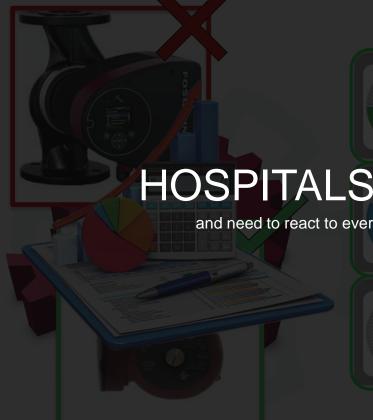


Schneider Electric Global

- French company founded in 1836
- HQ in Paris
- 144 000 employees across 100+ countries
- 24,7 billion Euro turnover
- 5 % of turnover invested in research and development





Hospital lifecycle cost

75 % of a hospitals lifecycle cost is spent on Opex. Although only about 10 % of this percentage accounts for operational costs, the amount is still huge

HOSPITALS ARE DYNAMIC

and need to react to ever-changing real world requirements



Energy waste

20 % of a hospitals energy consumption is wasted due to badly commissioned systems. This problem accelerates throughout the hospitals lifetime





Finance

- Investments, ROI
- Waste of energy
- Capex investments affects Opex



Infrastructure

- Accelerating maintenance costs
- Energy efficiency



Patients and hospital staff

- Technology (apps etc.)



Resources

- Descending access to qualified technical staff
- Increased workflow

Schneider Electric Digital Energy – Added value to hospitals

Maximize Building Efficiency



Optimize
Comfort & employee productivity



Increase Technical visibility





Analytics



Energy

Continuously system diagnostics uncovers your hospitals energy waste in prioritized order. By implementing equipment variables such as fan & pump power while simultaneously feeding the system with electricity or gas costs, Analytics will be able to visualize unnecessary spending's - empowering you to make smart and environmental friendly choices!



Comfort

Optimal indoor comfort contributes Analytt recovery. Moreover, top indoor quarter produce more while at the same and industry to produce more while at the same and industry to produce more while at the same and industry to produce more while at the same and industry to produce more while at the same and industry to produce the patient notices any discomfort!

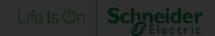


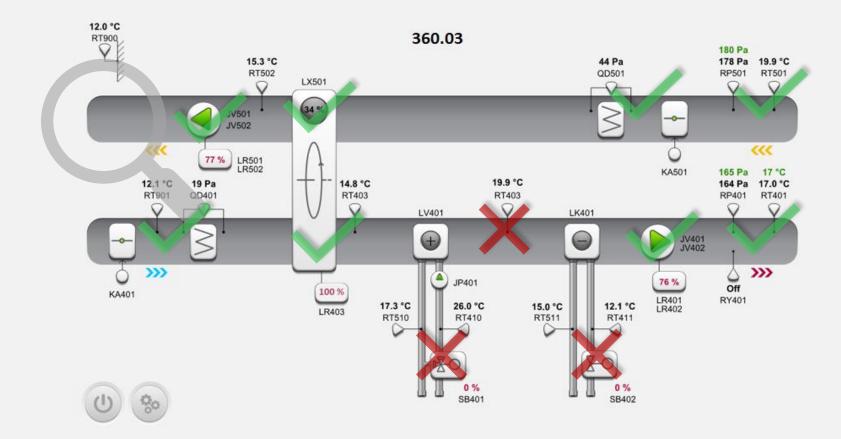
Maintenance

By ensuring optimal levels of maintenance in hospitals we'll prevent property value from falling over time. Even more importantly; a well maintained hospital is far more secure and reliable. By enabling constant analytics of all technical systems, Hospital analytics makes sure to give you the insight needed in order to keep your systems up and running!









