

Benefitting from BMS IQVision Implementation

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BEMS in South Ayrshire

- Trend Supervisor 963 used on 25 core sites through to 2019
- IQV introduced in June 2022 – Covid response
- Current access level - 130 sites
- Drivers - Net zero targets & energy costs
- Capital spend £350k

Current Management



Daily checks



Monitor connections



Holiday shutdowns



Remote heating changes & fault resolution



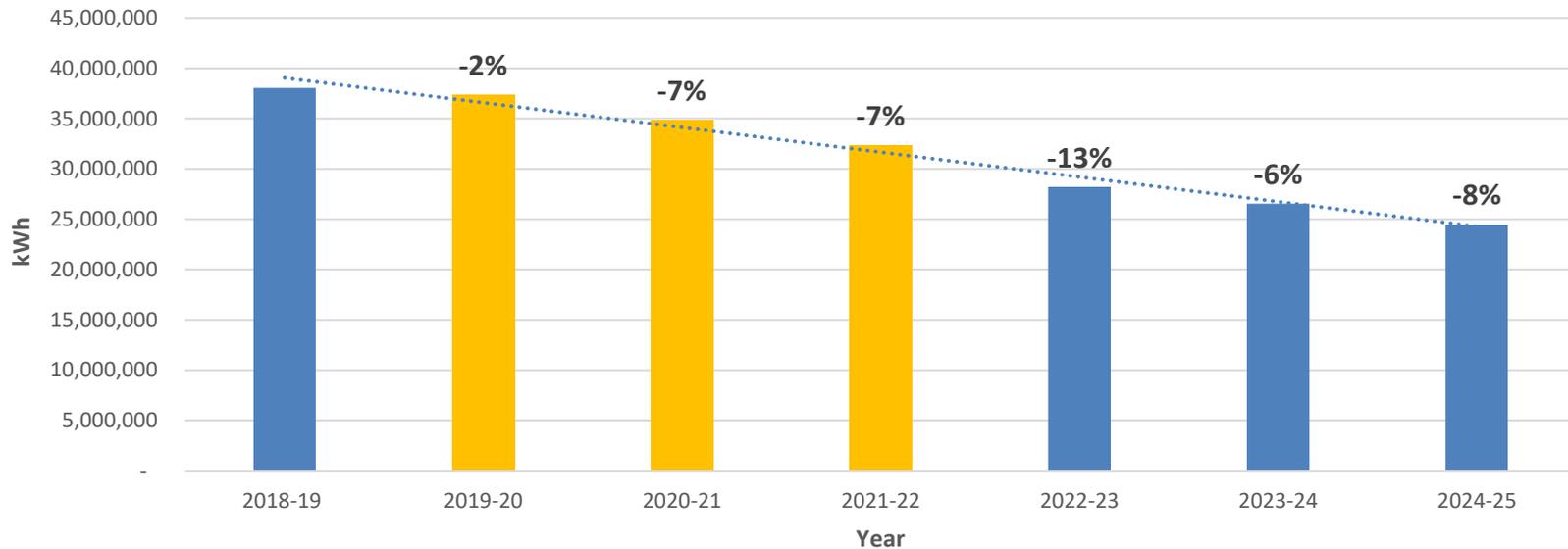
High or excess consumption analysis



Heating policy

Summary Reductions

Gas consumption against financial year



- **17.6m** kWh of gas consumption avoided Jun22 – Nov25
- **3,179** tonnes CO2e reduction
- Cost reduction to the council of **£766,000**

