Facilities Management



Eliminate Down-time and Improve Quality

Adroit Technologies

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Adroit Solutions

Adroit Technologies concerns itself mainly with R&D, Production, Sales & Marketing, Training and Support of software products for Automation, SCADA, MIS and MES solutions. In addition, Adroit Technologies has a professional services arm, known as Adroit Technologies Technical Services that consults in and develops customised industrial IT, MIS and MES solutions for customers.

The **Facilities Management Sector** is a vast and complex one and the Adroit SCADA is ideally suited to assist in the efficient monitoring and control of even the most complicated production plant.

The rigid and quality driven nature of this industry is ideally suited to the Adroit SCADA/HMI product. The time tested and proven reliability of the product sees Adroit being used by large producers to safely run these valuable and strategic assets.

The Adroit architecture and openness offers companies a unique capability of not only traditional SCADA/HMI functionality but the ability to integrate all aspects of their operations. By adopting a more holistic approach to Operations Management significant savings and operational efficiencies can be realised.

In this sector, Adroit is uniquely placed to ensure a superior quality of supply in all aspects of the operations and management of these facilities.

Adroit SCADA Capabilities and Benefits:-

- Process Visualisation
- Process Events and Alarming Management
- Quality Management
- Historical Data Logging and Trending
- Fully Object orientated
- Process Improvement / Built in Auditing functionality
- Reporting and Analysis
- Integration into Business Applications

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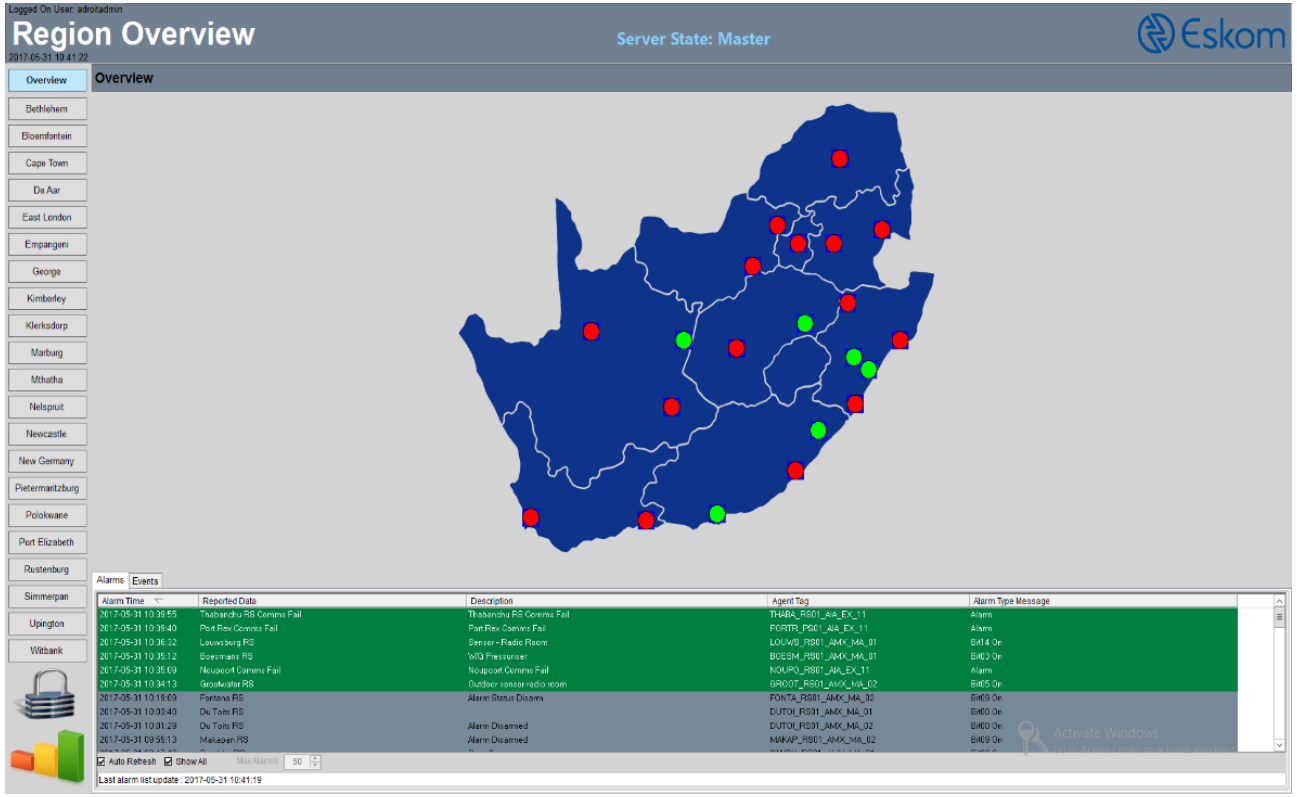
Target Areas	Challenges	Solutions
• BMS • Data Centres • Networks • HVAC • Environmental	• Data Center • Energy Efficiency • Predictive Maint. • Remote Monitoring • Reporting	• SCADA • PLC • HMI • LVS • VSD



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References – Facilities Management

- ✓ City of CPT Convention Centre
- ✓ SANRAL/ETC
- ✓ Scenivision
- ✓ Eskom – Telecommunications
- ✓ Multichoice
- ✓ Sentech
- ✓ MTN
- ✓ DOD
- ✓ And more ……



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Typical Building Types and Facilities

Typical Site Types
Hi Site (HS)
Switch (S)
Datacentre (DC)
Earth Stations (ES)
Office Building (OB)

Typical Site Equipment
Power
Network
Access Control
Cameras
FP
HVAC
Environmental (not HS)

Power
Reticulation
DC – Battery and Rectifier
AC – Battery and Rectifier
UPS
Generators
Fuel
Green (Solar/Wind)
MLV

Network
Transmission – Radio & Fibre
Core – Network (NSS/BSS/VAS)
Billing
Spectrum Analysers

HVAC
Free cooling – Dry cooling/Kyoto
Chillers
Water Circulation
CRAC
AHU
Leak Detection
Air Circulation
DX

