

Desigo CC V 4.2 Advanced Reports

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Concept of Advanced Reporting

Desigo CC has an advance reporting engine for specific market needs







Concept of Advanced Reports in Desigo CC



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**:

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- 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





- 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]

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

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

| IEMENS Ingenuity for Life |
|-----------------------------------------------------------------------------------------------------------------|
| farameter |
| Parameters marked with * are required. Position of page number on footer: left, Center, right or not show: * |
| Center V Show Total Page number: |

Show date and time in footer (disable means date and time in

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

Name of site (shown below logo or in right if time is in foote

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Logo to display in report

Null Value

VendorLog

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Customizing Reports What options are available for graphical representation?



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| Purpose: Comparin | g the | Sumn | ne of con | sumption | betwe | en 201 | 5 and 201 | 16 | | | | | |
| Meter Do | scrip | tion | | | | Med | ia Group |) | Media | | U | sage | |
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| bruary | | | | | | | 271.53 | | | 2 | 78.84 | | 7.3 |
| ni | | | | | | | 109.28 | | | 2 | 80.96 | | 171.68 |
| ix. | | | | | | | 296.89 | | | 2 | 99.76 | | 2.87 |
| ne | | | | | | | 289.33 | | | | 16.11 | | -273.22 |
| A Clust | | | | | | | 293.37 | | | 2 | 94.16 99.22 | | 0.79 |
| ptember | | | | | | | 285.74 | | | 2 | 89.66 | | 3.92 |
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| vember | | | | | | | 61.63 | | | 2 | 85.41 | | 223.78 |
| cember | | | | | | | 295.19 | | | | 265.3 | | -29.89 |

| Consumption report for the following list of Managed meter(s) Media (Description Media (Crosp) Media Feasil Fossil Crude OI Deniad Finite 1 January 2016 To 31 December 2016 Interval Interval Month Crude OI | Usage General | |
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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



Release Version: Report compares the total consumption of a meter or a node for two configurable years against each other. V3.0 Report can be used for: SIEMENS Run at : Aug 8, 2017 8:58 AM Run at:Aug 7, 2017 4:21 PM SIEMENS Comparing Year Consumptio **Comparing Year Consumption** Managed Meter Purpose : Comparing the Summe of consumption for the month Purpose Aggregator / Node in user defined view e of consumption between 2015 and 2016 Comparing the Sur Meter De Electrica Electrical Electrica General Electrical2 Electrica Fossi General 5.5 5.4 MWB **Configurable Data of Report:** 5.3 320 52 300 Media group 5.1 280 5.0 260 4.9 Media 240 2016 220 2016 200 Two years to compare 180 2015 160 Alternative title of report 2016 140 -120 - Alternative purpose text 100 -80 60 **Report Output:** 2015 (MWh) 4.9 4.62 4.89 4.55 4.88 2016 (MWh) 4.83 4.57 4.38 4.67 4.86 Feb Mar Apr May Jun Jul Aug Sep Oct Jan Days of July -0.06 -0.06 -0.51 0.12 -0.01 0.47 -0.23 -0.24 0.35 -0.24 0.36 0.52 0.55 0.57 0.55 0.57 0.8 -0.68 -0.68 Table Summary about meter included in the report 2015 Delta 2016 (MWh (MWh Graphic January February March 296.85 149.5 -147.34 7.3 -2.47 171.68 4.62 4.11 4.82 278.84 296.99 271.53 299.46 Table with yearly value and delta April May June July 109.28 280.96 4.68 4.91 4.68 5 5.16 4.33 299.76 2.87 296.89 -273.22 16.11 4.59 5.13 4.66 293.37 294.16 0.79 4.65 4.61 4.46 Hyperlinks for monthly drill down and back up again August Septemb 299.72 299.22 -0.5 3.92 289.66 285.74 4.62 5.17 296.89 0.69 Monthly drill down values per day and delta Octobe 4.76 5.43 4.77 4.47 4.25 296.2 4.19 Novemb 61.63 285.41 223.78 265.3 3052.79 4.83 5.15 4.85 Decembe 295.19 -29.89 Total perio 3095 19 -42.39

