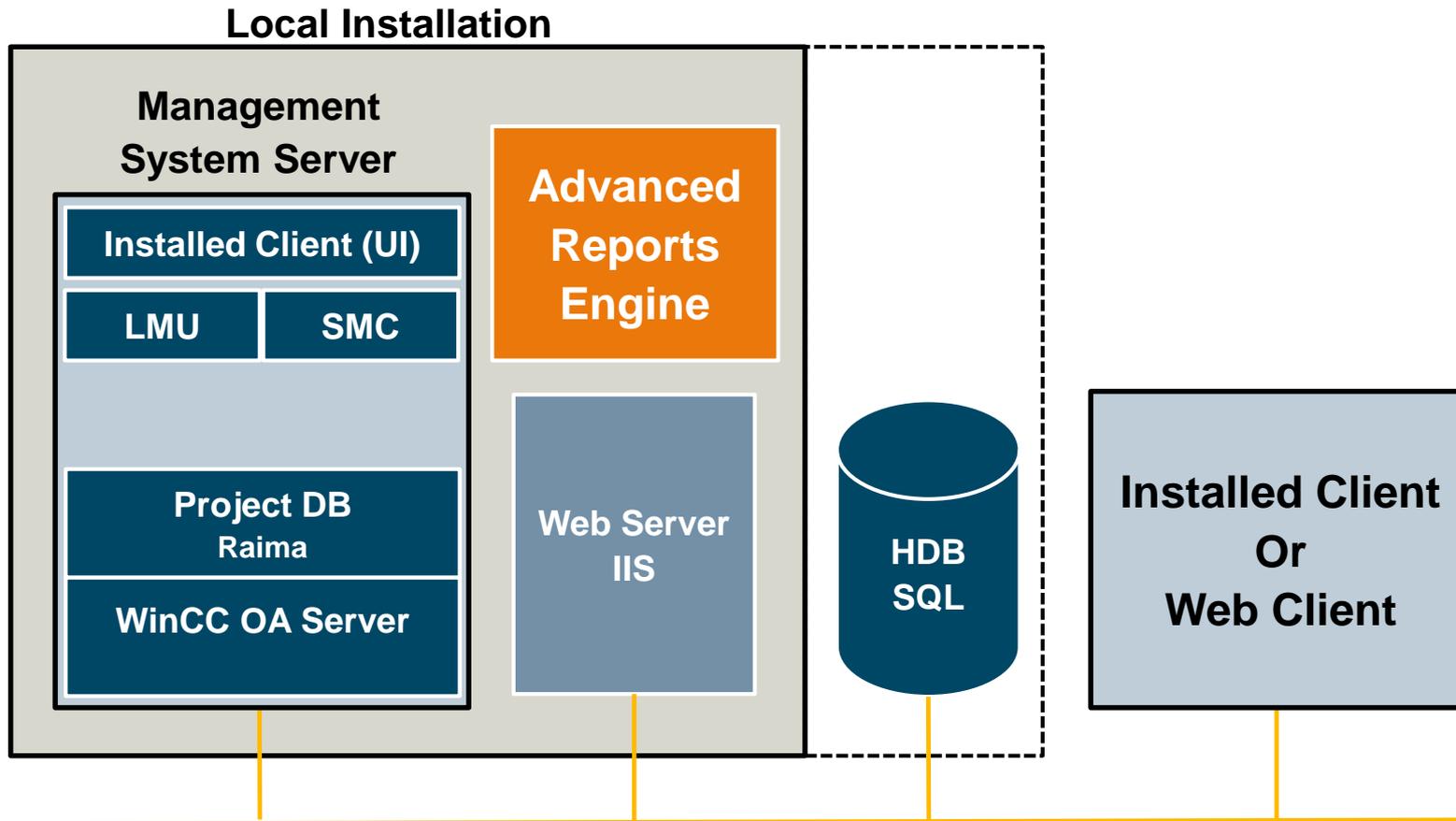
# Distribution Concept for Local Client

## Local Installation



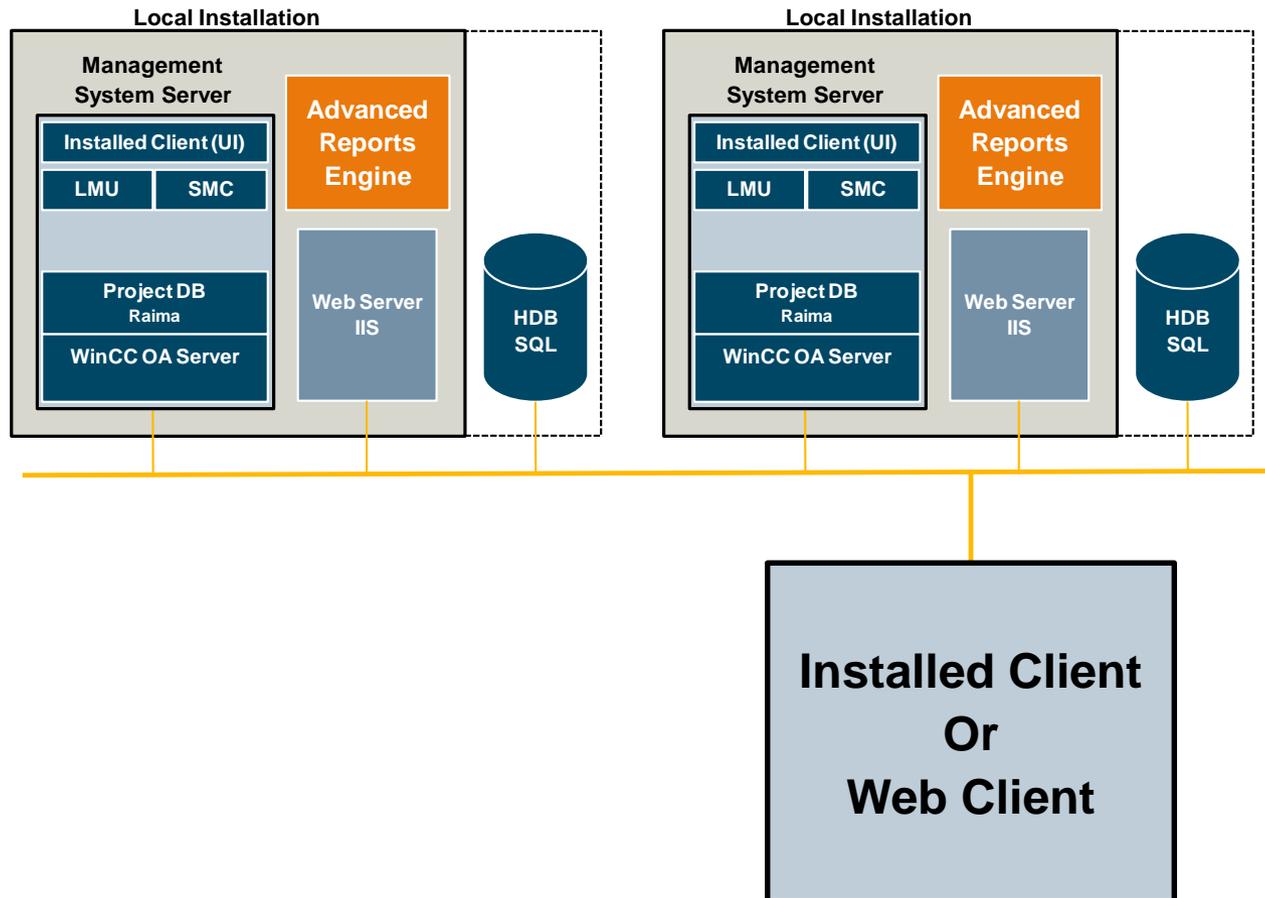
- Advanced Report Engine must be installed on all Desigo CC Server which shall use Advanced Reports.