FP
Detection and Suppression

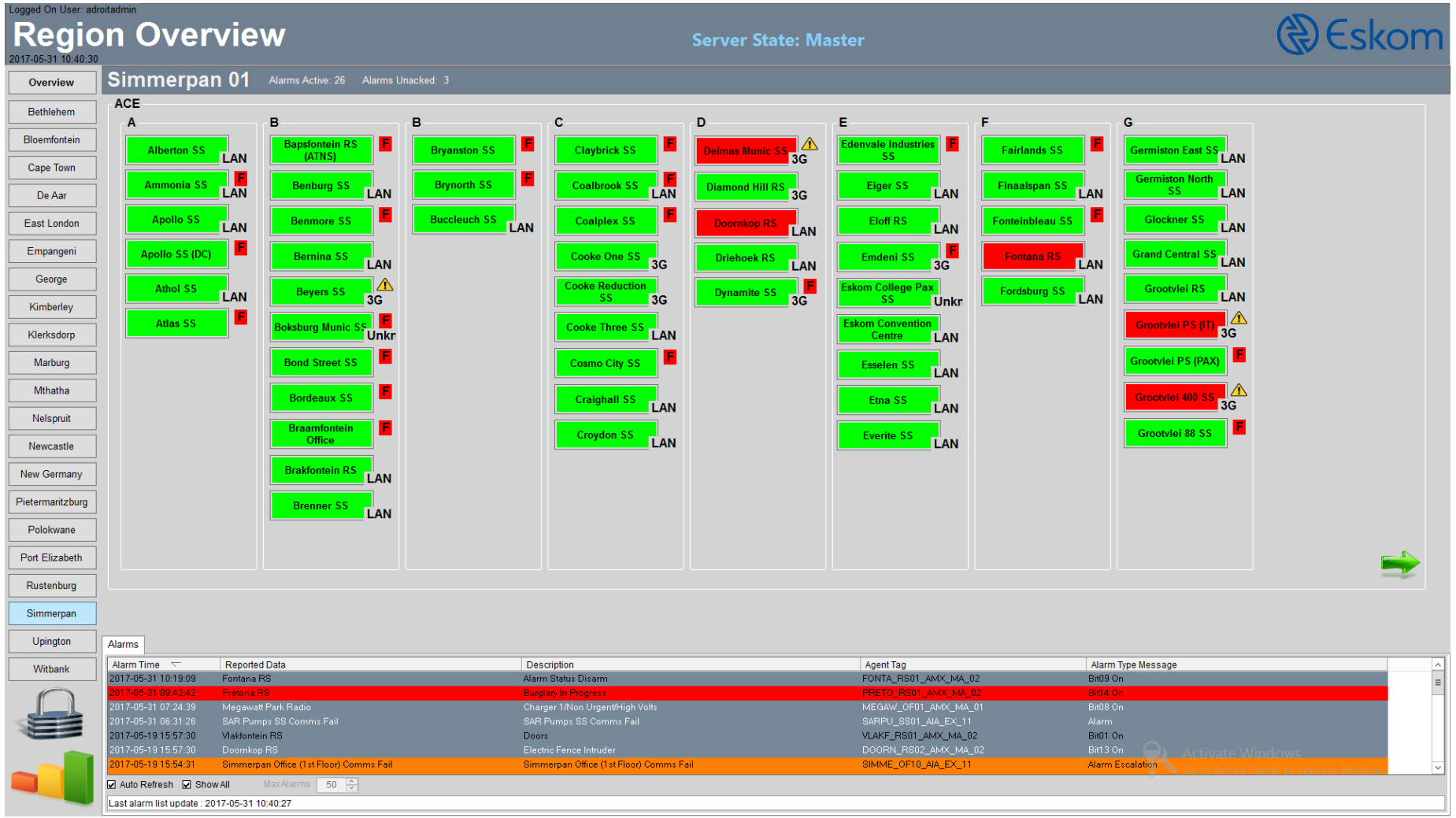
ENV
Temp/Humidity/Airflow
Lights

Other Systems
Asset tracking
Maintenance Management Systems

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ESKOM - Overall Network Status, South Africa

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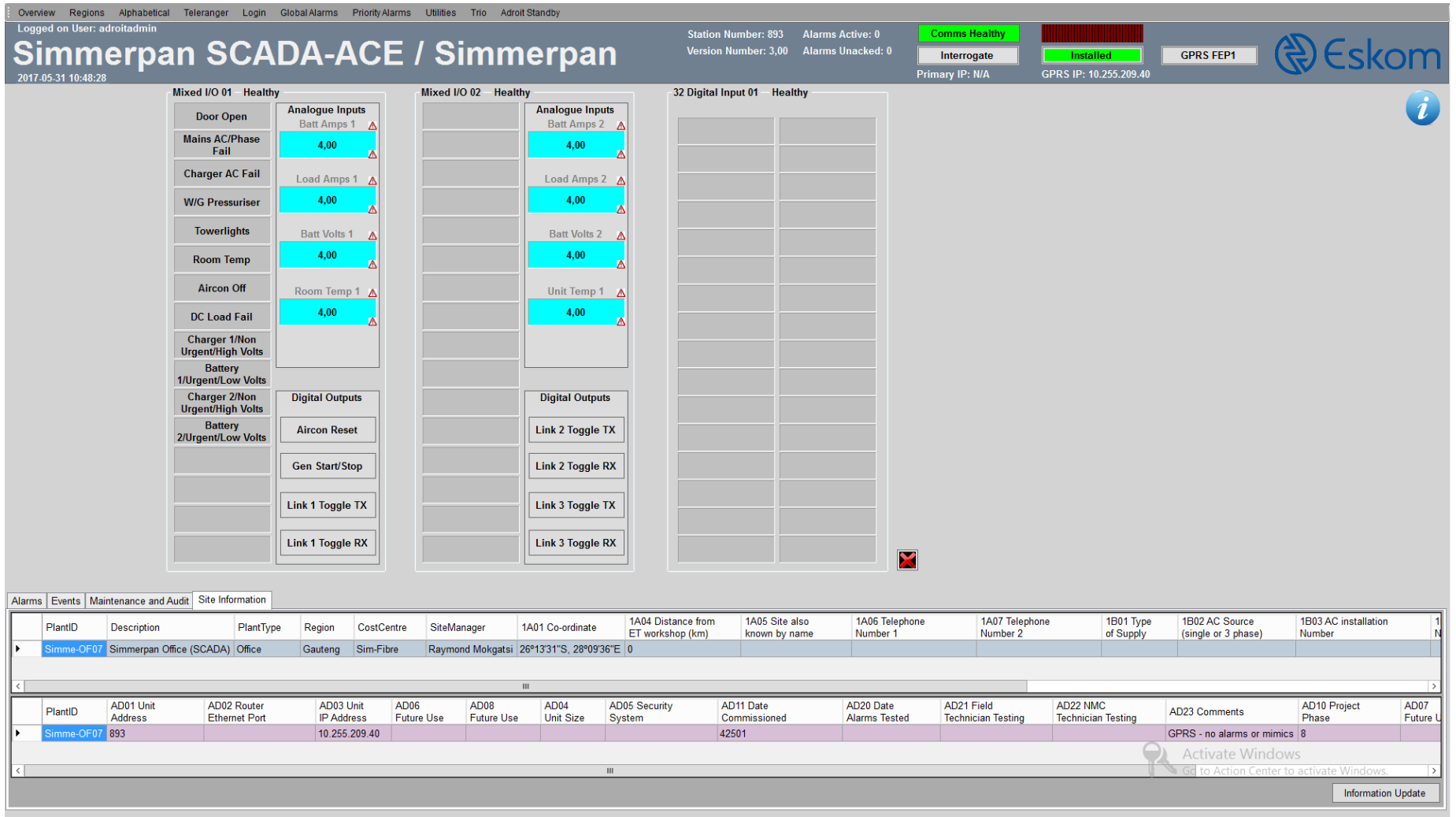


Activate Windows
Go to Action Center to activate Windows.

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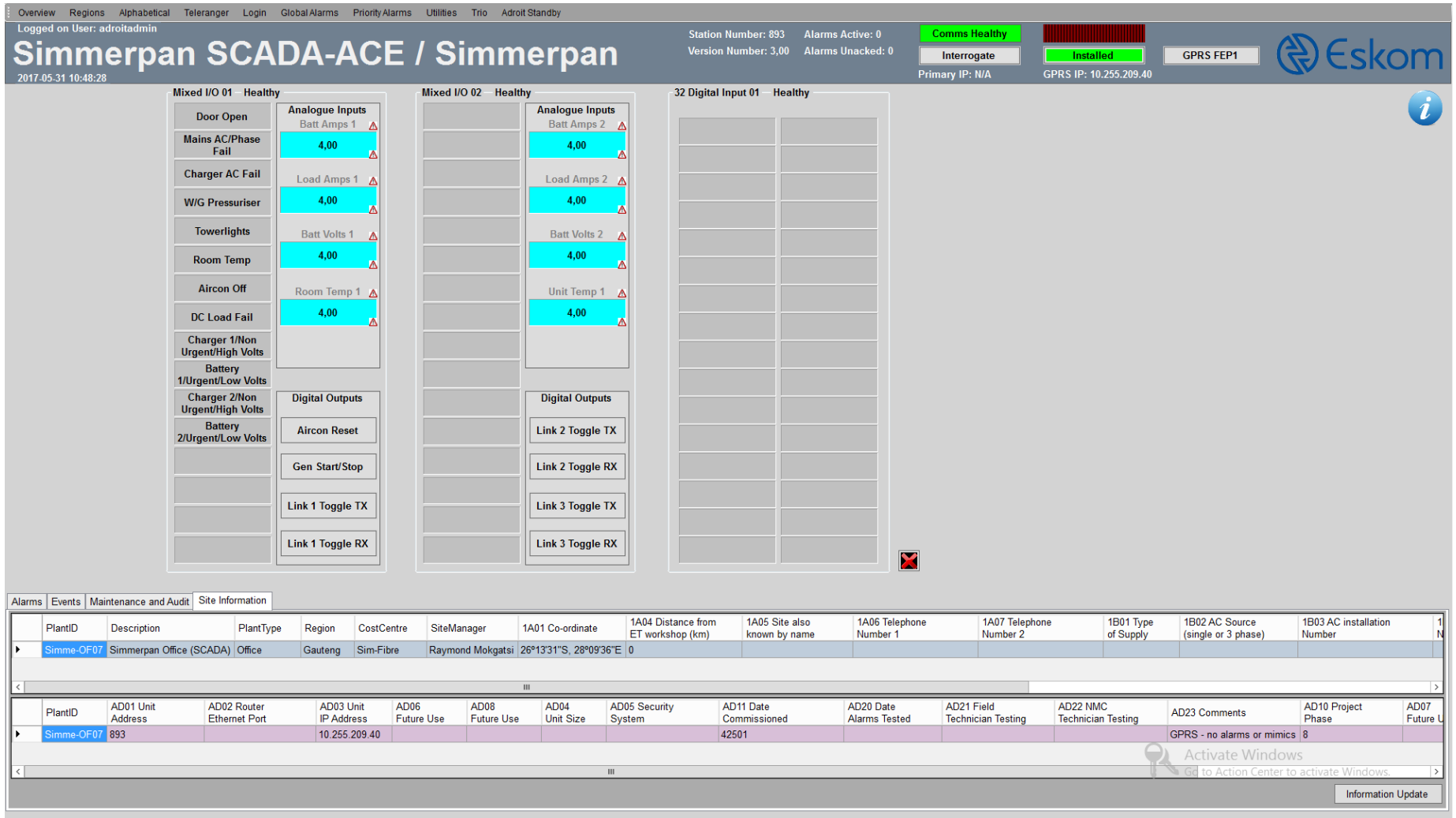
ESKOM - Overall Network Status, South Africa