Energy & Power Reports: 2.Consumption Report



| Reports the total consumption of a meter or a node f | for a configurable time range. | Release Version : V3.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Mun at: Aug 9, 2017 9:27 AM Consumption Purpose : Consumption report for the following list of Managed meter(s) Meter Description Media Group Media Fossil Usage General Period From 1 April 2017 | Report can be used for: Managed Meter Aggregator / Node in user defined vi | ew |
| Interval Week | Configurable Data of Report: Media Group Media Time range [Last, Rolling, Current or Interval [Day, Week, Month, Year] Graph Type [Default, Line(sum), Line Alternative title of report Alternative purpose text Limits | ⁻ user defined] e(comp), Bar] |
| WH 32017 9.21 WH 42017 33.62 WH 52017 34.45 WH 62017 34.62 WH 62017 34.72 WH 82017 34.32 WH 82017 34.93 WH 82017 34.92 WH 82017 34.02 WH 82017 34.02 WH 82017 34.02 WH 82017 34.02 WH 82017 32.83 WH 82017 32.82 WH 82017 | Report Output: Summary about meter included in th Graphic Table with total consumption value pression | e report er interval |

Energy & Power Reports: 3.Load Profile Report



Release Version: Report provides the minimum, average and maximum power of a meter or a node for a configurable time frame. V3.0 Report can be used for: Run at : Aug 9, 2017 9:43 AM SIEMENS Load Profile Report Managed Meter Purpose : This report display the average power of an interval for a period Aggregator / Node in user defined view Genera From January 2016 12:00 AM To Interval 31 December 2016 12:00 AM **Configurable Data of Report:** MW Media Group 0.240 0.235 Media 0.230 0.225 0.220 Time range [Last, Rolling, Current or user defined] 0.215 0.210 Interval [Auto, 15Min, 1h, 3h,Quarterday, Halfday, Day, Week, Month] 0.205 0.200 Alternative title of report 0.195 0.190 Alternative purpose text 0.185 0.180 Limits 0.175 0.170 0.165 0.160 Table Date Time Jan 1 Jan 2 Jan 3 Jan 4 Jan 5 **Report Output:** Min (MW) Avrg (MW) Max (MW) 0.4 0.19 0.4 Summary about meter included in the report Jan 6 Jan 7 Jan 8 Jan 9 0.4 Graphic 0.19 0.4 0.01 0.21 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 no | de for a configurable time | frame. | Release Version: V3.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Max power report Purpose : This report display the max value of an interval for a period Meter Description Media Group Meter Description Media Group Heating 1 Heating Period From 1 April 2017 | | Report can be used for: Managed Meter Aggregator / Node in user defined view | |
| To 30 June 2017 Week Week | | Configurable Data of Report: Media Group Media Time range [Last, Rolling, Current or user define Interval [Day, Week, Fortnight, Month, Quarter, Graph Type [Default, Line, Bar] Alternative title of report Alternative purpose text | ed] Half Year, Year, 5 Year] |
| U0 W13 W14 W15 W16 W17 W18 W19 W20 W21 W22 W23 W24 W25 W26 Table Date Time Of fax Maximum Flow (m3) 148 148 148 148 141 15 W15 2017 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 122 17 15 15 15 125 15 125 15 15 125 15 125 15 125 15 15 15 15 15 15 1 | | 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 cor | figurable time range. Release Version: V3.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| SIEMENS Run at: Aug 9, 2017 9.58 AM Comparing 2 Groups Purpose : Comparing the day Consumption of 2 Groups of Managed Meter(s) System 1.Energy_Reports Energy_Reports Energy_Reports Building 1Floor Meter Name Media Group Meter Name Media Group Crude OI General System 1.Energy_Reports Energy_Reports Energy System 1.Energy Reports Energy Reports Building 1Floor | Report can be used for: Managed Meter Aggregator / Node in user defined view | |
| Meter Name Media Group Media Usage Fossil Fossil Crudo Oli General | 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 | |
| May 2016 559.79 559.79 0 June 2016 14.12 14.12 0 July 2016 553.07 0 0 August 2016 569.99 0 569.99 0 September 2016 545.96 551.95 0 0 October 2016 550.61 550.81 0 0 December 2016 550.61 550.81 0 0 Page 2 / 2 Page 2 / 2 0 0 0 | Report Output: Summary about meter included in the report Graphic Table with maximum per interval | |

Energy & Power Reports: 6.Consumption Node Report



Release Version: Reports the total consumption of all medias of a node for a configurable time range. V3.0 Run at : Aug 29, 2017 9-43 AM Report can be used for: SIEMENS SIEMENS Run at : Aug 29, 2017 9:49 AM Consumption overview Consumption Aggregator / Node in user defined view rview of the differen Purpose ort for the following list of Managed meter(s From To Interval 1 January 2016 31 December 2016 Month and the System1 Energy_Reports Energy_Reports Builds From 1 January 2016 To 31 December 2016 Valid to Interval Nuclear Group Renewable Focal Focal Vater Electrical Focal Focal Focal Vater Water
 Censurgation
 Valid from