# Distribution Concept for Remote Clients



- Advanced Report Engine must be installed on all Desigo CC Server which shall use Advanced Reports.
- Access to Advanced Report for any Clients via Web Server IIS.

# Distribution Concept for Multi Server / Client

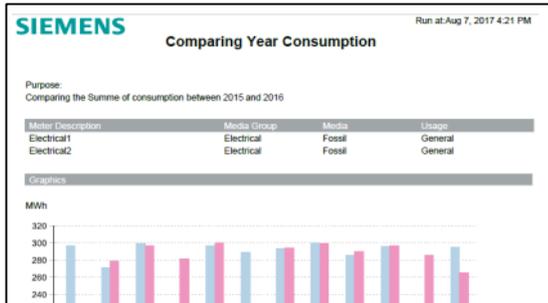


- Advanced Report Engine must be installed on all Desigo CC Server which shall use Advanced Reports.
- Access to Advanced Report for any Clients via Web Server IIS.
- All Desigo CC Servers can create reports from the connected data base only.

# Customization of Advanced Reports

# Customizing Reports

## What can be customized by field engineers?



### General Layout Settings for All Reports:

- Position of page number in footer [Left, Center, Right, No]
- Show total page number
- Show data and time in footer or header
- Name of customer
- Name of site
- Logo to display [Product Logo, Site Logo, Vendor Logo, None]

Parameter

Parameters marked with \* are required.

Position of page number on footer: left, Center, right or not show: \*

Show Total Page number:

Show date and time in footer (disable means date and time in header): \*

Name of customer (shown below logo or in right if time is in footer):

Name of site (shown below logo or in right if time is in footer):

Logo to display in report: \*

Vendor Logo

OK Cancel



### Energy & Power Reports Settings:

- Graph type [Line Sum, Line Compare, Bar]
- Value display format
- Color selection per media group
- Color selection per series in chart and trend

Parameter

Parameters marked with \* are required.

Default Graph type: \*

Default Graph type (Max power): \*

Value format display: \*

Fossil: \*

Electrical: \*

Renewable: \*

Water: \*

Heating: \*

OK Cancel

### Pharma Reports Settings:

- Value display format
- Activation energy for MKT (KJ/Mole)
- Default high limit value for chart and trend
- Default low limit value for chart and trend
- Color of the limit line in chart and trend
- Color of the alarm summary chart and trend
- Number of hours to look before the selected time period
- Number of trend series to switch description to series number
- Color selection per series in chart and trend

Parameter

Parameters marked with \* are required.

All Value format display: \*

Activation Energy for MKT (kJ/Mole): \*

Chart Trend, Default High Limit Value: \*

Chart Trend, Default Low Limit Value: \*

Chart Trend, Color of the limits lines: \*

Summary Alarm, Color for the Alarm Graphic: \*

Alarm Summary, Number of hours to look before the selected time: \*

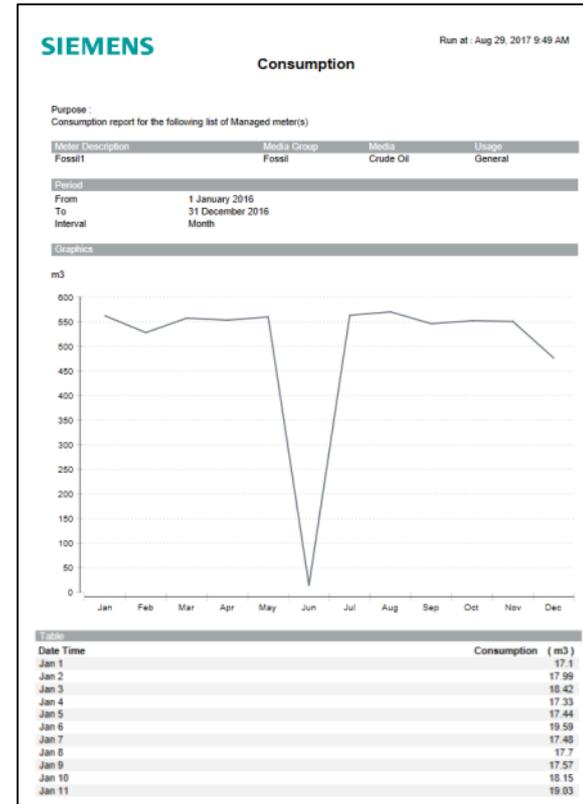
OK Cancel

# Customizing Reports

## What options are available for graphical representation?



Bar Chart Diagram



Line Chart Diagram

# Advanced Reports Templates Library

# Energy & Power Report Templates

1. Comparing Consumption Report
2. Consumption Report
3. Load Profile Report
4. Max Power Report
5. Comparison Group Consumption Report
6. Consumption Node Report
7. Budget Report
8. Cost Report
9. Emission Report
10. Energy Performance Report
11. Power Usage Effectiveness Report
12. Pie Chart Consumption Report
13. Heating / Cooling Degree Days Corrected Report
14. Degree Days Regression Line Report
15. Energy Signature Report
16. Consumption and Max Power Report

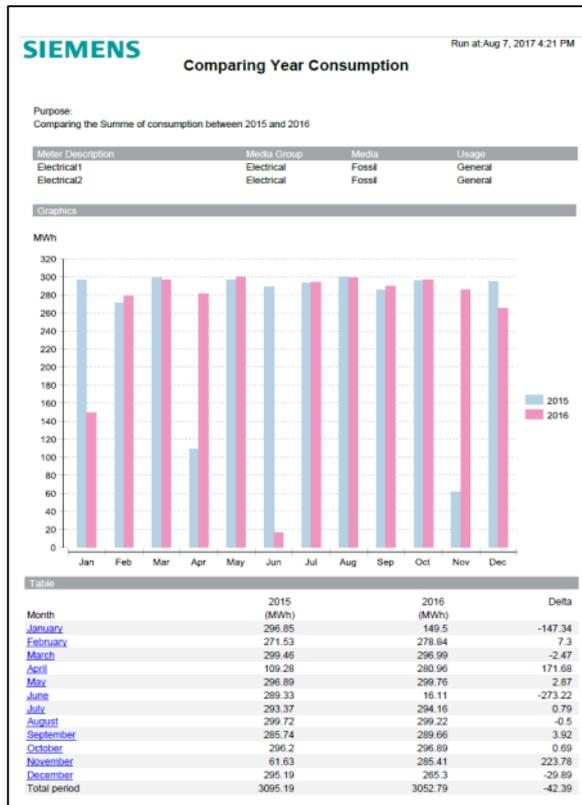


# Energy & Power Reports:

## 1. Comparing Consumption Report

Report compares the total consumption of a meter or a node for two configurable years against each other.