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ESKOM – Station Status, South Africa

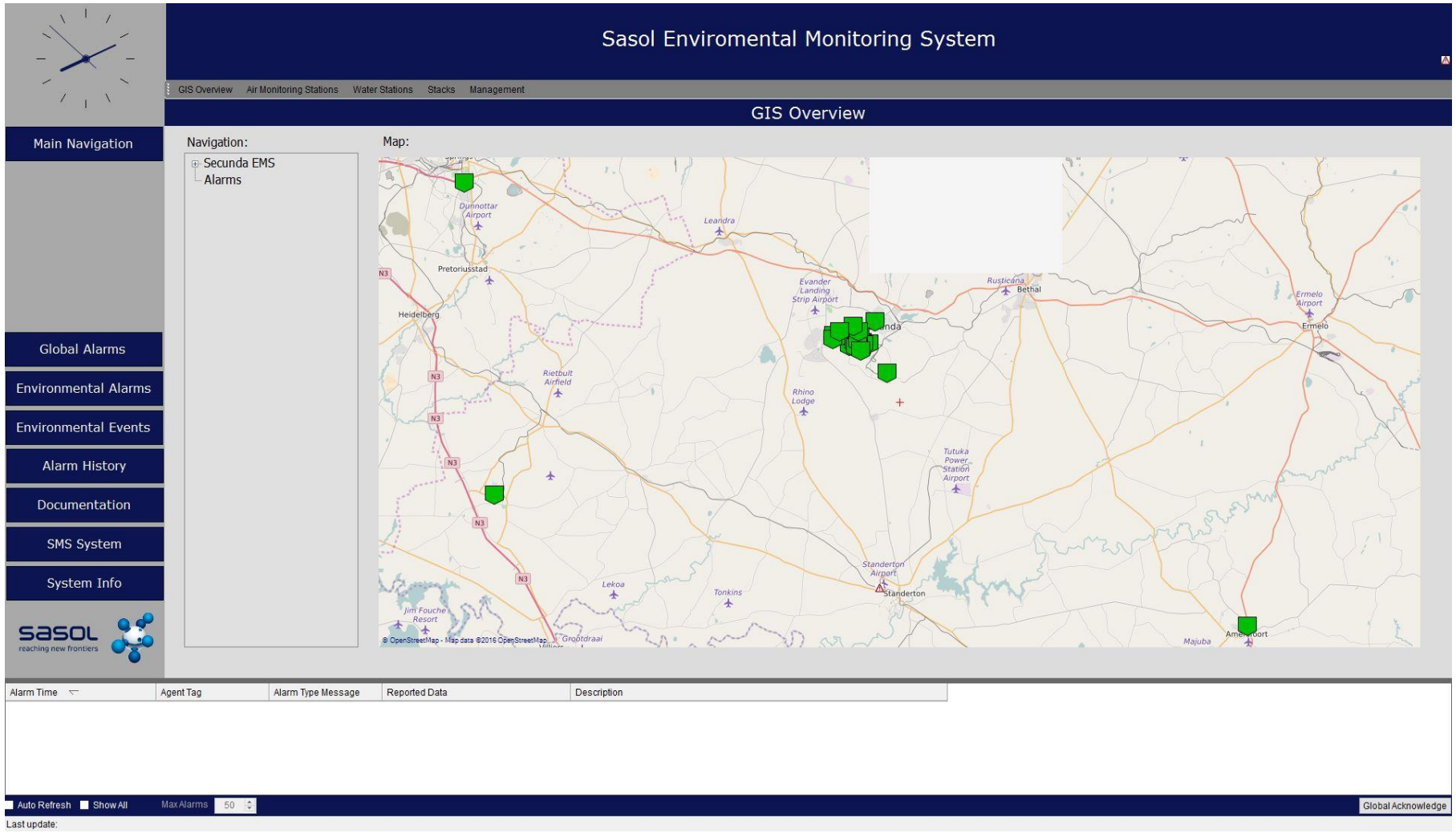


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Sasol Environmental Monitoring, South Africa

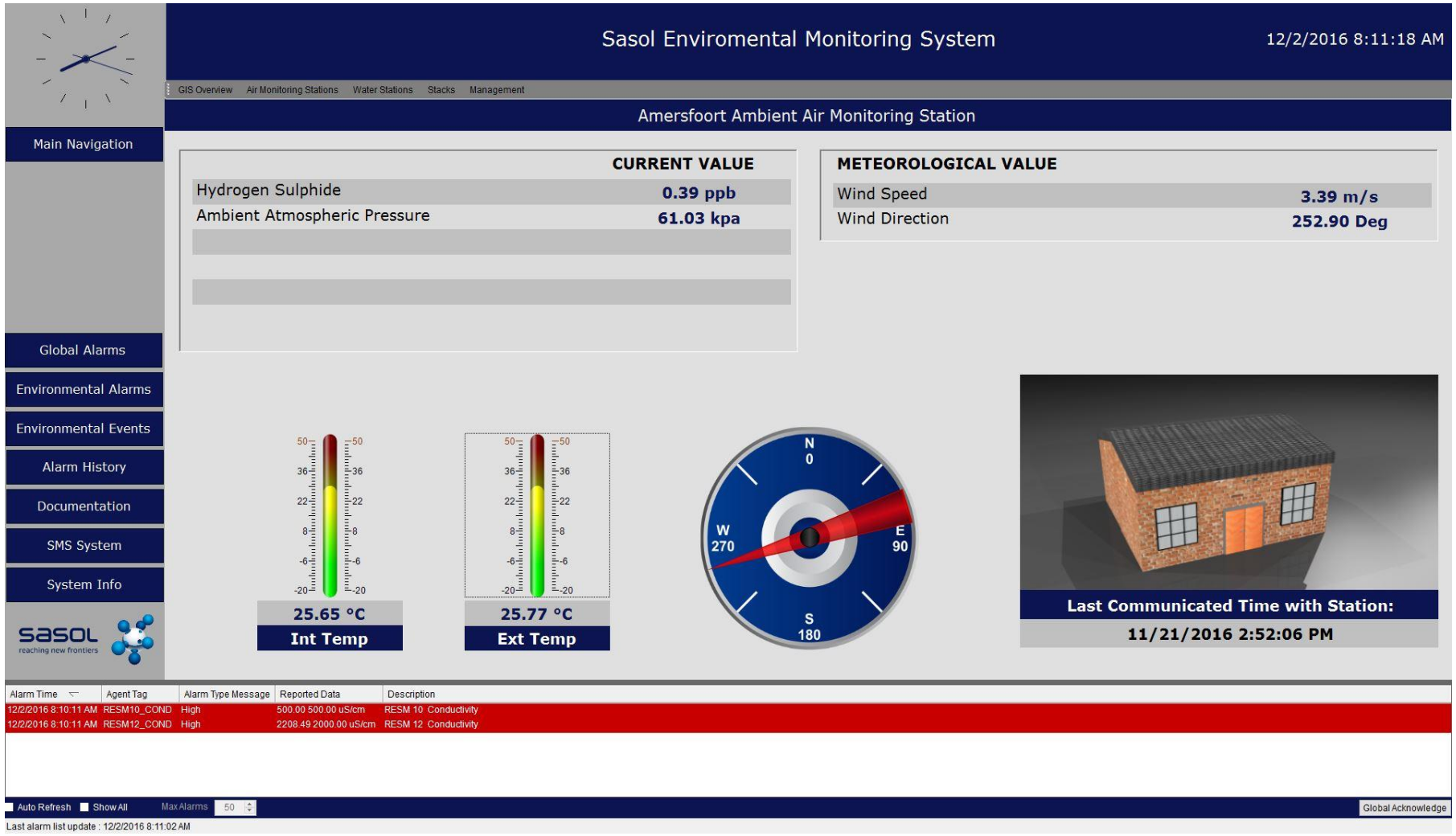
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Sasol Environmental Monitoring, South Africa