 1556 E7 MW
 Jail 12 J015 L03 AM

 1566 E7 MW
 Jail 12 J015 L03 AM

 1565 A6 MW
 Jail 12 J015 L03 AM

 6502 22 m3
 Jail 12 J015 L03 AM

 8607 27 m3
 Jail 12 J015 L03 AM

 8607 77 m3
 Jail 12 J015 L03 AM

 1641 83 MW
 Jail 12 J015 L03 AM

 6101 95 MWA
 Jail 12 J015 L03 AM
 Razonombilaci Razonombilaci Economic Economica Materica Electrica Electrica Economica Wood Wood Crude Gil Heat Fresh Fossil Crude Gil Heat Fresh **Configurable Data of Report:** 2Floor m¹ Time range 6128 m3 Jul 12, 2913 12:09 AM 6153.05 m3 Jul 12. 2013 12:00 Al Interval Page 1/1 Alternative title of report Alternative purpose text **Report Output:** Summary about meter included in the report Graphic Table Date Time mption (m3) Jan 1 Jan 2 Jan 3 Jan 4 Jan 5 Jan 6 Jan 7 Jan 8 Jan 9 Jan 10 Jan 11 17.1 Table with value • 17.99 18.42 17.33 Hyperlinks for media drill down 19.59 17.48 Drill down values per day and delta 17.7 17.57 18.15

Energy & Power Reports: 7.Budget Report



| Reports the consumption of meters or node compared against def | fined budgets. Release Version: V3.0 / EP01 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fun at.lan 23, 2018 4 28 FM Consumption Budget Report Purpose: Consumption Budget report for the following list of Managed meter(s) Mice's Occurrent Media Ginzapi Media Ginzapi | Report can be used for: Managed Meter Aggregator / Node in user defined view |
| To 31 December 2017 Interval More Consumption Budget December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December December | 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 |
| Pethaany 2017 131.42 600 -468.58 21.9% March 2017 148.05 400 -261.95 37.0% Apera 2017 142.79 600 -261.94 37.7% March 2017 142.19 600 -261.94 37.7% March 2017 142.19 600 -261.94 37.7% Jame 2017 142.39 500 -157.02 47.7% Marga 2017 142.39 500 -97.40 47.7% Marga 2017 142.39 500 -97.40 47.7% Marga 2017 142.39 500 -97.80 296.5% Suppersonar 2017 143.16 550 -400.82 25.7% October 2017 142.43 1000 -87.57 142.2% December 2017 142.43 1000 -87.57 142.2% Testal period 1421.88 5400 -73.3.2 26.7% | 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 me | ter fee and tax option. | Release Version: V3.0 / EP01 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Contraction of the Manager Interference Contracting Cost Report Page Contracting Cost Report Cost Cost Repo | Report can be used for: Managed Meter Aggregator / Node in user defined view | V |
| Metric Data Time Cons.Ligh Cons.Light Cons.Light <thcons.light< th=""> Cons.Light Cons.Lig</thcons.light<> | Configurable Data of Report: Media Group Media Time range [Last, Rolling, Current or us Interval [Day, Week, Month, Quarter, H Tariff, tax and meter fee data Alternative title of report Alternative purpose text | ser defined] Ialf Year, Year] |
| | Report Output:• Summary about meter included in the r• Table with consumption and cost for all• Table with total cost for tax, meter fee a | report tariffs and consumption |

Energy & Power Reports: 9.Emission Report



Release Version:

V3.0 / EP01

Reports the CO₂ emissions per Media on a selected node in vertical bar graph and table.