**Release Version:**  
V3.0



### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media group
- Media
- Two years to compare
- Alternative title of report
- Alternative purpose text

### Report Output:

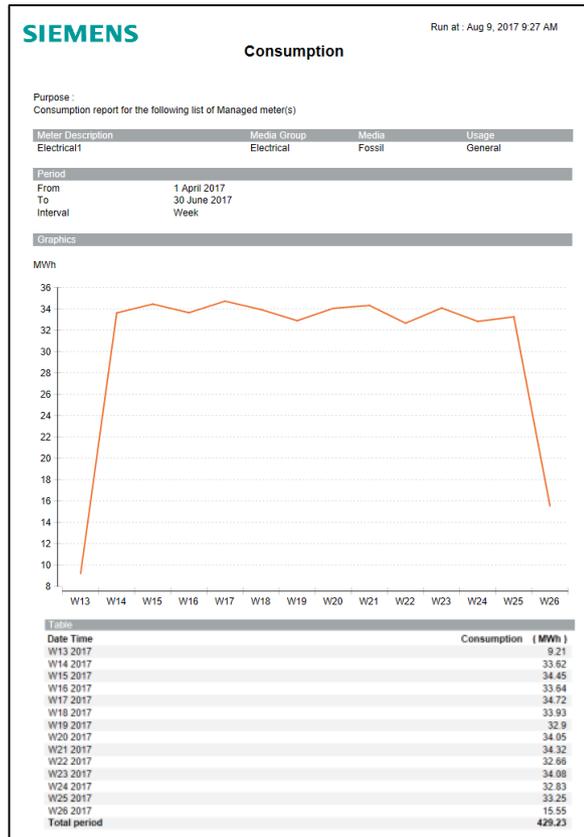
- Summary about meter included in the report
- Graphic
- Table with yearly value and delta
- Hyperlinks for monthly drill down and back up again
- Monthly drill down values per day and delta

# Energy & Power Reports:

## 2. Consumption Report

Reports the total consumption of a meter or a node for a configurable time range.

**Release Version:**  
V3.0



### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media Group
- Media
- Time range [Last, Rolling, Current or user defined]
- Interval [Day, Week, Month, Year]
- Graph Type [Default, Line(sum), Line(comp), Bar]
- Alternative title of report
- Alternative purpose text
- Limits

### Report Output:

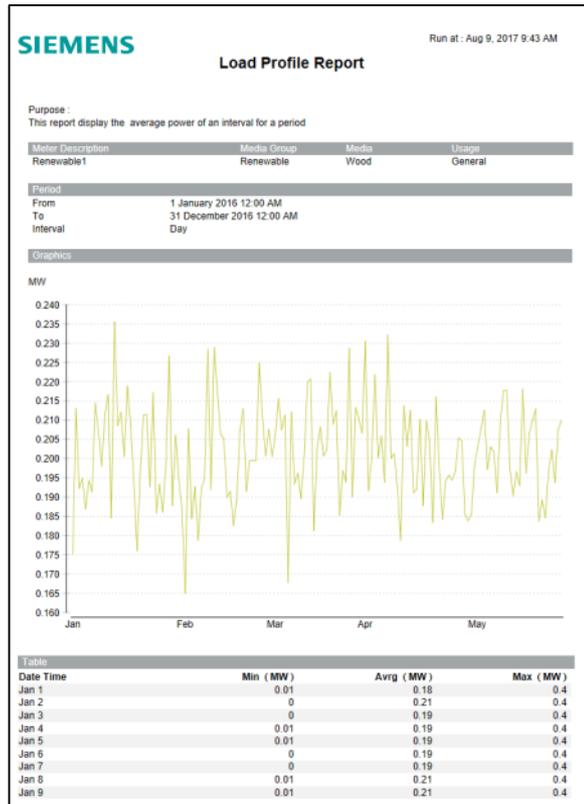
- Summary about meter included in the report
- Graphic
- Table with total consumption value per interval

# Energy & Power Reports:

## 3.Load Profile Report

Report provides the minimum, average and maximum power of a meter or a node for a configurable time frame.

**Release Version:**  
V3.0



### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media Group
- Media
- Time range [Last, Rolling, Current or user defined]
- Interval [Auto, 15Min, 1h, 3h, Quarterday, Halfday, Day, Week, Month]
- Alternative title of report
- Alternative purpose text
- Limits

### Report Output:

- Summary about meter included in the report
- Graphic
- Table with minimum, average and maximum per interval

# Energy & Power Reports:

## 4.Max Power Report

Report provides the maximum power of a meter or a node for a configurable time frame.

**Release Version:**  
V3.0



### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media Group
- Media
- Time range [Last, Rolling, Current or user defined]
- Interval [Day, Week, Fortnight, Month, Quarter, Half Year, Year, 5 Year]
- Graph Type [Default, Line, Bar]
- Alternative title of report
- Alternative purpose text

### Report Output:

- Summary about meter included in the report
- Graphic
- Table with maximum per interval

# Energy & Power Reports:

## 5. Comparing Group Consumption Report

Report compares the total consumption of two meter groups or nodes for a configurable time range.

**Release Version:**  
V3.0



### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media Group
- Media
- Selection of group1 and group 2
- Display color for each group
- Time range [Last, Rolling, Current or user defined]
- Interval [Day, Week, Month, Year]
- Alternative title of report
- Alternative purpose text

### Report Output:

- Summary about meter included in the report
- Graphic
- Table with maximum per interval

# Energy & Power Reports: 6. Consumption Node Report

Reports the total consumption of all medias of a node for a configurable time range.

**Release Version:**  
V3.0

**SIEMENS** Consumption overview Run at : Aug 29, 2017 9:43 AM

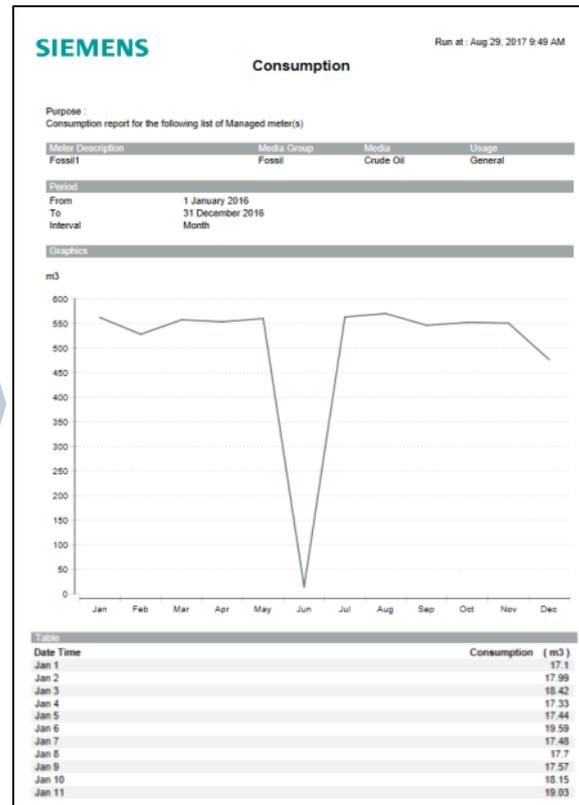
Purpose: Overview of the different consumption for the following period

Period:  
From: 1 January 2016  
To: 31 December 2016  
Interval: Month

Report: System1\_Energy\_Reports\_Energy\_Reports\_Building

Meter	Meter Description	Media Group	Media	Consumption	Valid from	Valid to
#floor	Renewable1	Renewable	Wood	1596.87 MWh	Jul 12, 2015 12:00 AM	
	Renewable2	Renewable	Wood	1585.46 MWh	Jul 12, 2015 12:00 AM	
	Fossil1	Fossil	Crude Oil	4032.22 m3	Jul 12, 2015 12:00 AM	
	Heating1	Heating	Heat	4029.05 m3	Jul 12, 2015 12:00 AM	
#floor	Water1	Water	Fresh	4067.72 m3	Jul 12, 2015 12:00 AM	
	Electrical1	Electrical	Fossil	1441.83 MWh	Jul 12, 2015 12:00 AM	
	Electrical2	Electrical	Fossil	1616.67 MWh	Jul 12, 2015 12:00 AM	
	Fossil2	Fossil	Crude Oil	4165.48 m3	Jul 12, 2015 12:00 AM	
	Heating2	Heating	Heat	4129 m3	Jul 12, 2015 12:00 AM	
	Water2	Water	Fresh	4169.05 m3	Jul 12, 2015 12:00 AM	

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### Report can be used for:

- Aggregator / Node in user defined view

### Configurable Data of Report:

- Time range
- Interval
- Alternative title of report
- Alternative purpose text

### Report Output:

- Summary about meter included in the report
- Graphic
- Table with value
- Hyperlinks for media drill down
- Drill down values per day and delta

# Energy & Power Reports:

## 7. Budget Report

Reports the consumption of meters or node compared against defined budgets.