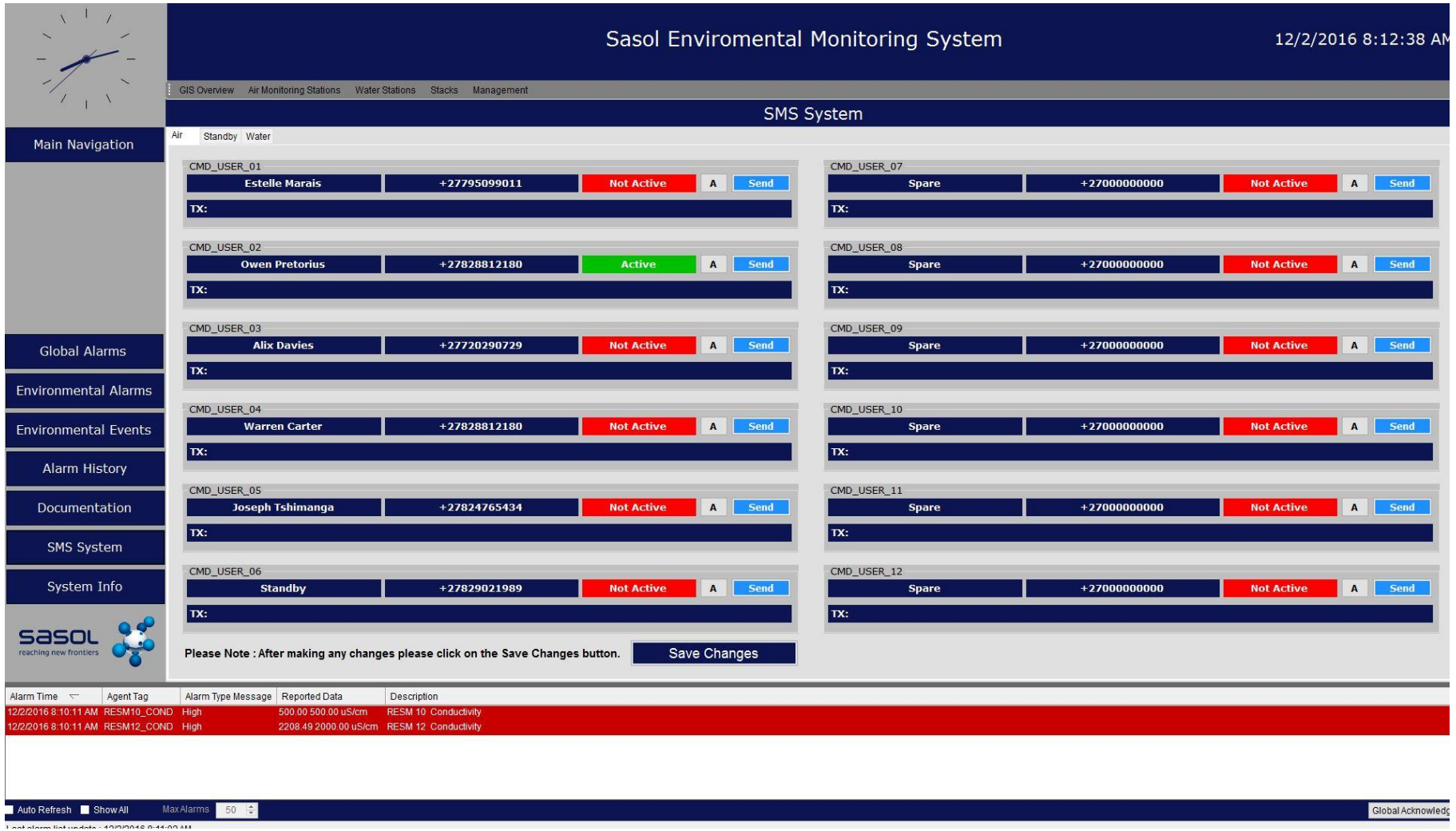
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PRASA Durban Rail Network, South Africa



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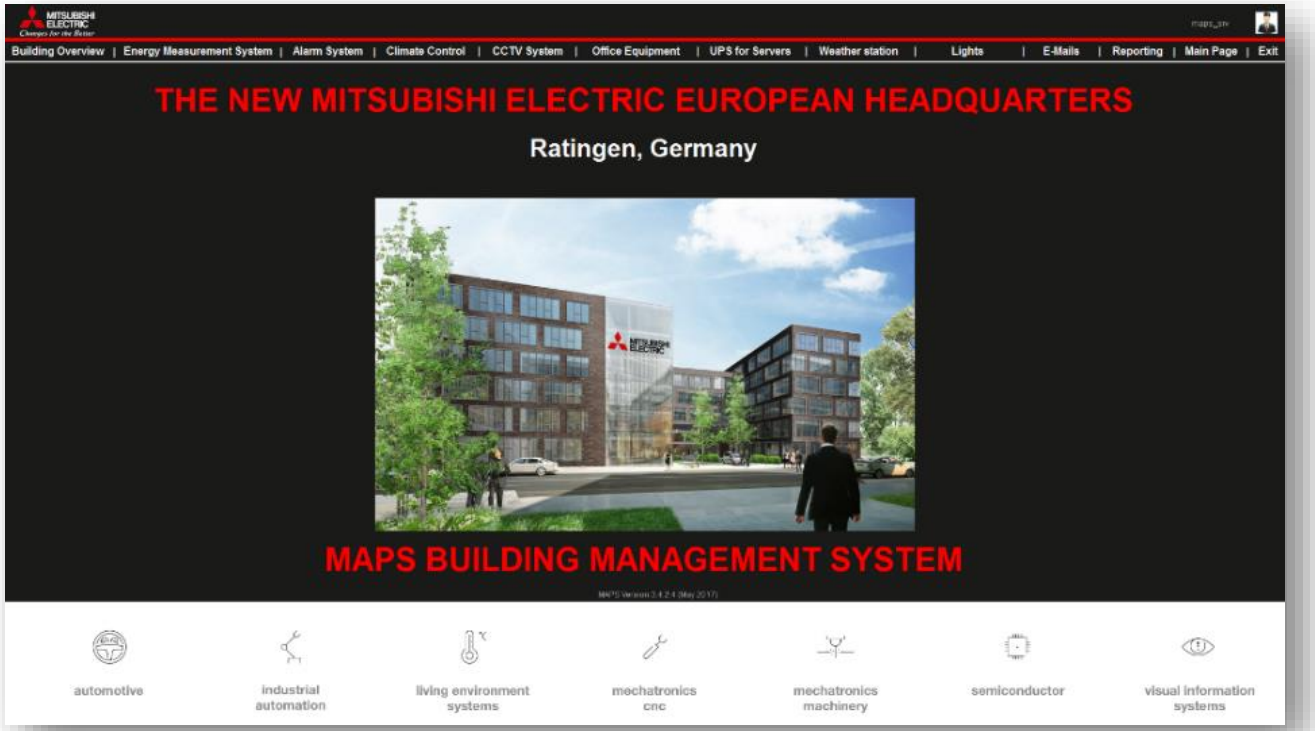
Mitsubishi Electric HQ in Ratingen, Germany