| | - | Emissions Rep | ort | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| | | | | |
| urpose: missions report for th | e following list of Mana | ged meter(s) | | |
| Meter Description | | Media Group | Media | Usage |
| NewManagedMeter10 | a | Water | Fresh | Potable |
| NewManagedMeter1 | | Renewable | Wood | Heating |
| NewManagedMeter5 | | Electrical | Fossil | Proventia List Water |
| NewManagedMeter4 | | Flectrical | Fossil | IT Equipment |
| NewManagedMeter2 | | Renewable | Biodiesel | Heating Water |
| NewManagedMeter6 | | Electrical | Fossil | Lifts |
| NewManagedMeter3 | | Electrical | Fossil | Total Meter |
| NewManagedMeter9 | | Heating | Heat | Heating |
| NewManagedMeter7 | | Fossil | Crude Oil | Refrigeration |
| Period | | | | |
| From | 1 December | 2017 12:00 AM | | |
| То | 31 Decembe | r 2017 12:00 AM | | |
| Heat Water Fresh | | | | |
| Renewable Wood Electrical Fossi Crude Oil 0 | 50000 100000 150 | 000 20000 25000 3000 | 00 350000 400000 454 | 1000 50000 550000 60000 |
| Renewable Wood Electrical Fossi Crude Cil 0 | 50000 100000 150 | 000 20000 25000 3000 | 00 350000 400000 454 | 0000 50000 550000 60000 kg CO2 |
| Ranovable Bodesel Ranovable Bodesel Ranovable Bodesel Bodesel Ranovable Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodesel Bodese | 50000 100000 150 Media | 0000 200000 250000 3000 Consumption an x490 | co 35000 40000 454 Consumption (other unt) | 0000 500000 550000 60000 kg CO2 cO22 Emissions kg CO2 |
| Ranevable Bodiesel Ranevable Wood Electrical Fossi Crude Oil 0 Table Media Group Fossi | socio 100000 150 Media Crude Oli | 000 200000 250000 3000 000 250000 3000 000 250000 3000 000 250000 3000 000 250000 3000 000 250000 250000 3000 | consumption (other unt) Estimate in KWh | 0000 500000 550000 60000 kg CO2 fg CO2 1.58 |
| Renewable Biodreset Renewable Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodreset Biodre | socio 100000 150 Media Crude Oli Fossi | 000 200000 250000 3000 Consumption in 939 601 0.05 00 | Consumption (other unit) Estimate in XWn 5.99 | CO2 Emissions kg CO2 kg CO2 fruissions kg CO2 1.58 57.006.05 |
| Biodiesel Renewable Biodiesel Renewable Biodiesel Renewable Biodiesel Renewable Biodiesel Biodiesel Renewable Biodiesel Biodiesel Renewable Biodiesel Biodiesel Renewable Biodiesel Biodiesel Biodiesel Renewable Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel Biodiesel | S0000 100000 150 Media Oride Oli Forsio Nordeweid | Consumption in 4407000 144070000 144070000 | 00 350000 400000 450 Consumption (other unt) Esemate in XVIn 5.99 - | CO2 Emissions kg CO2 551,006 dt 561,006 dt |
| Biodiesel Renewable Wood Electrical Fossi Fossi Fossi Biodical Renewable Water | Socco 100000 150 Media Grude Oli Fresh Fresh Fresh | Consumption in 449 (41,799 00 140,799 00 150,036 00 | Consumption (other unit) Estimate in XWh 5.99 - - - | 0000 500000 550000 60000 kg CO2 kg CO2 for this kg CO2 571,000 65 58,000 01 0.00 - |
| Biodiesel Renewable Fossi Fossi Fossi Fossi Renewable Water Heating | Socoo 100000 150 Media Crude Oil Fosal Wood Biodiesel Fresh Heat | 000 200000 250000 3000 Consumption an 345 601 050 148,796 00 150,036 0 | Consumption (other Long, Estimate in XM - - - | 0000 500000 550000 60000 kg CO2 fg CO |

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
- CO₂ format [Gram, Kilogram, Tons]
- Emission factor per media
- Alternative title of report
- Alternative purpose text

- Summary about meter included in the report
- Graphical indication for CO₂ emission per media
- Table with CO₂ emission data per media

Energy & Power Reports: 10.Energy Performance Report



Release Version:

V3.0 / EP01

Reports the performance of energy consumption related to covered space in m².

| SIEMEN | IS | Performa | ince Repo | ort | Run at J | ian 23, 2018 4:40 PM |
|---------------------------------|-----------------------------------------|---------------------|--------------------|-----------------------|-----------------|--------------------------------|
| Arpose: Performance report f | or the following periods, for each Mana | iged meters found w | e do a consump | tion / surface ratio. | | |
| Period | | | | | | |
| From | 1 December 2017 | | | | | |
| To | 31 December 2017 | | | | | |
| Paroot | | | | | | |
| System 1.User-J | shr: User-John Campu-Zug Zahlerweg | -1 | | | | |
| , | | | | | | |
| Consumption | | | | | | |
| | | | | | | |
| | Meter Description | Media Group | Media | Consumption | Surface covered | Performance cons. Unit / m2 |
| Floor-1 | NewManagedNeter1 | Renewable | Wood | 26.68MWh | 80 | 0.333 |
| | NewManagedMeter2 | Renewable | Wood | 26.35MWh | 80 | 0.329 |
| Floor-2 | NewManagedNeter3 | Electrical | Fossil Cauda Of | 26.93MWh | 500 | 0.054 |
| Floor-3 | NewManagedNeter5 | Flartinal | Erosal | 97.47m3 36.064444 | 40 | 0.27 |
| | NewManapedMeter® | Forisid | Crude Oil | 94.65m3 | 80 | 1,183 |
| Floor-4 | NewManagedNeter7 | Heating | Heat | 104.06m3 | 3000 | 0.035 |
| | NewManagedNeter8 | Heating | Heat | 99.5m3 | 80 | 1.244 |
| Floor-5 | NewManagedMeter10 | Water | Fresh | 100.26m3 | 3000 | 0.033 |
| | NewManagedMeter9 | Water | Fresh | 100.89m3 | 500 | 0.202 |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