**Release Version:**  
V3.0 / EP01



### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media Group
- Media
- Time range [Last, Rolling, Current or user defined]
- Interval [Month, Year]
- Graph Type [Default, Line, Bar]
- Budget information
- Alternative title of report
- Alternative purpose text

### Report Output:

- Summary about meter included in the report
- Graphic
- Table including delta in value and percentage

# Energy & Power Reports: 8. Cost Report

Reports the energy cost based on tariff data including meter fee and tax option.

**Release Version:**  
V3.0 / EP01

**SIEMENS** Run at: Jan 23, 2018 4:29 PM

**Energy Cost Report**

Purpose:  
Cost consumption report for the following list of Managed meter(s)

Energy Consumption	Media Group	Media	Media
NewManagedMeter1	Renewable	Wood	General

Period

From: 1 January 2017 12:00 AM  
To: 31 December 2017 12:00 AM  
Interval: Month

Table:

Meter Description	Date Time	Cons.High MWh	CostHigh Tariff €	Cons.Low MWh	CostLow Tariff €	Total Cons. €	Meter Fee €	VAT €	Totals €
NewManagedMeter1	January	101.7	508.51	49.91	149.74	151.62	300	67.08	1025.33
	February	87.26	436.29	44.17	132.5	131.43	300	69.82	929.81
	March	97.61	488.05	50.44	151.31	148.05	300	69.76	1005.12
	April	95.56	477.82	47.22	141.67	142.79	300	64.36	983.85
	May	102.2	510.98	47.95	143.89	150.16	300	69.84	1021.7
	June	95.62	479.98	47.37	142.11	142.98	300	64.41	984.59
	July	96.26	486.3	46.03	147.08	148.29	300	69.04	1009.42
	August	98.44	492.2	50.96	152.58	149.3	300	69.13	1010.91
	September	94.2	470.98	46.88	148.04	141.18	300	63.83	975.75
	October	97.31	486.55	46.35	148.04	145.06	300	65.42	1000.91
	November	94.62	473.11	47.81	143.64	142.44	300	64.16	980.71
	December	91.78	451.93	9.89	29.68	29.68	300	29.92	442.55
<b>Total Sum</b>		<b>1040.56</b>	<b>5402.8</b>	<b>840.99</b>	<b>1622.97</b>	<b>1621.95</b>	<b>3600</b>	<b>743.8</b>	<b>11269.97</b>

### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media Group
- Media
- Time range [Last, Rolling, Current or user defined]
- Interval [Day, Week, Month, Quarter, Half Year, Year]
- Tariff, tax and meter fee data
- Alternative title of report
- Alternative purpose text

### Report Output:

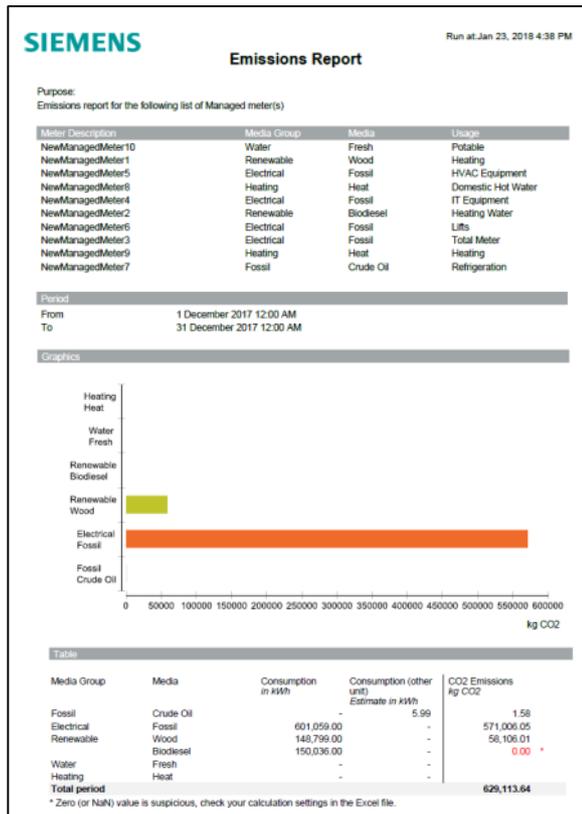
- Summary about meter included in the report
- Table with consumption and cost for all tariffs
- Table with total cost for tax, meter fee and consumption

# Energy & Power Reports:

## 9.Emission Report

Reports the CO<sub>2</sub> emissions per Media on a selected node in vertical bar graph and table.

**Release Version:**  
V3.0 / EP01



### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Time range [Last, Rolling, Current or user defined]
- Alternative title of report
- CO<sub>2</sub> format [Gram, Kilogram, Tons]
- Emission factor per media
- Alternative title of report
- Alternative purpose text

### Report Output:

- Summary about meter included in the report
- Graphical indication for CO<sub>2</sub> emission per media
- Table with CO<sub>2</sub> emission data per media

# Energy & Power Reports:

## 10. Energy Performance Report

Reports the performance of energy consumption related to covered space in m<sup>2</sup>.

**Release Version:**  
V3.0 / EP01

**SIEMENS** Performance Report Run at: Jan 23, 2018 4:40 PM

Purpose:  
Performance report for the following periods, for each Managed meters found we do a consumption / surface ratio.

Period:  
From: 1 December 2017  
To: 31 December 2017

System:  
System1 User-John User-John Campo-Zug-Zählerweg-1

	Meter Description	Media Group	Media	Consumption	Surface covered m <sup>2</sup>	Performance kWh / m <sup>2</sup>
Floor-1	NewManagedMeter1	Renewable	Wood	26.68MWh	80	0.333
	NewManagedMeter2	Renewable	Wood	26.33MWh	80	0.329
Floor-2	NewManagedMeter3	Electrical	Fossil	26.33MWh	500	0.054
	NewManagedMeter5	Fossil	Crude Oil	67.47m <sup>3</sup>	40	2.437
Floor-3	NewManagedMeter4	Electrical	Fossil	26.95MWh	100	0.27
	NewManagedMeter6	Fossil	Crude Oil	94.65m <sup>3</sup>	80	1.189
Floor-4	NewManagedMeter7	Heating	Heat	104.05m <sup>3</sup>	3000	0.035
	NewManagedMeter8	Heating	Heat	99.5m <sup>3</sup>	80	1.244
Floor-5	NewManagedMeter9	Water	Fresh	100.25m <sup>3</sup>	3000	0.033
	NewManagedMeter9	Water	Fresh	100.65m <sup>3</sup>	500	0.202

### Report can be used for:

- Managed Meter
- Aggregator / Node in user defined view

### Configurable Data of Report:

- Time range [Last, Rolling, Current or user defined]
- Alternative title of report
- Performance data (Surface covered m<sup>2</sup>)
- Alternative title of report
- Alternative purpose text