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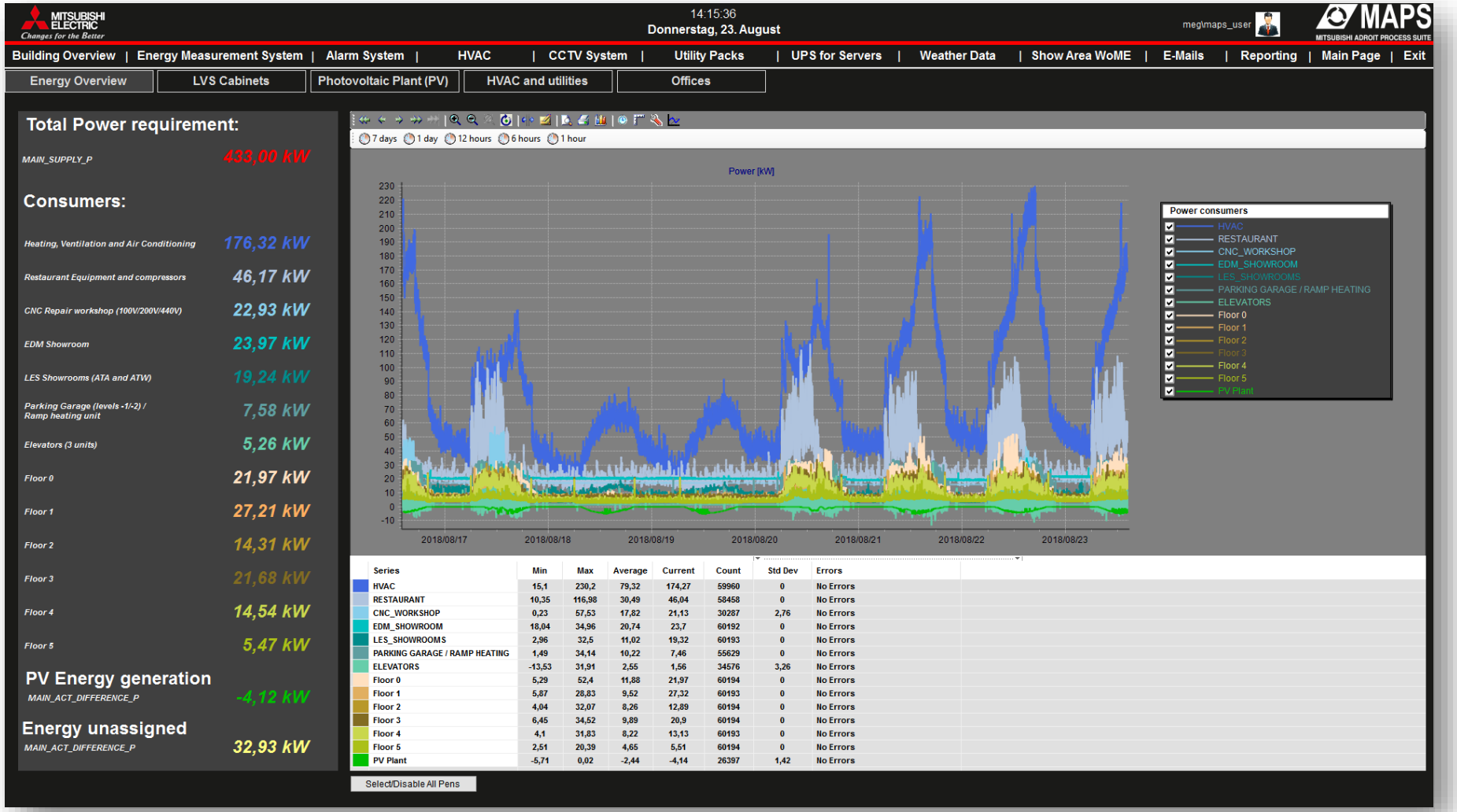
Mitsubishi Electric HQ in Ratingen, Germany

- **Building Management System** – In Dec 2015, Mitsubishi Electric opened the new European HQ in Ratingen.
- **Requirements** – Security, Energy, Equipment, Climate Control and CCTV
- **Applications** – HVAC, fire detection and alarm, lighting control, security, smart elevators etc.
- **Products Installed** – Q-Series PLCs, FX PLCs and MAPS are used as a central monitoring system



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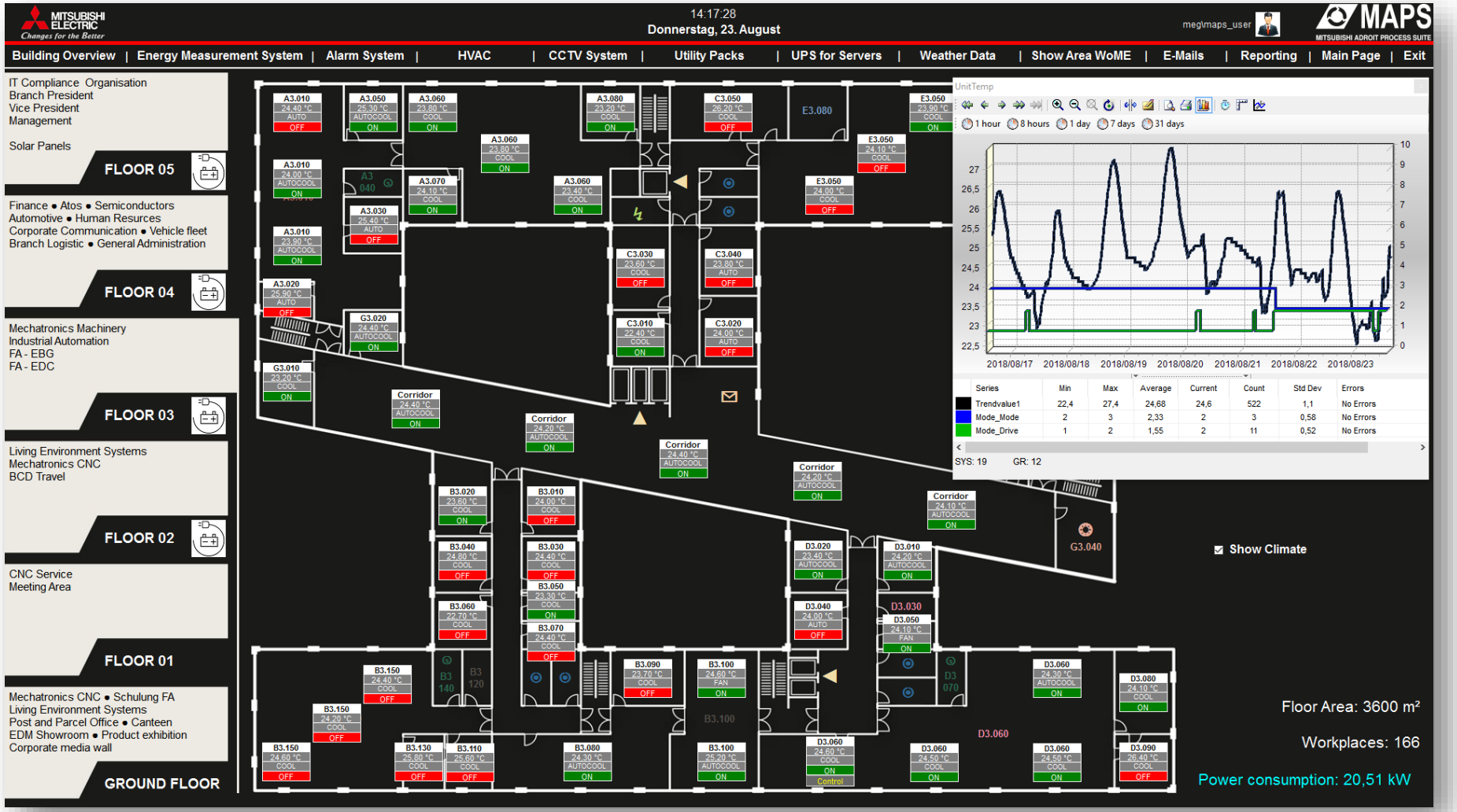
Mitsubishi Electric HQ in Ratingen, Germany