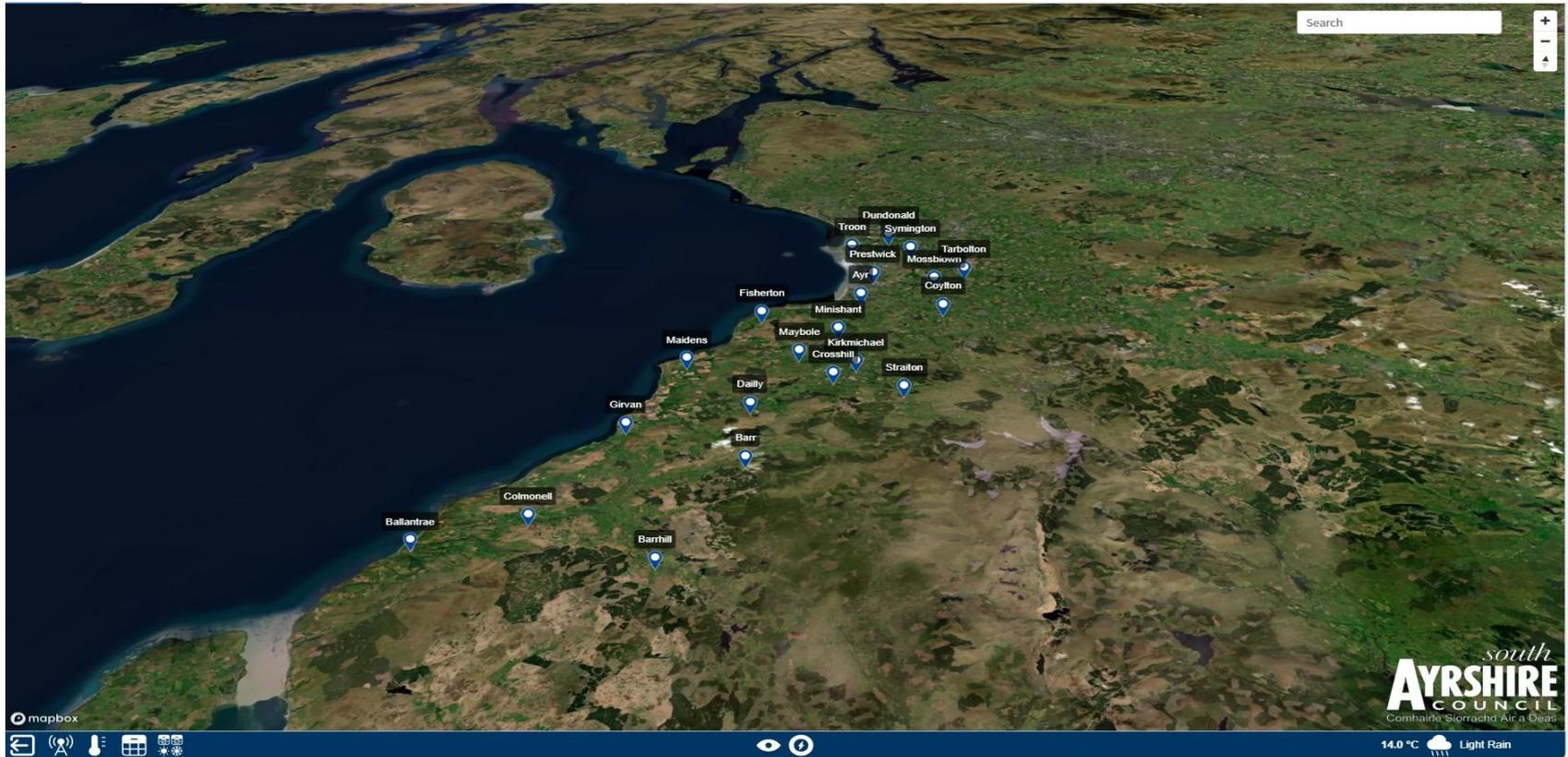
Challenges

- ICT Security and MS Azure setup
- BEMS contractor remote access
- Bacnet and Modbus connectivity within sites
- License – 563 devices & 21,052 points
- Site engagement (managing change)

Future Developments

- Integration of non-Trend devices
- Nova rollout
- Future Capital project integration
- Salix funding