### Report Output:

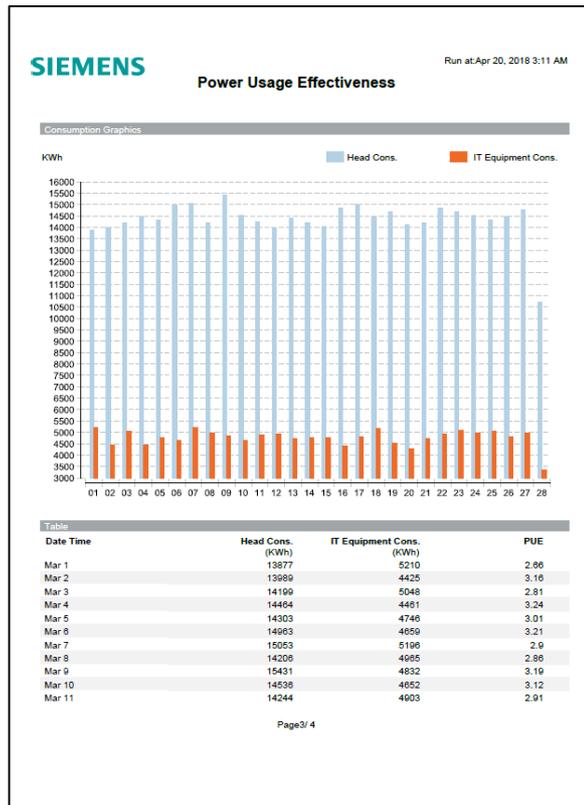
- Summary about meter included in the report
- Table with consumption and performance information per meter / node

# Power and Energy Report:

## 11. Power Usage Effectiveness Report

Reports the ratio between total energy consumption and IT usage group consumption

**Release Version:**  
V3.0 / EP02



### Report can be used for:

- Managed Meter
- Aggregator in user defined view

### Configurable Data of Report:

- Selection of Main meter (or sum up of all)
- Display color for each group
- Time range [Last, Rolling, Current or user defined]
- Interval [Day, Week, Month, Year]
- Alternative title of report
- Alternative purpose text

### Report Output:

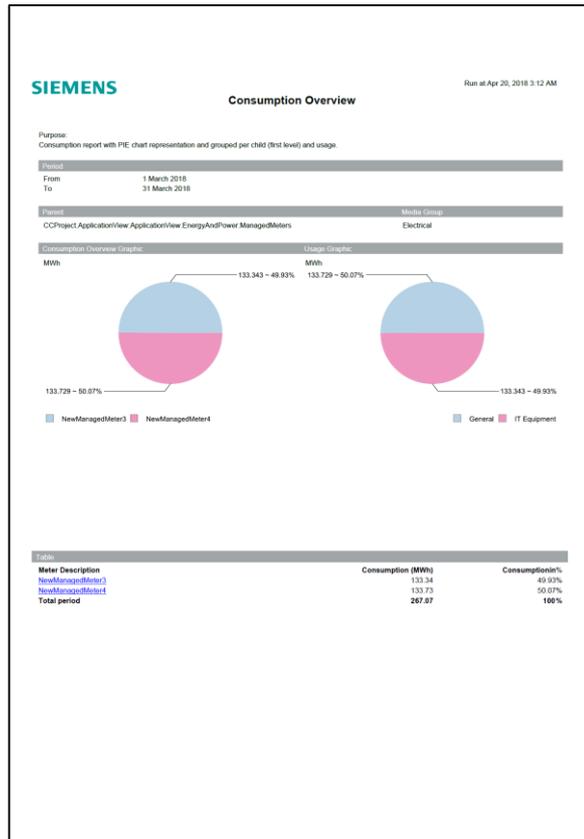
- Summary about node included in the report
- Graphic
- Table with maximum per interval

# Energy & Power Reports:

## 12. Pie Chart Consumption Report

Reports the consumption contribution of a meters or usage types for a Node and a configurable time range.

**Release Version:**  
V3.0 / EP02



### Report can be used for:

- Aggregator / Node in user defined view

### Configurable Data of Report:

- Media Group
- Media
- Time range [Last, Rolling, Current or user defined]
- Interval [Day, Week, Month, Year]
- Alternative title of report
- Alternative purpose text

### Report Output:

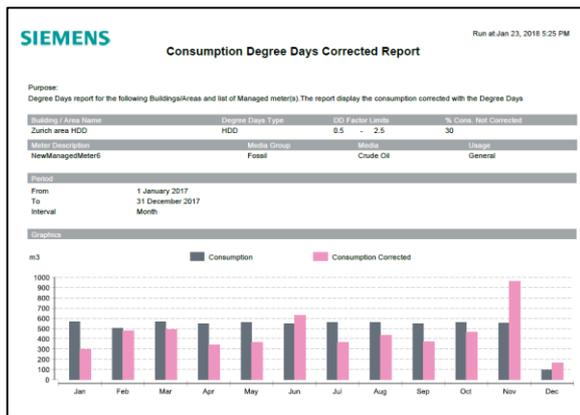
- Summary about meter included in the report
- Graphic
- Table with total consumption value per interval
- Table with total consumption value per usage type

# Energy & Power Reports:

## 13. Heating / Cooling Degree Days Corrected Report

Reports the consumption and degree day corrected consumption of a meter or node.

**Release Version:**  
V3.0 / EP02



### Report can be used for:

- Managed Meter
- Aggregator in user defined view

### Configurable Data of Report:

- Interval [last Day, last Week, last Month, last Year]
- Media Group
- Media
- Graph Type [Default, Line, Bar]
- Alternative title of report
- Alternative purpose text

**SIEMENS Consumption Degree Days Corrected Report**  
Run at Jan 23, 2018 5:25 PM

Date Time	HDD Reference	HDD	HDD Factor	Consumption (m3)	Consumption Not Corrected (m3)	Consumption Corrected (m3)	Consumption Total (m3)
January 2017	422.3	568.5	0.74	564.43	169.33	293.49	462.82
February 2017	459.9	338.9	1.36	504.92	151.48	479.64	631.11
March 2017	288.5	234.1	1.23	567.82	170.34	499.83	602.18
April 2017	179.6	203.7	0.88	547.88	164.3	338.01	502.31
May 2017	80.3	86.2	0.93	559.46	167.84	364.82	532.66
June 2017	22.2	13.6	1.63	549.7	164.91	628.12	793.63
July 2017	7.8	8.3	0.94	559.56	167.87	368.1	535.96
August 2017	14.8	13.4	1.1	561.9	168.57	434.43	603
September 2017	44.9	87.9	0.51	546.16	163.66	369.26	533.11
October 2017	184.1	155.5	1.18	561.3	168.39	465.18	633.57
November 2017	246.6	35.4	6.97 (2.5)	550.67	165.2	963.67	1128.88
December 2017	371.7	0	Infinity (2.5)	94.68	28.4	165.64	184.04

### Report Output:

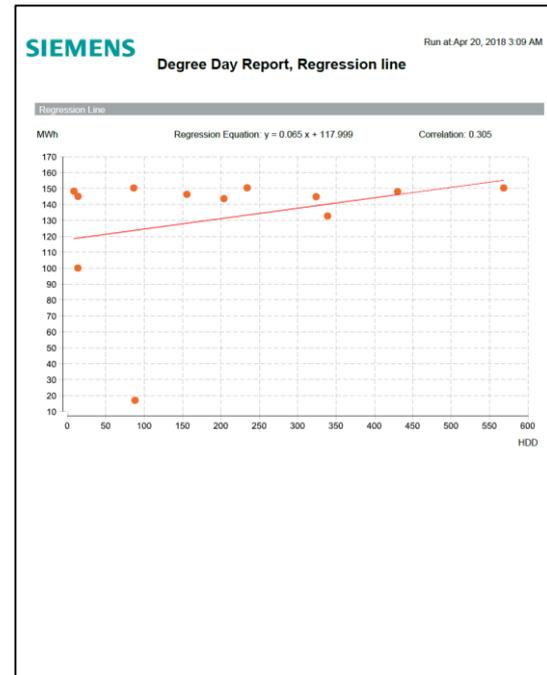
- Heating Degree Days / Cooling Degree Days overview
- Consumption
- HDD / CDD Corrected Consumption
- Regression line

# Energy & Power Reports:

## 14. Degree Days Regression Line Report

Reports the consumption against the Degree Day corrected temperature.