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 m²)
- Alternative title of report
- Alternative purpose text

- 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 us | sage group consumption | Release Version: V3.0 / EP02 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Run at Apr 20, 2018 3:11 AM Power Usage Effectiveness Consumption Graphics KWh Head Cons. Head Cons. Head Cons. | Report can be used for:Managed MeterAggregator in user defined view | |
| 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 | 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 def Interval [Day, Week, Month, Year] Alternative title of report Alternative purpose text | ined] |
| Mar 5 1403 4746 3.01 Mar 6 14963 4696 3.21 Mar 7 16053 5198 2.9 Mar 8 14208 4995 2.86 Mar 0 15431 4852 3.10 Mar 10 15436 4652 3.12 Mar 11 14244 4003 2.91 Page3/4 | Report Output: Summary about node included in the report Graphic Table with maximum per interval | |

Energy & Power Reports: 12. Pie Chart Consumption Report



Release Version: Reports the consumption contribution of a meters or usage types for a Node and a configurable time range. V3.0 / EP02 Report can be used for: Aggregator / Node in user defined view un at Anr 20, 2018 3-12 AM SIEMENS Consumption Overview ort with PIE chart representation and ornuned per child (first level) and user 1 March 2018 31 March 2018 **Configurable Data of Report:** 133 729 ~ 50.07 Media Group Media Time range [Last, Rolling, Current or user defined] Interval [Day, Week, Month, Year] Alternative title of report Alternative purpose text Meter Description NewManagedMeter NewManagedMeter Total period n (MWh) 133.34 133.73 267.07 49.93% 50.07% 100% **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



Release Version:

V3.0 / EP02

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



| Date Time | HDD F Reference | IDD I | 1DD Factor | Consumption | Consumption Not Corrected | Consumption Corrected | Consumption Total |
|----------------|--------------------|-------|----------------|-------------|------------------------------|--------------------------|----------------------|
| | | | | (m3) | (m3) | (m3) | (m3) |
| January 2017 | 422.3 | 568.5 | 0.74 | 564.43 | 169.33 | 293.49 | 462.8 |
| February 2017 | 459.9 | 338.9 | 1.36 | 504.92 | 151,48 | 479.64 | 631.1 |
| March 2017 | 288.5 | 234.1 | 1.23 | 567.82 | 170.34 | 489.83 | 660.1 |
| April 2017 | 179.6 | 203.7 | 0.88 | 547.66 | 164.3 | 338.01 | 502.3 |
| May 2017 | 80.3 | 86.2 | 0.93 | 559.46 | 167.84 | 364.82 | 532.6 |
| June 2017 | 22.2 | 13.6 | 1.63 | 549.7 | 164.91 | 628.12 | 793.0 |
| July 2017 | 7.8 | 8.3 | 0.94 | 559.56 | 167.87 | 368.1 | 535.9 |
| August 2017 | 14.8 | 13.4 | 1.1 | 561.9 | 168.57 | 434.43 | 60 |
| September 2017 | 84.9 | 87.9 | 0.97 | 546.16 | 163.85 | 369.26 | 533.1 |
| October 2017 | 184.1 | 155.5 | 1.18 | 561.3 | 168.39 | 465.18 | 633.5 |
| November 2017 | 246.6 | 35.4 | 6.97 (2.5) | 550.67 | 165.2 | 963.67 | 1128.8 |
| December 2017 | 371.7 | 0 | Infinity (2.5) | 94.65 | 28.4 | 165.64 | 194.0 |
| | | | | | | | |

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

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

Energy & Power Reports: 14. Degree Days Regression Line Report



Release Version: Reports the consumption against the Degree Day corrected temperature. V3.0 / EP02 Report can be used for: Run at:Apr 20, 2018 3:09 AM Run at Apr 20, 2018 3:09 AM SIEMENS SIEMENS Degree Day Report, Regression line Degree Day Report, Regression line Managed Meter Aggregator in user defined view Degree Day report for the following Building and list of Managed meter(s). The report display th sion Equation: y = 0.065 x + 117.999 160 Zurich area HDD 150 140 130 120 -110 **Configurable Data of Report:** From 1 January 2017 31 December 2017 100 Interva Interval [last Day, last Week, last Month, last Year] HDD actua Media Group MWh Consumption (MMb) 160 40 150 30 Media 140 20 130 10 Alternative title of report 120 110 100 Alternative purpose text 90 70 60 40 30 **Report Output:** Heating Degree Days / Cooling Degree Days overview Consumption

