RES DEV Team

RES BI Report

Documentation

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# RES BI Reports

## 1 - DM21 Operator Report

### List of Tables

MyDateValues, vDM2\_1\_1min\_Central, vPOD21\_MT\_DiallyValues, vPOD22\_MT\_DiallyValues, vPOD23\_MT\_DiallyValues, vPOD24\_MT\_DiallyValues

### List of KPIs

#### Net Meter

Net meter calculated based on CHP Meter = ([COGEN\_01]+[COGEN\_02])/60

COGEN\_01 = IF([COGEN1\_PWROUT\_ACT]>10,[COGEN1\_PWROUT\_ACT],0)

COGEN\_02 = IF([COGEN2\_PWROUT\_ACT]>10,[COGEN2\_PWROUT\_ACT],0)

COGEN1\_PWROUT\_ACT, COGEN2\_PWROUT\_ACT fields in vDM2\_1\_1min\_Central view.

vDM2\_1\_1min\_Central is an alias of table DM2\_1\_1min\_Central.

#### Engine 1 Capacity

Engine1 Capacity = Sum(vDM2\_1\_1min\_Central[COGEN\_01])/Sum(vDM2\_1\_1min\_Central[COGEN\_01Count])/250

COGEN\_01Count = IF([Cogen\_01]>0,1,0) (count of no zero values)

#### Engine 1 Runtime

Engine1 Runtime = SUM(vDM2\_1\_1min\_Central[COGEN\_01Count])/60

#### Engine 2 Capacity

Engine2 Capacity = Sum(vDM2\_1\_1min\_Central[COGEN\_02])/Sum(vDM2\_1\_1min\_Central[COGEN\_02Count])/250

COGEN\_02Count = IF([Cogen\_02]>0,1,0) (count of no zero values)

#### Engine 2 Runtime

Engine2 Runtime = SUM(vDM2\_1\_1min\_Central[COGEN\_02Count])/60

#### Biogas Engine

Field FT\_GC

#### Biogas Flare

Field FT\_GF

#### Total Biogas

Total Biogas = vDM2\_1\_1min\_Central[Biogas Engine]+vDM2\_1\_1min\_Central[Biogas Flare]

#### FeedStock Loading

Feedstock Loading = Sum(vPOD21\_MT\_DailyValues[POD21\_MT\_Daily])+Sum(vPOD22\_MT\_DailyValues[POD22\_MT\_Daily])+Sum(vPOD23\_MT\_DailyValues[POD23\_MT\_Daily])+Sum(vPOD24\_MT\_DailyValues[POD24\_MT\_Daily])

Variables explained bellow

#### POD21\_MT\_Daily

Maximum value from vPOD21\_MT\_DailyValues view

vPOD21\_MT\_DailyValues calculates the maximum value of field POD41\_MT from DM2\_1\_1min\_POD21

#### POD22\_MT\_Dialy

The same for POD22 using vPOD22\_MT\_DailyValues view

#### POD23\_MT\_Dialy

The same for POD23 using vPOD23\_MT\_DailyValues view

#### POD24\_MT\_Dialy

The same for POD24 using vPOD24\_MT\_DailyValues view

# 2- DM43 Operator Report

## List of Tables

MyDateValues, vDM4\_3\_1min\_Central, vPOD34\_MT\_DiallyValues, vPOD35\_MT\_DiallyValues, vPOD41\_MT\_DiallyValues, vPOD42\_MT\_DiallyValues, vPOD43\_MT\_DiallyValues, vPOD44\_MT\_DiallyValues

## List of KPIs

#### Net Meter

Net meter calculated based on CHP Meter = ([COGEN\_01]+[COGEN\_02])/60

COGEN\_01 = IF([COGEN1\_PWROUT\_ACT]>10,[COGEN1\_PWROUT\_ACT],0)

COGEN\_02 = IF([COGEN2\_PWROUT\_ACT]>10,[COGEN2\_PWROUT\_ACT],0)

COGEN1\_PWROUT\_ACT, COGEN2\_PWROUT\_ACT fields in vDM4\_3\_1min\_Central view.

vDM4\_3\_1min\_Central is an alias of table DM4\_3\_1min\_Central.

#### Engine 1 Capacity

Engine1 Capacity = Sum(vDM2\_1\_1min\_Central[COGEN\_01])/Sum(vDM2\_1\_1min\_Central[COGEN\_01Count])/800

COGEN\_01Count = IF([Cogen\_01]>0,1,0) (count of no zero values)

#### Engine 1 Runtime

Engine1 Runtime = SUM(vDM2\_1\_1min\_Central[COGEN\_01Count])/60

#### Biogas Engine

Field FT\_GC

#### Biogas Flare

Field FT\_GF

#### Total Biogas

Total Biogas = vDM2\_1\_1min\_Central[Biogas Engine]+vDM2\_1\_1min\_Central[Biogas Flare]

#### FeedStock Loading

FeedStock Loading = Sum( vPOD34\_MT\_DailyValues[POD34\_MT\_Daily])+Sum(vPOD35\_MT\_DailyValues[POD35\_MT\_Daily])+Sum(vPOD41\_MT\_DailyValues[POD41\_MT\_Daily])+Sum(vPOD42\_MT\_DailyValues[POD42\_MT\_Daily])+Sum(vPOD43\_MT\_DailyValues[POD43\_MT\_Daily])+Sum(vPOD44\_MT\_DailyValues[POD44\_MT\_Daily])

Variables explained bellow

#### POD34\_MT\_Daily

Maximum value from vPOD34\_MT\_DailyValues view

vPOD34\_MT\_DailyValues calculates the maximum value of field POD34\_MT from DM4\_3\_1min\_POD34

#### POD35\_MT\_Daily

Maximum value from vPOD35\_MT\_DailyValues view

vPOD35\_MT\_DailyValues calculates the maximum value of field POD35\_MT from DM4\_3\_1min\_POD35

#### POD41\_MT\_Daily

Maximum value from vPOD41\_MT\_DailyValues view

vPOD41\_MT\_DailyValues calculates the maximum value of field POD41\_MT from DM4\_3\_1min\_POD41

#### POD42\_MT\_Daily

Maximum value from vPOD42\_MT\_DailyValues view

vPOD42\_MT\_DailyValues calculates the maximum value of field POD42\_MT from DM4\_3\_1min\_POD42

#### POD43\_MT\_Daily

Maximum value from vPOD43\_MT\_DailyValues view

vPOD43\_MT\_DailyValues calculates the maximum value of field POD43\_MT from DM4\_3\_1min\_POD43

#### POD44\_MT\_Daily

Maximum value from vPOD44\_MT\_DailyValues view

vPOD44\_MT\_DailyValues calculates the maximum value of field POD44\_MT from DM4\_3\_1min\_POD44

# 3-FGO Operator Report

## List of Tables

## List of KPIs

# 4-LMD Operator Report

## List of Tables

## List of KPIs

# 5 – OLD Operator Report

## List of Tables

## List of KPIs

# 6 – DM21 Manager Report

## List of Tables

## List of KPIs

# 7 – DM43 Manager Report

## List of Tables

## List of KPIs

# 8 Raw Data Combined

## List of Tables

DM21\_ManualData,DM43\_ManualData

## List of KPIs

None. This report list all manual data table fields

# 9 Missing Files

## List of Tables

VDbData

## List of KPIs

vDbData view shows the missing data based on Index Table.

# 10. DM Daily POD Analysis

## List of Tables

## List of KPIs

# 11. DM Analysis Per POD

## List of Tables

## List of KPIs