**Release Version:**  
V3.0 / EP02



### Report can be used for:

- Managed Meter
- Aggregator in user defined view

### Configurable Data of Report:

- Interval [last Day, last Week, last Month, last Year]
- Media Group
- Media
- Alternative title of report
- Alternative purpose text

### Report Output:

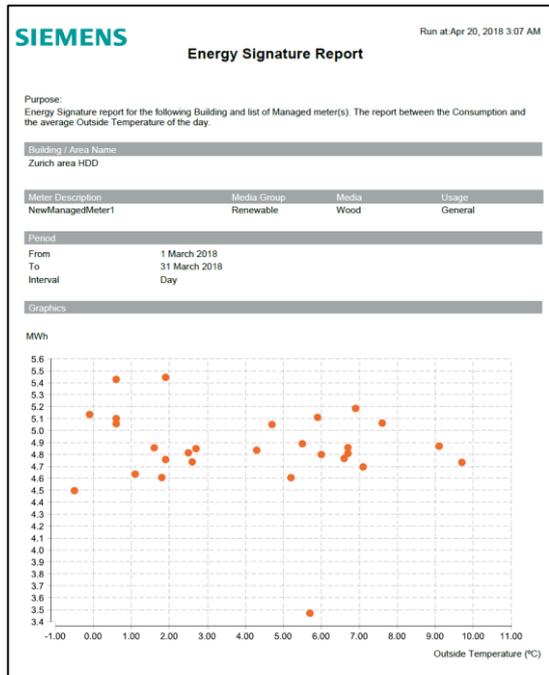
- Heating Degree Days / Cooling Degree Days overview
- Consumption
- HDD / CDD Corrected Consumption
- Regression line

# Energy & Power Reports:

## 14. Energy Signature Report

Reports the consumption against the outside temperature.

**Release Version:**  
V3.0 / EP02



The screenshot shows the 'Energy Signature Report' interface with a table of data. The table has three columns: Date Time, Consumption (MWh), and Outside Temperature (°C). The data points are as follows:

Date Time	Consumption (MWh)	Outside Temperature (°C)
Mar 1	4.7	7.1
Mar 2	4.87	9.1
Mar 3	4.81	6.7
Mar 4	5.05	4.7
Mar 5	5.45	1.9
Mar 6	5.06	0.6
Mar 7	4.5	-0.5
Mar 8	5.13	-0.1
Mar 9	5.43	0.6
Mar 10	4.96	1.6
Mar 11	4.61	1.8
Mar 12	4.76	1.9
Mar 13	4.74	2.6
Mar 14	4.81	2.5
Mar 15	4.81	5.2
Mar 16	5.11	5.9
Mar 17	4.8	6
Mar 18	4.85	2.7
Mar 19	5.1	0.6
Mar 20	4.93	1.1
Mar 21	4.94	4.3
Mar 22	4.86	6.7
Mar 23	5.06	7.6
Mar 24	4.77	6.6
Mar 25	4.88	5.5
Mar 26	4.73	9.7
Mar 27	5.19	6.9
Mar 28	3.47	5.7

### Report can be used for:

- Managed Meter
- Aggregator in user defined view

### Configurable Data of Report:

- Interval [last Day, last Week, last Month, last Year]
- Media Group
- Media
- Alternative title of report
- Alternative purpose text

### Report Output:

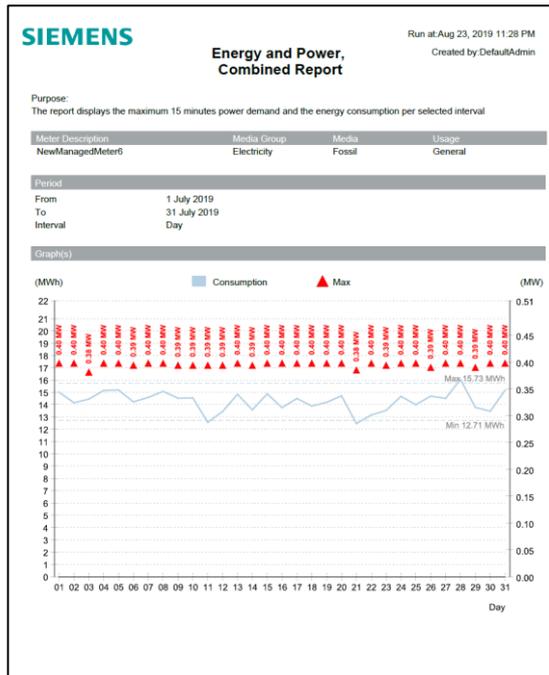
- Consumption and outside temperature per interval

# Energy & Power Reports:

## 16. Consumption and Max Power Report

Reports the consumption against the outside temperature.

**Release Version:**  
V3.0 / EP02



**SIEMENS Energy and Power, Combined Report**  
Run at: Aug 23, 2019 11:28 PM  
Created by: DefaultAdmin

Summary Table			
Minimum Cons. (MWh)	Average Cons. (MWh)	Maximum Cons. (MWh)	Total Cons. (MWh)
12.46 (Jul 21)	14.28	16.05 (Jul 28)	442.79

Table		
Date Time	Max (MW)	Consumption (MWh)
Jul 1	0.40	15.02
Jul 2	0.40	14.15
Jul 3	0.38	14.45
Jul 4	0.40	15.15
Jul 5	0.40	15.19
Jul 6	0.39	14.22
Jul 7	0.40	14.59
Jul 8	0.40	15.08
Jul 9	0.39	14.53
Jul 10	0.39	14.55
Jul 11	0.39	12.56
Jul 12	0.39	13.44
Jul 13	0.40	14.84
Jul 14	0.39	13.58
Jul 15	0.40	14.88
Jul 16	0.40	13.76
Jul 17	0.40	14.50
Jul 18	0.40	13.89
Jul 19	0.40	14.19
Jul 20	0.40	14.72
Jul 21	0.38	12.46
Jul 22	0.40	13.16
Jul 23	0.39	13.53
Jul 24	0.40	14.67
Jul 25	0.40	14.00
Jul 26	0.39	14.69
Jul 27	0.40	14.50
Jul 28	0.40	16.05
Jul 29	0.39	13.78
Jul 30	0.40	13.46
Jul 31	0.40	15.18

**Report can be used for:**

- Managed Meter
- Aggregator in user defined view

**Configurable Data of Report:**

- Interval [last Day, last Week, last Month, last Year]
- Media Group
- Media
- Alternative title of report
- Alternative purpose text

**Report Output:**

- Consumption per interval and Max 15minutes Power
- Summary table with Min Max and average values

# Pharma Validation Report Templates

1. Alarm Summary Report
2. Statistic Summary MKT Report
3. Trend Chart Report  
(and Trend Chart Multi Axis Report)
4. Trend Table Report
5. Audit Trail Report



# Pharma Validation Reports:

## 1. Alarm Summary Report

Report displays alarm details and/or summary for the selected time range and data points.