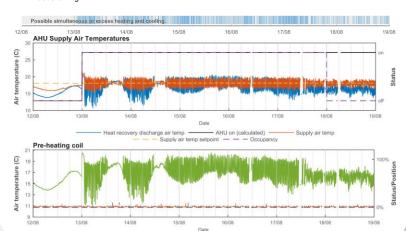


360.03: POSSIBLE SIMULTANEOUS OR EXCESS HEATING AND COOLING

- There was a temperature rise over the coils while heating was off for 30.5 hours over the diagnostic period
- There was a temperature drop over the coils while cooling was off for 41.8 hours over the diagnostic period
- This may have wasted around kr 898 over 7 day(s)

Possible Causes:

- Valve is not seating properly and is leaking
- Stuck or broken valve
- Temperature sensor error or sensor installation error is causing improper control of the valves or other coils
- PID needs tuning

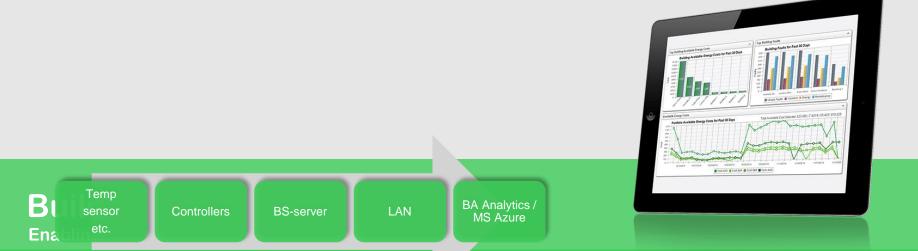


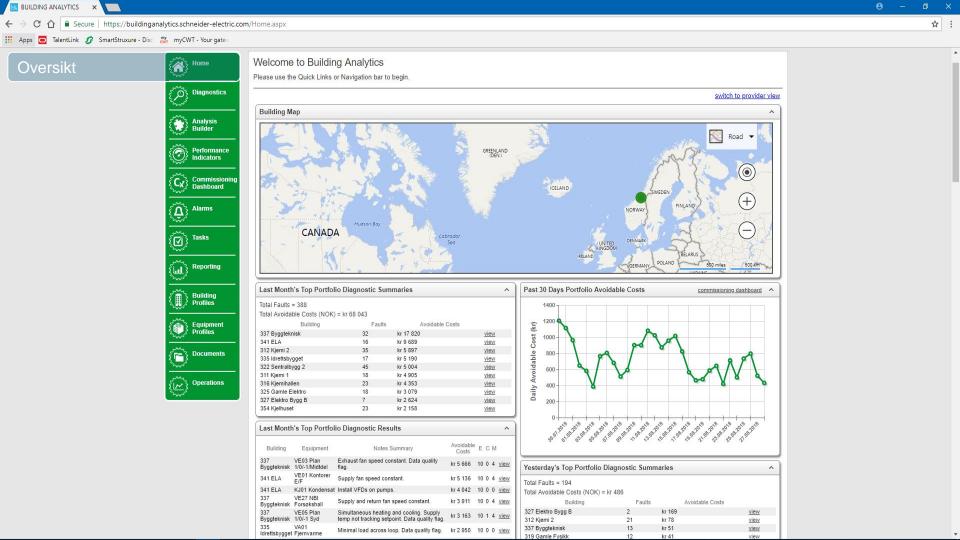
Heat wheel discharge air temp - - - Valve position - - - Valve feedback