Series	Min	Max	Average	Current	Count	Std Dev	Errors
HVAC	15,1	230,2	79,32	174,27	59960	0	No Errors
RESTAURANT	10,35	116,98	30,49	46,04	58458	0	No Errors
CNC_WORKSHOP	0,23	57,53	17,82	21,13	30287	2,76	No Errors
EDM_SHOWROOM	18,04	34,96	20,74	23,7	60192	0	No Errors
LES_SHOWROOMS	2,96	32,5	11,02	19,32	60193	0	No Errors
PARKING GARAGE / RAMP HEATING	1,49	34,14	10,22	7,46	55629	0	No Errors
ELEVATORS	-13,53	31,91	2,55	1,56	34576	3,26	No Errors
Floor 0	5,29	52,4	11,88	21,97	60194	0	No Errors
Floor 1	5,87	28,83	9,52	27,32	60193	0	No Errors
Floor 2	4,04	32,07	8,26	12,89	60194	0	No Errors
Floor 3	6,45	34,52	9,89	20,9	60194	0	No Errors
Floor 4	4,1	31,83	8,22	13,13	60193	0	No Errors
Floor 5	2,51	20,39	4,65	5,51	60194	0	No Errors
PV Plant	-5,71	0,02	-2,44	-4,14	26397	1,42	No Errors

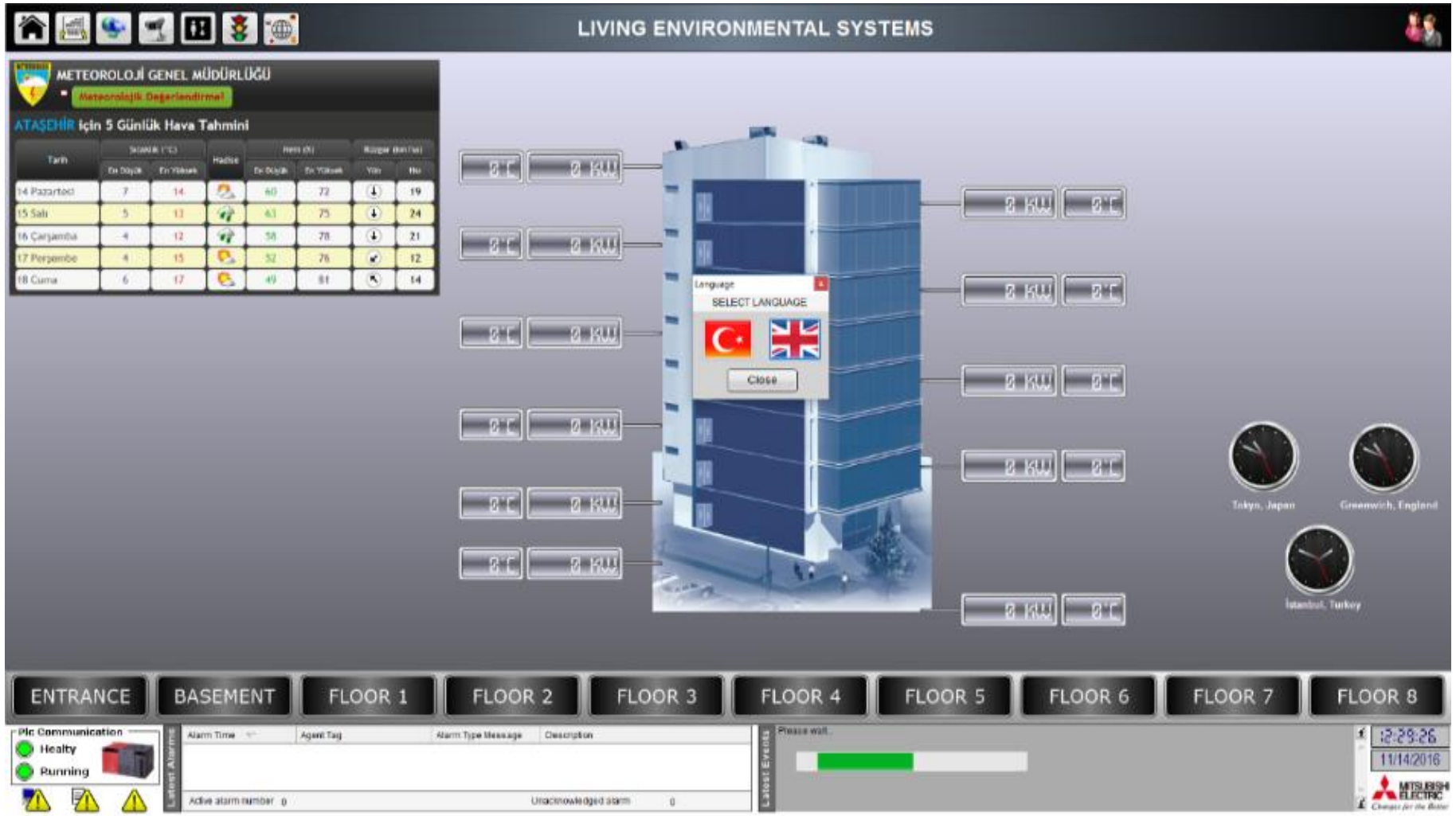
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Mitsubishi Electric HQ in Ratingen, Germany



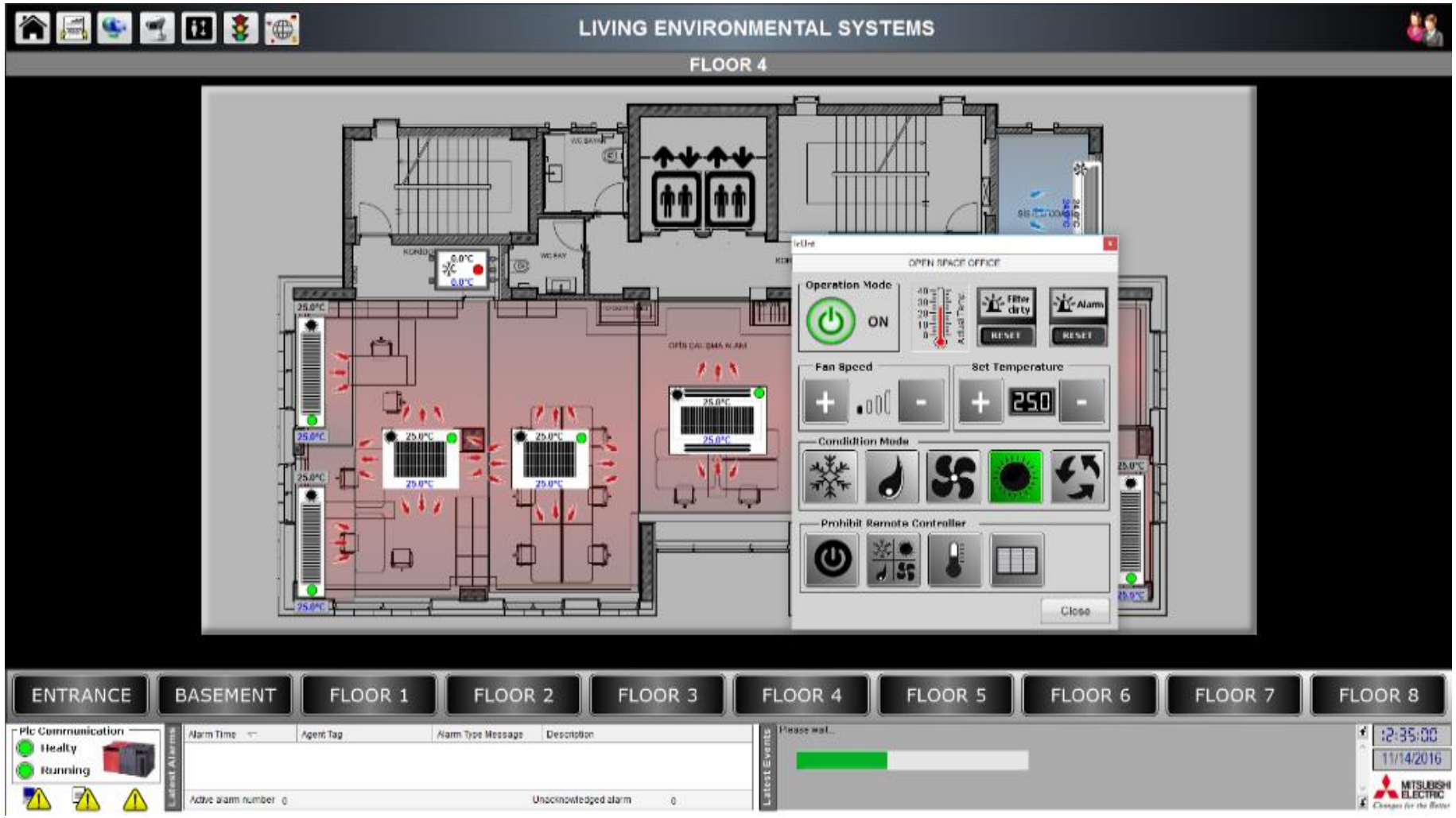
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Building Management System, Turkey