**Release Version:**  
V3.0 / EP01

**SIEMENS** Run at: Aug 9, 2017 10:59 AM

**Alarms Summary**

Details Table

Alarm Start Date	Alarm Stop Date	Point Description	Alarm Duration (minutes)	Alarm Category
Aug 8, 2017 5:56 PM	Aug 8, 2017 5:56 PM	Analog Input 1	0:00:00	Security
Aug 8, 2017 5:56 PM	Aug 8, 2017 5:56 PM	Analog Input 1	0:01:32	Security
Aug 8, 2017 5:54 PM	Aug 8, 2017 5:54 PM	Analog Input 1	0:00:00	Security
Aug 8, 2017 5:54 PM	Aug 8, 2017 5:54 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:13 PM	Aug 3, 2017 5:14 PM	Analog Input 1	0:00:27	Security
Aug 3, 2017 5:11 PM	Aug 3, 2017 5:13 PM	Analog Input 1	0:01:50	Security
Aug 3, 2017 5:11 PM	Aug 3, 2017 5:11 PM	Analog Input 1	0:00:06	Security
Aug 3, 2017 5:11 PM	Aug 3, 2017 5:11 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:08 PM	Aug 3, 2017 5:08 PM	Analog Input 1	0:00:03	Security
Aug 3, 2017 5:08 PM	Aug 3, 2017 5:08 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:08 PM	Aug 3, 2017 5:08 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:05	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:10	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:03	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:02 PM	Aug 3, 2017 5:02 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:02 PM	Aug 3, 2017 5:02 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:02 PM	Aug 3, 2017 5:02 PM	Analog Input 1	0:00:00	Security
Aug 8, 2017 5:56 PM	Aug 8, 2017 5:56 PM	Analog Input 1	0:00:00	Security
Aug 8, 2017 5:56 PM	Aug 8, 2017 5:56 PM	Analog Input 1	0:01:32	Security
Aug 8, 2017 5:54 PM	Aug 8, 2017 5:54 PM	Analog Input 1	0:00:00	Security
Aug 8, 2017 5:54 PM	Aug 8, 2017 5:54 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:13 PM	Aug 3, 2017 5:14 PM	Analog Input 1	0:00:27	Security
Aug 3, 2017 5:11 PM	Aug 3, 2017 5:13 PM	Analog Input 1	0:01:50	Security
Aug 3, 2017 5:11 PM	Aug 3, 2017 5:11 PM	Analog Input 1	0:00:06	Security
Aug 3, 2017 5:11 PM	Aug 3, 2017 5:11 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:08 PM	Aug 3, 2017 5:08 PM	Analog Input 1	0:00:03	Security
Aug 3, 2017 5:08 PM	Aug 3, 2017 5:08 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:08 PM	Aug 3, 2017 5:08 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:05	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:10	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:03	Security
Aug 3, 2017 5:04 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:04 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:00	Security
Aug 3, 2017 5:03 PM	Aug 3, 2017 5:03 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:02 PM	Aug 3, 2017 5:02 PM	Analog Input 1	0:00:01	Security
Aug 3, 2017 5:02 PM	Aug 3, 2017 5:02 PM	Analog Input 1	0:00:00	Security

Page 2

### Report can be used for:

- Any data point
- Aggregator / Node in user defines view

### Configurable Data of Report:

- Time range [Last, Rolling, Current or user defined]
- Elements to display in report [All, Graphics, Details Table, Summary Table]
- Alternative title of report
- Number of alarms (e.g. Top 5)
- Optional use of System Name and ID in Header or footer
- Name, Description of Alias to be used for point description

### Report Output:

- Summary about data points included in the report
- Graphics,
- Details Table
- Summary Table

# Pharma Validation Reports:

## 2.Statistic Summary MKT Report

Report displays alarm details and/or summary for the selected time range and data points.

**Release Version:**  
V3.0 / EP01

**SIEMENS** Run at: Aug 9, 2017 10:35 AM

**Statistic**

Purpose:  
Statistic information for analog value and the Mean Kinetic if it is a Temperature values

Selected element:  
System1\_PharmaValidationReports\_PharmaValidationReports\_Building\_1Floor\_TL0\_BACnetNetwork\_Hardware\_System1BA\_BUPFWWStStSmWStStSmHuOu\_Present\_Value

Period:  
From: 2 August 2017  
To: 8 August 2017  
Interval: Day

Details Table:

Point Description	Slot (Valid Records)	MKT	Minimum	Average	Maximum	Std Deviation
Outside air humidity (%RH)	Aug 2 (8)	-	0	0	0	63.52
	Aug 3 (2)	-	0	0	0	63.52
	Aug 7 (578)	-	0	62.52	66.58	11.29
	Aug 8 (1055)	-	0	64.27	67.97	6.18

Summary Table:

Point Description	Valid Records	MKT	Minimum	Average	Maximum	Std Deviation
Outside air humidity (%RH)	2193	-	0	63.52	67.97	8.94

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### Report can be used for:

- Any data point
- Aggregator / Node in user defines view

### Configurable Data of Report:

- Time range [Last, Rolling, Current or user defined]
- Interval [Day, Week, Fortnight, Month, Quarter, Half Year, Year]
- Elements to display in report [All, Graphics, Details Table, Summary Table]
- Display of Mean Kinetic Temperature (MKT)
- Alternative title of report
- Optional use of System Name and ID in Header or footer
- Name, Description of Alias to be used for point description

### Report Output:

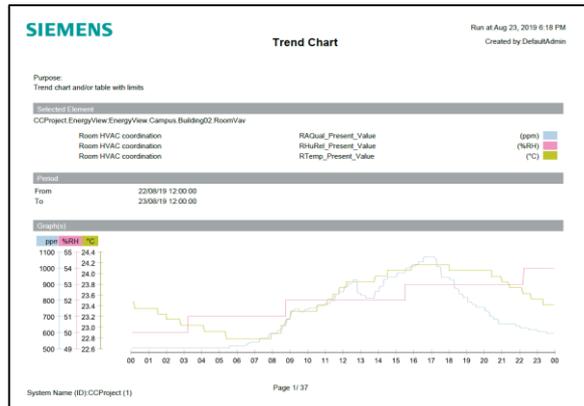
- Summary about data points included in the report
- Graphics,
- Details Table
- Summary Table

# Pharma Validation Reports:

## 3. Trend Chart Report (and Trend Chart Multi Axis Report)

Report displays trend details and/or summary for the selected time range and data points with limits. The table indicates with arrows and colors when limits are reached.