- HDD / CDD Corrected Consumption
- Regression line

Energy & Power Reports: 14. Energy Signature Report



Release Version:

V3.0 / EP02

Reports the consumption against the outside temperature.

| Purpose: Energy Signature report for he average Outside Temp | r the following Building erature of the day. | g and list of Managed | I meter(s). The repo | ort between the Consumption and | |
|--------------------------------------------------------------------|-------------------------------------------------|-----------------------|----------------------|---------------------------------|---|
| Building / Area Name | | | | | |
| Zurich area HDD | | | | | _ |
| Maria Danasia Kan | | Marka Onesa | 11-17- | 115-5-55 | _ |
| Meter Description NewManagedMeter1 | | Renewable | Wood | General | |
| | | | | | |
| Period | | | | | |
| From | 1 March 2018 | | | | |
| To | 31 March 2018 | | | | |
| Interval | Day | | | | |
| Graphics | | | | | |
| | | | | | _ |
| MWh | | | | | |
| | | | | | |
| 5.6 | | | | | |
| 5.4 | • | | | | |
| 5.3 | | | | | |
| 5.2 | | | • | | |
| 5.0 | | • | • | | |
| 4.9 | | | | | |
| 4.8 | | | • • | | |
| 4.7 | | | | | |
| 4.5 | | | | | |
| 4.4 | | | | | |
| 4.3 | | | | | |
| 4.2 | | | | | |
| 4.0 | | | | | |
| 3.9 | | | | | |
| 3.8 | | | | | |
| 3.7 | | | | | |
| 3.0 | | | | | |
| 3.5 | | | | | |

| | EB | Run at:Apr 20, 2018 3:07 AN |
|-----------|-------------------------|-----------------------------|
| | Energy Signature Report | |
| able | | |
| Date Time | Consumption (MWb) | Outside Temperature (°C) |
| Mar 1 | 47 | 71 |
| Mar 2 | 4.87 | 91 |
| Mar 3 | 4.81 | 67 |
| Mar 4 | 5.05 | 47 |
| Mar 5 | 5.45 | 1.9 |
| Mar 6 | 5.06 | 0.6 |
| Mar 7 | 4.5 | -0.5 |
| Mar 8 | 513 | -0.1 |
| Mar 9 | 5.43 | 0.6 |
| Mar 10 | 4.86 | 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 | 4.61 | 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 | 4.63 | 1.1 |
| Mar 21 | 4.84 | 4.3 |
| Mar 22 | 4.86 | 6.7 |
| Mar 23 | 5.06 | 7.6 |
| Mar 24 | 4.77 | 6.6 |
| Mar 25 | 4.89 | 5.5 |
| Mar 26 | 4.73 | 9.7 |
| Mar 27 | 5.19 | 6.9 |
| Mar 28 | 3.47 | 5.7 |



Report Output:

Consumption and outside temperature per interval

Energy & Power Reports: 16. Consumption and Max Power Report



Release Version:

V3.0 / EP02

Reports the consumption against the outside temperature.