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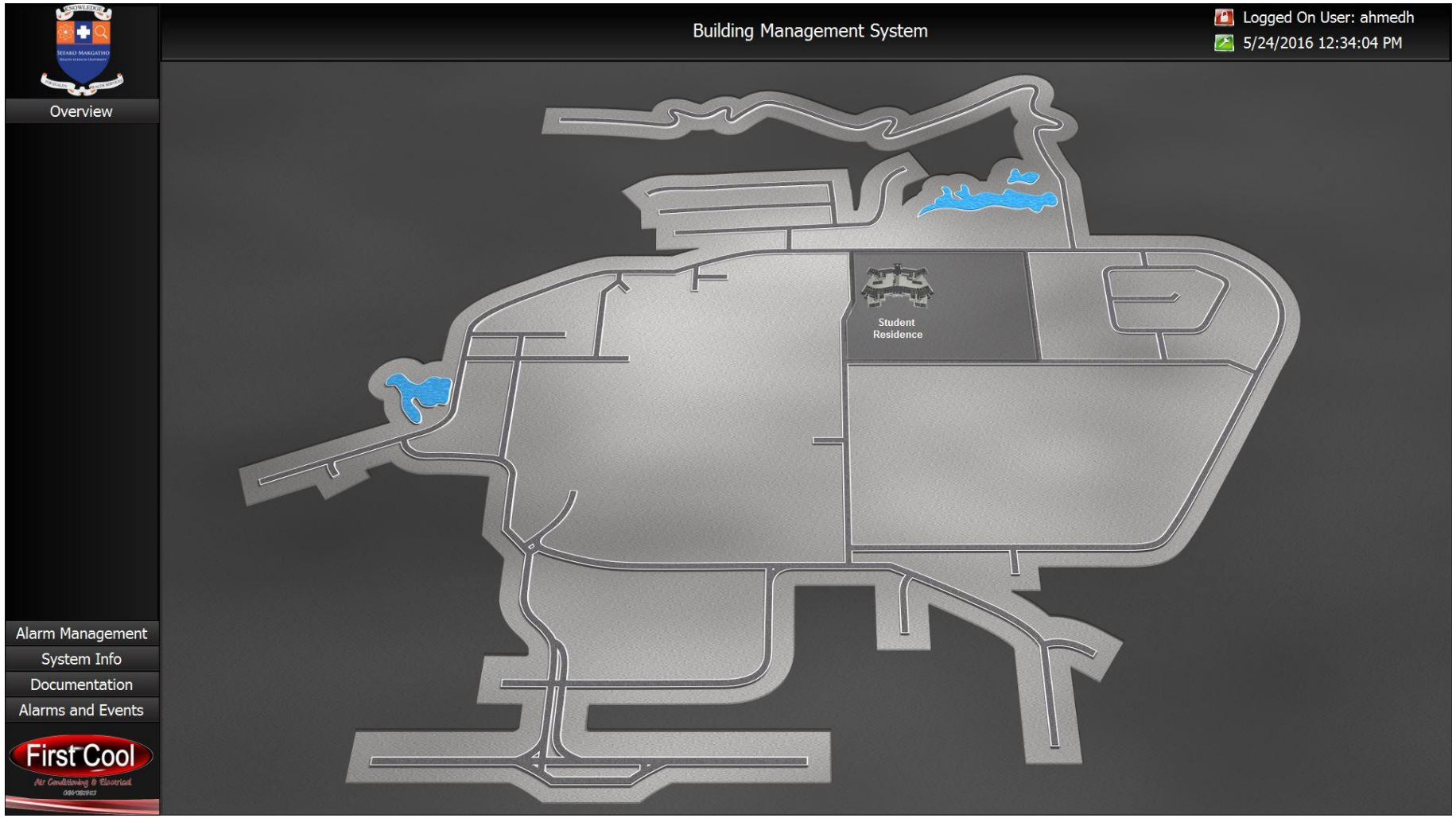
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Building Management System, Turkey



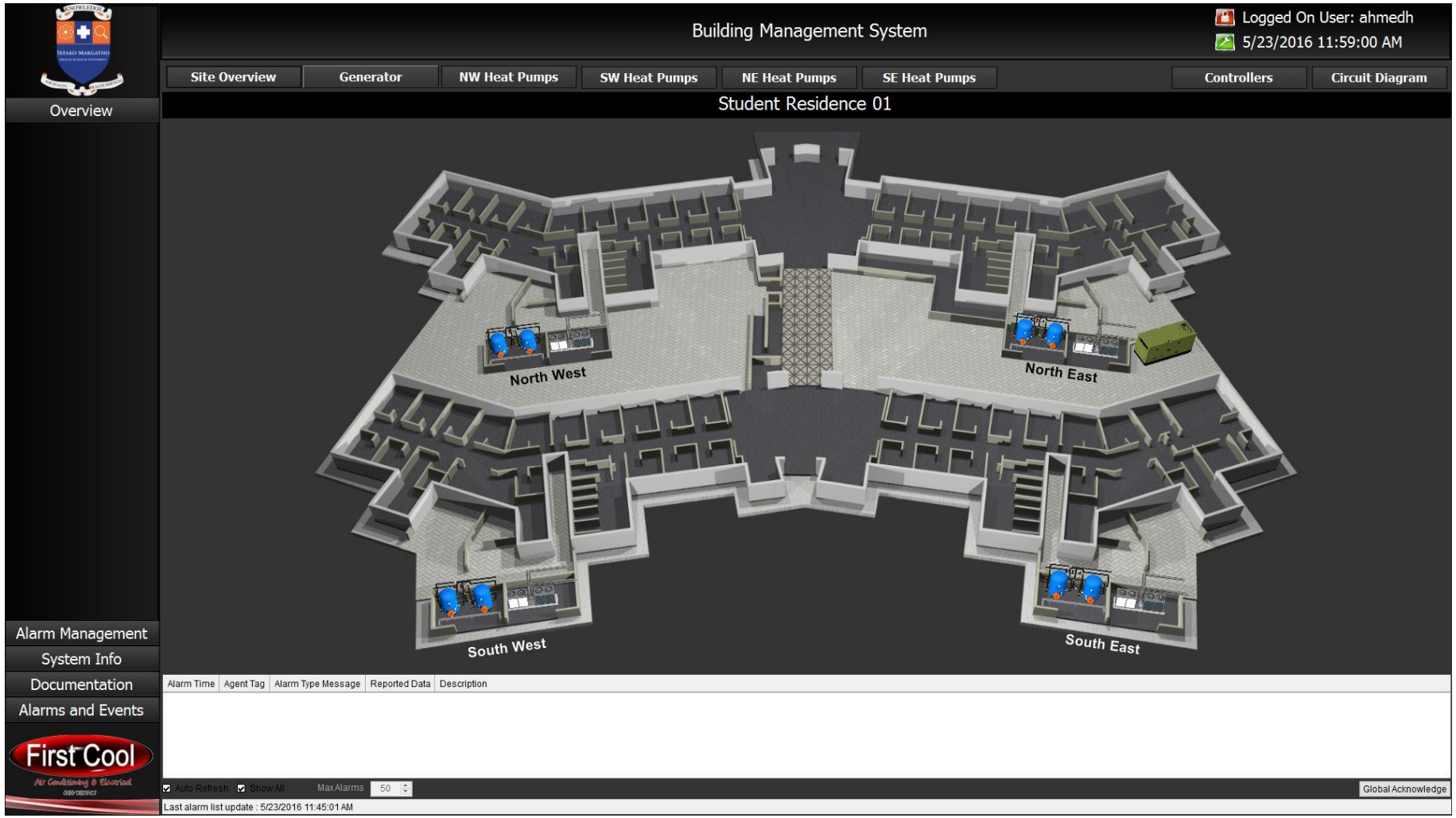
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University Building Management System, S.A.