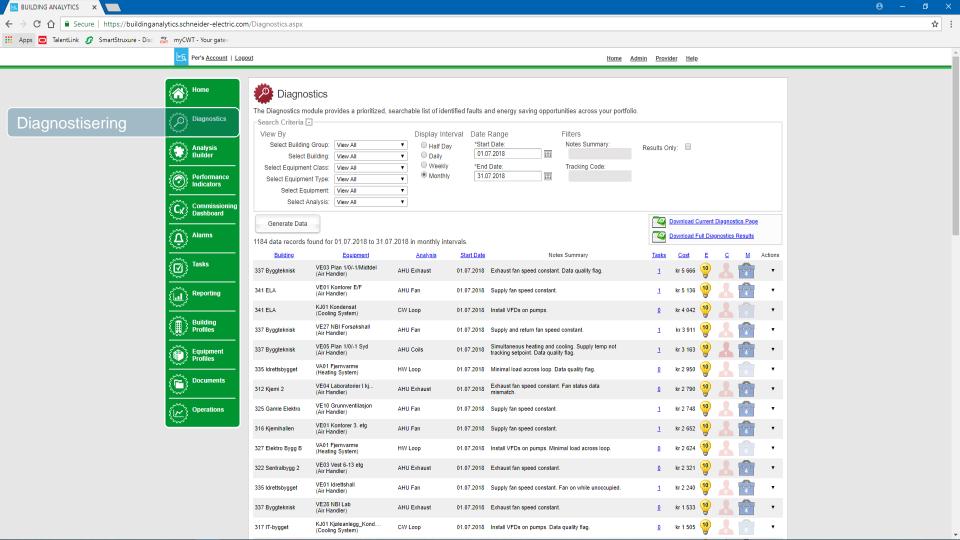
<u>Equipment</u>	Analysis	Start Date	Notes Summary	<u>Tasks</u>	Cost	<u>E</u>	<u>C</u>	<u>M</u>
Fløy 2 320.01 Varmesen Heating System)	HW Loop	05.08.2018	Minimal load across loop.	1		10		
Fløy 2 320.01 Varmesen Heating System)	HW Loop	27.05.2018	Minimal load across loop.	1		10	8	
Fløy 2 320.01 Varmesen Heating System)	HW Loop	03.06.2018	Minimal load across loop.	1	kr 6 797	10		
Fløy 2 320.01 Varmesen Heating System)	HW Loop	29.07.2018	Minimal load across loop.	1	kr 5 811	10	8	
Fløy 2 320.01 Varmesen Heating System)	HW Loop	10.06.2018	Minimal load across loop.	1	kr 5 647	10		
Fløy 2 320.01 Varmesen Heating System)	HW Loop	22.07.2018	Minimal load across loop.	1	kr 5 342	10	8	
Fløy 2 320.01 Varmesen Heating System)	HW Loop	06.05.2018	Minimal load across loop.	1	kr 4 338	10		
Fløy 2 320.01 Varmesen Heating System)	HW Loop	20.05.2018	Minimal load across loop.	1	kr 4 067	10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	05.08.2018	Minimal load across loop.	1		10		
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	12.08.2018	Minimal load across loop.	1	kr 3 317	10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	10.06.2018	Minimal load across loop.	1		10		
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	29.04.2018	Minimal load across loop.	1	kr 3 224	10	8	r co
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	24.06.2018	Minimal load across loop.	1	kr 3 204	10		
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	01.07.2018	Minimal load across loop.	1	kr 3 197	10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	17.06.2018	Minimal load across loop.	1	kr 3 109	10		
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	03.06.2018	Minimal load across loop.	1	kr 3 093	10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	06.05.2018	Minimal load across loop.	1	kr 2 785	10		
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	13.05.2018	Minimal load across loop.	1		10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	27.05.2018	Minimal load across loop.	1	kr 2 498	10		
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	29.07.2018	Minimal load across loop.	1	kr 2 390	10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	20.05.2018	Minimal load across loop.	1	kr 2 270	10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	22.07.2018	Minimal load across loop.	1	kr 2 047	10	8	
Fløy 2 370.01 Hovedkjø Cooling System)	CHW Loop	19.08.2018	Minimal load across loop. Data quality flag.	1	kr 1 462	10	8	
Fløy 3 360.03 Ventilas Air Handler)	AHU Coils	10.06.2018	Possible simultaneous or excess heating and cooling.	1	kr 1 234	10	8	4
Fløy 3 360.03 Ventilas Air Handler)	AHU Coils	01.07.2018	Possible simultaneous or excess heating and cooling.	1		10	8	14
Fløy 3 360.03 Ventilas Air Handler)	AHU Coils	17.06.2018	Possible simultaneous or excess heating and cooling.	1	kr 980	10	8	1
Fløy 3 360.03 Ventilas Air Handler)	AHU Coils	24.06.2018	Possible simultaneous or excess heating and cooling.	1	kr 923	10		1
Fløy 3 360.03 Ventilas Air Handler)	AHU Coils	12.08.2018	Possible simultaneous or excess heating and cooling.	1	kr 898	10	2	6











Building Advisor Analytics - Benefits

* Calculation based on an average of real-time customer data over a 12 to 18 month period in 900+ buildings and 8 countries