| | Energy and P Combined R | ower, eport | Created by:Defaul | tAdmin | 5121112 | | Energy and Power Combined Report | | Created by:DefaultAdmir |
|--------------------------------------------|----------------------------------|-------------------|---------------------------------------|--------|---------------|-----------------------|-------------------------------------|-------------------|-------------------------|
| Purpose: The report displays the maximu | um 15 minutes power demand and t | he energy consump | tion per selected interval | | Summary Table | inimum Cons. (MWb) | Average Cons. | Maximun Cons. | Total Con (MW |
| Meter Description | Media Group | Media | Usage | | | 12.46 (Jul 21) | 14.28 | 16.05 (Jul 28) | 442.7 |
| rennanageametero | Licensi | 1 Obda | General | | Table | | | | |
| Period | | | | | Date Time | | Max (MW) | | Consumption (MWh) |
| From | 1 July 2019 | | | | Jul 1 | | 0.40 | | 15.02 |
| To | 21 July 2010 | | | 1 | Jul 2 | | 0.40 | | 14.15 |
| Internal | Day | | | 1 | Jul 3 | | 0.38 | | 14.45 |
| in total web | Day | | | 1 | Jul 4 | | 0.40 | | 15.15 |
| | | | | | JULS | | 0.40 | | 15.19 |
| Graph(s) | | | | | Jul 0 | | 0.39 | | 14.22 |
| | | | | | Jul 7 | | 0.40 | | 14.09 |
| (MWh) | Consumption | 🔺 Max | | (MW) | Jul O | | 0.40 | | 14.62 |
| 22 | | | | 0.54 | Jul 10 | | 0.39 | | 14.55 |
| 22 | | | | 0.51 | Jul 11 | | 0.30 | | 12.56 |
| 21 | | | | | Jul 12 | | 0.39 | | 13.44 |
| 20 9 9 9 9 9 9 9 | | 111.1 | | 0.45 | Jul 13 | | 0.00 | | 14.84 |
| 19 | *********** | 99939 | | 0.10 | Jul 14 | | 0.39 | | 13.58 |
| 18 | | | | 0.40 | Jul 15 | | 0.40 | | 14.88 |
| 17 | | | · · · · · · · · · · · · · · · · · · · | 0.40 | Jul 16 | | 0.40 | | 13.76 |
| 16 | | | | 0.05 | Jul 17 | | 0.40 | | 14.50 |
| 15 | \sim $\wedge \wedge \wedge$ | 1 | $\sim \sim 1$ | 0.35 | Jul 18 | | 0.40 | | 13.89 |
| 14 | | - 1 | | | Jul 19 | | 0.40 | | 14.19 |
| 13 | V | | Min 12 71 MWb | 0.30 | Jul 20 | | 0.40 | | 14.72 |
| 12 | | | | | Jul 21 | | 0.38 | | 12.46 |
| 11 | | | | 0.25 | Jul 22 | | 0.40 | | 13.16 |
| 10 | | | | | Jul 23 | | 0.39 | | 13.53 |
| 0 | | | | 0.20 | Jul 24 | | 0.40 | | 14.67 |
| 0 | | | | | Jul 25 | | 0.40 | | 14.00 |
| 6 | | | | 0.15 | Jul 26 | | 0.39 | | 14.69 |
| 5 | | | | | Jul 27 | | 0.40 | | 14.50 |
| 4 | | | | 0.10 | Jul 28 | | 0.40 | | † 16.05 |
| 3 | | | | | Jul 29 | | 0.39 | | 13.78 |
| 2 | | | | 0.05 | Jul 30 | | 0.40 | | 13.46 |
| 1 | | | | | Jul 31 | | 0.40 | | 15.18 |
| 0 01 02 03 04 05 06 07 | 08 09 10 11 12 13 14 15 16 17 | 18 19 20 21 22 3 | 23 24 25 26 27 28 29 30 3 | 1 0.00 | | | | | |
| | | | Day | 1 | | | | | |
| | | | | 1 | | | | | |



- 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

- 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



Release Version:

V3.0 / EP01

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

| | | Alama Summary | | |
|---------------------|---------------------|-------------------|------------------------------|----------------|
| Istalis Table | | | | |
| Alarm Start Date | Alarm Stop Date | Point Description | Alarm Duration (hhummoss) | Alarm Category |
| Aug 8, 2017 5:56 PM | Aug 8, 2017 5:56 PM | Analog input 1 | 0.00.00 | Security |
| Aug 8, 2017 5:55 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 5:11 PM | Aug 3, 2017 6:13 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 6:04 PM | Analog Input 1 | 0:00:10 | occurty |
| 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 | 0.00.01 | 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 5:03 PM | Aug 3, 2017 6:03 PM | Analog input 1 | 0.00.00 | Security |
| Aug 3, 2017 5:02 PM | Aug 3, 2017 6:02 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 6 56 PM | Aug 8 2017 5-56 PM | Apaino Innut 1 | 0.00.00 | Receive |
| Aug 8, 2017 5:55 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 6:11 PM | Aug 3, 2017 5:11 PM | Analog Input 1 | 0.00.00 | Security |
| Aug 3, 2017 5:06 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 | 0:00:01 | 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 | 00:00:00 | Security |
| Aug 3, 2017 5:00 PM | Aug 3, 2017 5303 PM | Analog Input 1 | 0,00,00 | Security |
| Aug 3, 2017 5:03 PM | Aug 3, 2017 5103 PM | Analog Input 1 | 0100100 | 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 |
| | | Page2 | | |