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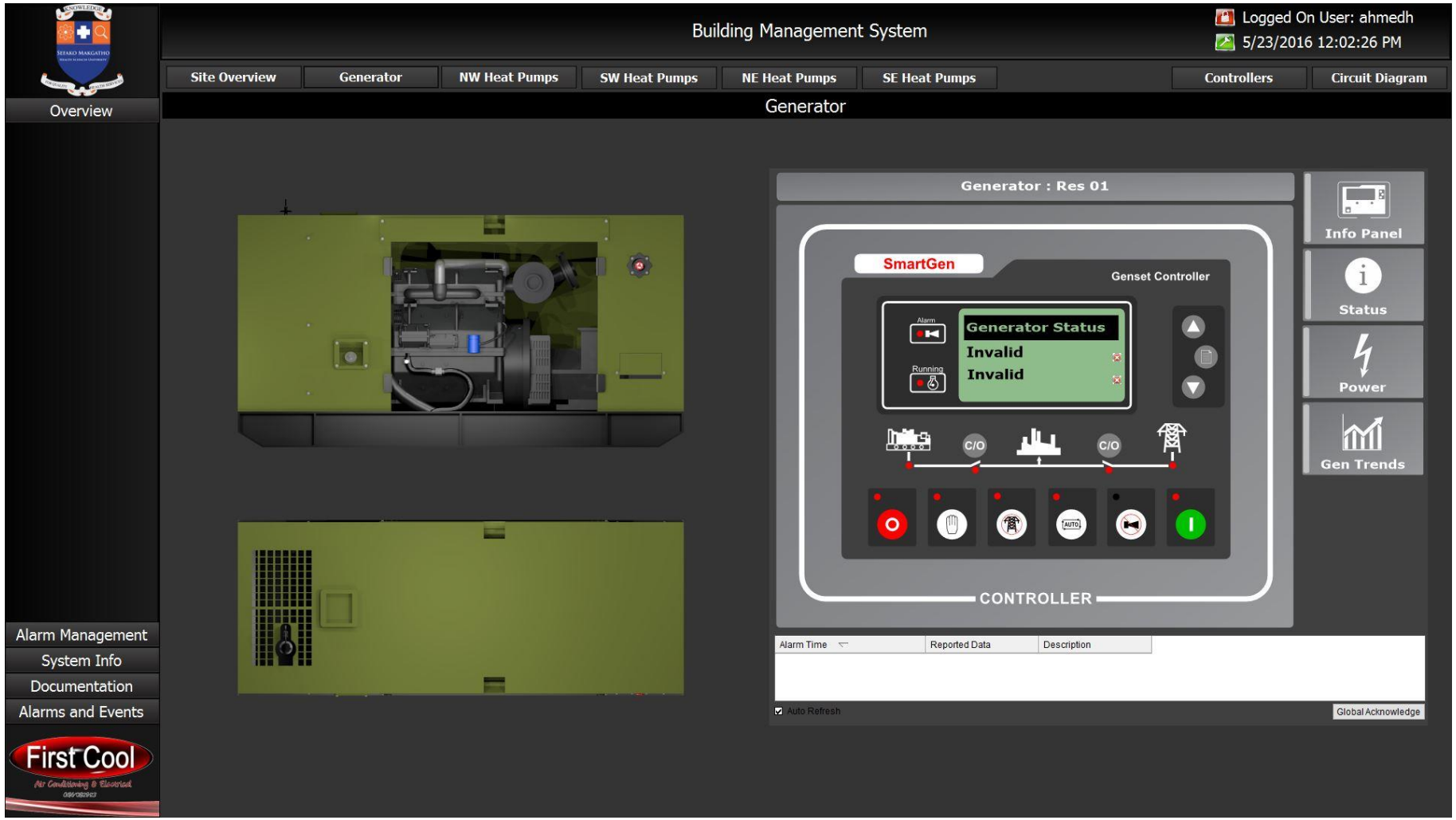
University Building Management System, S.A.



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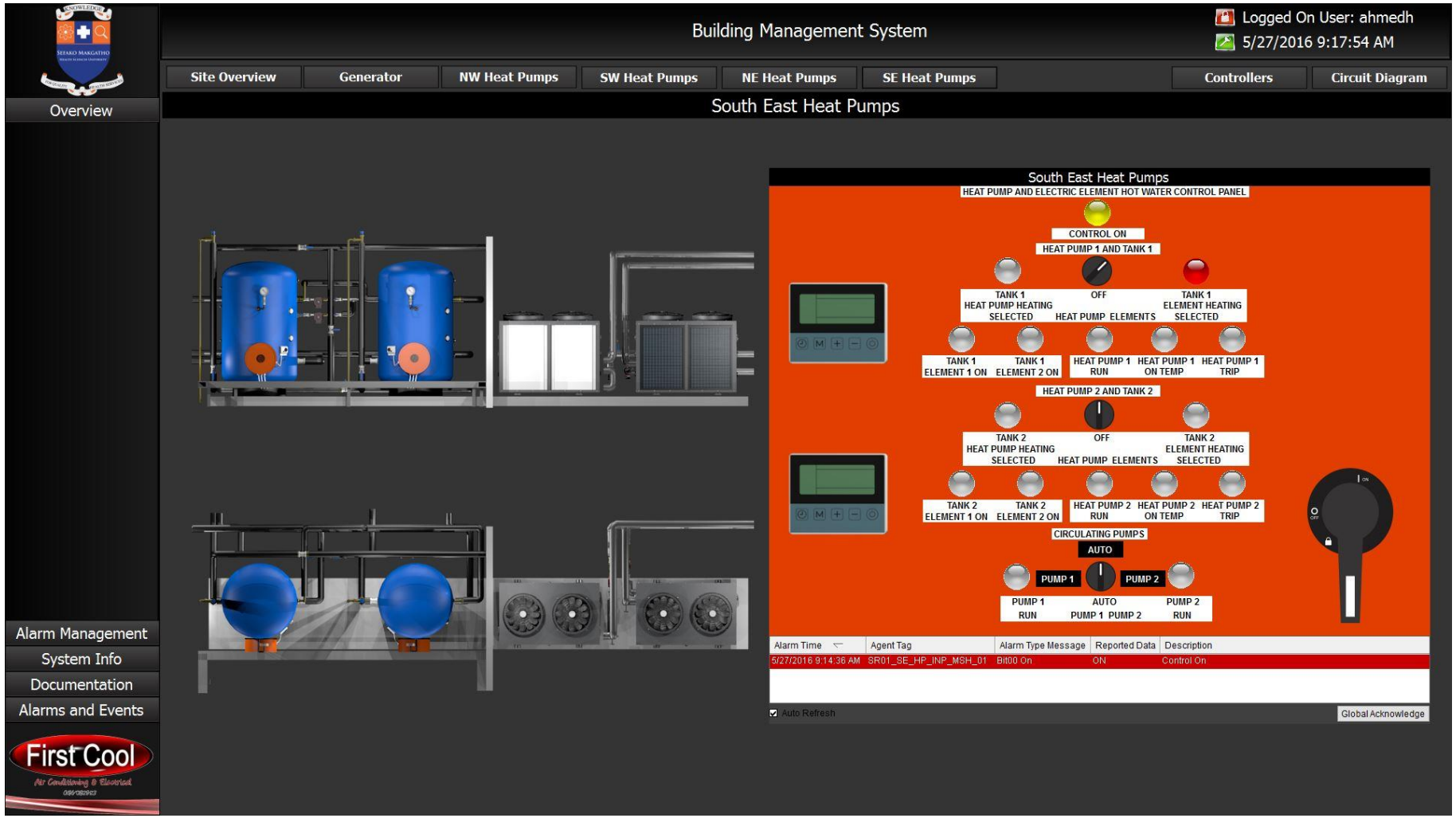
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