**Release Version:**  
V3.0 / EP01



### Report can be used for:

- Any data point
- Aggregator / Node in user defines view

### Configurable Data of Report:

- Time range [Last, Rolling, Current or user defined]
- Display limits [Limit Range or Limit Line]
- High/ Low Limit Value
- Number of y Axis (up to 10)
- Elements to display in report [All, Graphics, Details Table, Summary Table]
- Alternative title of report
- Optional use of System Name and ID in Header or footer
- Name, Description of Alias to be used for point description

**SIEMENS Trend Chart** Run at Aug 23, 2019 6:18 PM  
Created by DefaultAdmin

Summary Table

Point Description	Minimum	Average	Maximum
Room HVAC coordination	506.67 ppm	73.94 ppm	1050.00 ppm
Room HVAC coordination	50.00 %RH	51.94 %RH	54.00 %RH
Room HVAC coordination	22.70 °C	23.51 °C	24.16 °C

Table

Time Stamp	Series 1	Series 2	Series 3
22/08/19 12:03:16	506.67 ppm		
22/08/19 12:03:16		50.00 %RH	
22/08/19 12:04:03		50.00 %RH	
22/08/19 12:04:03	506.67 ppm		
22/08/19 12:05:26			23.47 °C
22/08/19 12:09:04			23.67 °C
22/08/19 12:12:01			23.35 °C
22/08/19 12:12:41	506.67 ppm		
22/08/19 12:12:41		50.00 %RH	
22/08/19 12:14:04		50.00 %RH	23.35 °C
22/08/19 12:14:04	506.67 ppm		
22/08/19 12:14:36			23.35 °C
22/08/19 12:19:04		50.00 %RH	23.35 °C
22/08/19 12:22:06			
22/08/19 12:22:06	506.67 ppm		
22/08/19 12:23:46			23.35 °C
22/08/19 12:24:05			23.35 °C
22/08/19 12:24:05	506.67 ppm		50.00 %RH
22/08/19 12:31:31	506.67 ppm		

System Name (ID): CCProject (1) Page 2/37

### Report Output:

- Summary about data points included in the report
- Graphics,
- Details Table
- Summary Table (with Min/Max/Avg)

# Pharma Validation Reports:

## 4.Trend Table Report

Report displays trend details for the selected time range and data points in a table.

**Release Version:**  
V3.0 / EP01

The screenshot shows a Siemens report titled "Trend(s) Tables" with the following details:

- Purpose:** Table of trend(s)
- Selected element:** System1\_Pharma/ValidationReports/Pharma/ValidationReports\_Building/Floor\_TL0\_SACNetwork\_Hardware\_System1\_T01\_F1P/Wireless/WeatherSenT0a\_Present\_Value
- Table Title:** Outside air temperature
- Period:** From: Aug 8, 2017 12:00 AM; To: Aug 9, 2017 12:00 AM
- Table:**

Time Stamp	Outside air temperature
Aug 8, 2017 9:10 AM	0 °C
Aug 8, 2017 9:19 AM	0 °C
Aug 8, 2017 9:53 AM	29.79 °C
Aug 8, 2017 9:53 AM	29.73 °C
Aug 8, 2017 9:53 AM	29.69 °C
Aug 8, 2017 9:54 AM	29.69 °C
Aug 8, 2017 9:54 AM	29.67 °C
Aug 8, 2017 9:54 AM	30.11 °C
Aug 8, 2017 9:54 AM	30.3 °C
Aug 8, 2017 9:54 AM	30.31 °C
Aug 8, 2017 9:54 AM	30.91 °C
Aug 8, 2017 9:54 AM	30.72 °C
Aug 8, 2017 9:54 AM	30.82 °C
Aug 8, 2017 9:55 AM	30.71 °C

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### Report can be used for:

- Any data point
- Aggregator / Node in user defines view

### Configurable Data of Report:

- Time range [Last, Rolling, Current or user defined]
- Alternative title of report
- Optional use of System Name and ID in Header or footer
- Name, Description of Alias to be used for point description

### Report Output:

- Summary about data points included in the report
- Details Table
- Summary Table (with Min/Max/Avg)

# Pharma Validation Reports:

## 5. Audit Trail Report

Report displays Audit Trail activities for the selected time range and data points in a table.

**Release Version:**  
V4.1

**SIEMENS** Run at: Aug 23, 2019 6:26 PM  
Created by: DefaultAdmin

### Audit Trail Report

Purpose:  
Report of audit trail activities

**Selected Element**  
CCProject.ManagementView.ManagementView

**Period**  
From: Aug 22, 2019 12:00 AM  
To: Aug 23, 2019 12:00 AM

**Table**

Time Stamp	( Name )Description	Property	Status	Quality	Previous Quality
Aug 22, 2019 9:17 AM	(Users) Users <b>Management Location</b> CCProject.ManagementView.Project.System.Settings.Users		Succeeded		
	<b>Action</b> Initiate Client Shutdown <b>by User:</b> DefaultAdmin		<b>Validation Profile</b> Disabled		<b>Object Version</b> 0
			<b>Workstation</b> MD1F837C		
Aug 22, 2019 9:17 AM	(Users) Users <b>Management Location</b> CCProject.ManagementView.Project.System.Settings.Users		Succeeded		
	<b>Action</b> Manual Logoff <b>by User:</b> DefaultAdmin		<b>Validation Profile</b> Disabled		<b>Object Version</b> 0
			<b>Workstation</b> MD1F837C		

System Name (ID): CCProject (1) Page 1/7

### Report can be used for:

- Any data point
- Aggregator / Node in user defines view

### Configurable Data of Report:

- Time range [Last, Rolling, Current or user defined]
- Alternative title of report
- Optional use of System Name and ID in Header or footer
- Name, Description or Alias to be used for point description

### Report Output:

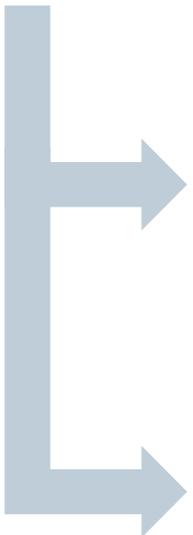
- Summary about data points included in the report
- Audit trail records actions done by which user from which workstation and whether it was successful and the comment entered by the user.

# Licensing of Advanced Reports

## Advanced Reports

Advanced Reports functionality is the base line for all kind of Advanced Reports and is included in the following licenses:

- Desigo CC Standard Feature Set, CCA-STD-FSET, P55802-Y114-A100
- Desigo CC Compact Validated Monitoring, CCA-CMPT-VM, P55802-Y121-A100



## Energy & Power Reports

Energy and Power Reports require managed meter functionality. The required license can be added to the Standard Feature Set (CCA-STD-FSET) only.

- Add 10 Meter CCA-10-METER, P55802-Y152-A411
- Add 100 Meter CCA-100-METER, P55802-Y152-A412

## Pharma Validation Reports

Pharma Validation Reports do not require any additional licenses.

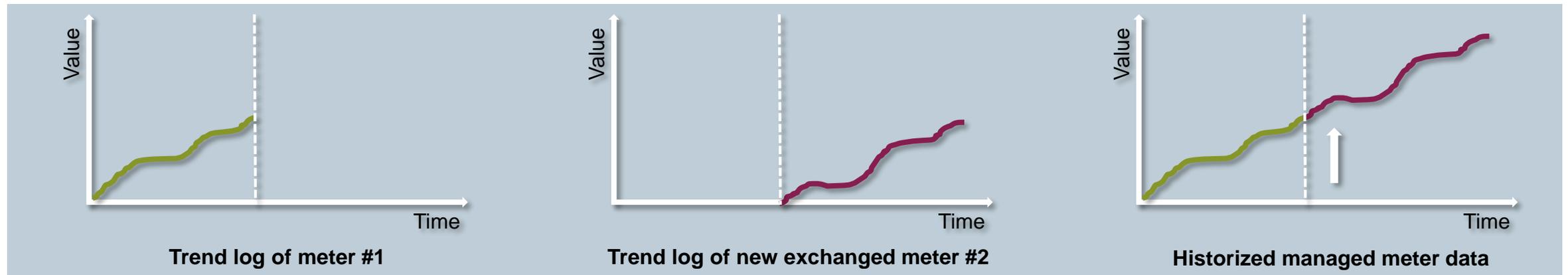
# Backup Information

# Energy & Power Reports Require Managed Meters

Managed Meters are a layer on the top of consumption trend logs.

Managed meters enable :

- Retrospective management of metering history (historization)  
e.g. assign a trend log to one meter for a period of time and another trend log for another period or add an offset at a specific time.
- Categorization / Classification meters
- Change of units
- Monitoring for irregular values and roll over





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