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

- 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

| IEMENS | | Statistic | | | Run a | t:Aug 9, 2017 | 10:35 AM |
|-------------------------------|---------------------------------------|-------------------------------------|---------------|---------|---------|---------------|----------------|
| ² urpose: | | | | | | | |
| itatistic information for and | alog value and the Mean Ki | netic if it is a Temperature values | | | | | |
| Selected element | Percets Pharma Validation | Reports Building | | | | | |
| Floor.TLO_BACnetNetwo | rk_Hardware_System1'BA | BUPItWthStnSimWthStnSim'HuOa_ | Present_Value | | | | |
| Period | | | | | | | |
| From To Interval | 2 August 2017 8 August 2017 Day | | | | | | |
| Details Table | | | | | | | |
| Point Description | | Slot (Valid Records) | MKT | Minimum | Average | Maximun | 5t Deviatio |
| Outside air humidity | (%RH) | Aug 2 (8) | | 0 | 0 | 0 | 63.5 |
| | | Aug 3 (2) Aug 7 (578) | | 0 | 62.52 | 66.58 | 11.2 |
| | | Aug 8 (1605) | | 0 | 64.27 | 67.97 | 6.1 |
| Summary Table | | | | | | | |
| Point Description | | Valid Records | МКТ | Minimum | Average | Maximun | SI |
| Outside air humidity | (%RH) | 2193 | - | 0 | 63.52 | 67.97 | 8.9 |
| | | Page1/2 | | | | | |
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- 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

- 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



| SIEMENS | Trend | Trend Chart | | | | |
|------------------------|------------|-------------|-------------|--|--|--|
| Summary Table | | | | | | |
| Point Description | Minimum | Average | Maximum | | | |
| Room HVAC coordination | 506.67 ppm | 731.84 ppm | 1069.00 ppm | | | |
| Room HVAC coordination | 50.00 %RH | 51.94 %RH | 54.00 %RH | | | |
| Room HVAC coordination | 22.79 °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 | | | 23.47 °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 | | | 23.35 °C | | | |
| 22/08/19 12:14:04 | | 50.00 %RH | | | | |
| 22/08/19 12:14:04 | 506.67 ppm | | | | | |
| 22/08/19 12:14:36 | | | 23.35 °C | | | |
| 22/08/19 12:19:04 | | | 23.35 °C | | | |
| 22/08/19 12:22:06 | | 50.00 %RH | | | | |
| 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 | | | | | |

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

- 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 | s for the sele | ed time range and data points in a table. | Release Version: V3.0 / EP01 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| SIEMENS Pupper Tatied frends) Similar for an and a state of the state State of the state of the state of the state State of the state of the state of the state of the state State of the state of the s | Trend(s) Tables | Run at Aug 9, 2017 10 49 AM | Report can be used for: Any data point Aggregator / Node in user defines view | |
| Late Ang, 2,017 9 16 AM Ang, 2,017 9 56 AM | Outside ar temperature Paget / 54 | 0 °C 20 75 °C 20 95 °C 20 95 °C 20 95 °C 30 31 °C 30 31 °C 30 31 °C 30 31 °C 30 31 °C 30 31 °C 30 32 °C 30 32 °C 30 32 °C 30 32 °C 30 32 °C | Configurable Data of Report: Time range [Last, Rolling, Current or user define Alternative title of report Optional use of System Name and ID in Header Name, Description of Alias to be used for point of | ed] or footer lescription |
| | | | Report Output: Summary about data points included in the report Details Table Summary Table (with Min/Max/Avg) | rt |

Pharma Validation Reports:5. Audit Trail Report



| Report dis | Release Version: V4.1 | | | |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| SIEMENS Purpose: Report of audit trail activities | Audit Trail Report | Run at-Aug 23, 2019 6.26 PM Created by DefaultAdmin | Report can be used for: Any data point Aggregator / Node in user defines view | |
| Selected Element CCProject ManagementVier Period From To Table Time Stamp Aug 22, 2019 9:17 AM | W ManagementView Aug 22, 2019 12:00 AM Aug 23, 2019 12:00 AM Aug 23, 2019 12:00 AM (Verse Constraints of the second secon | Status Quality Previous Quality Succeeded Validation Profile Object Version Disabled 0 | Configurable Data of Report: Time range [Last, Rolling, Current or user def Alternative title of report Optional use of System Name and ID in Head Name, Description or Alias to be used for point | ined] der or footer nt description |
| Aug 22, 2019 9:17 AM | (Users) Users Management Location CCProject Management View Project System Settings.Users Action Manual Logoff by User: DefaultAdmin Page 1/ 7 (1) | Workstation MD1F837C Succeeded Validation Profile Object Version Disabled 0 Workstation MD1F837C | Report Output: Summary about data points included in the re Audit trail records actions done by which user whether it was successful and the comment experts the successful and the comment experiment of the successful and the comment experiment. | port from which workstation and ntered 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



Contact





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