System Demonstration



Maybole Community Campus

View Old Graphics

Lower Gnd Floor Avg: 21.9 °C

Upper Gnd Floor Avg: 20.4 °C

First Floor Avg: 20.6 °C

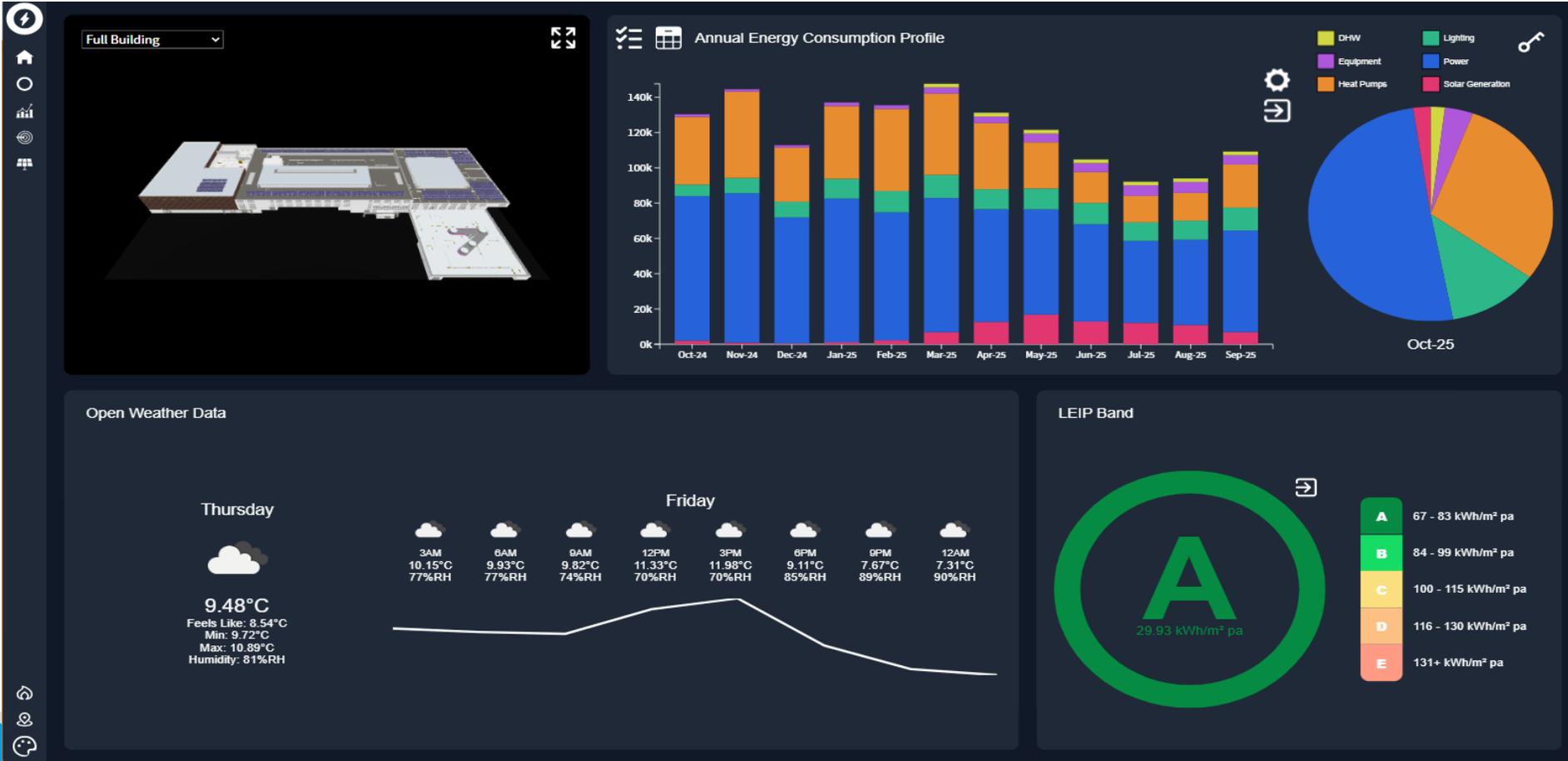
Second Floor Avg: 22.3 °C

Average Space Temp: 21.3 °C

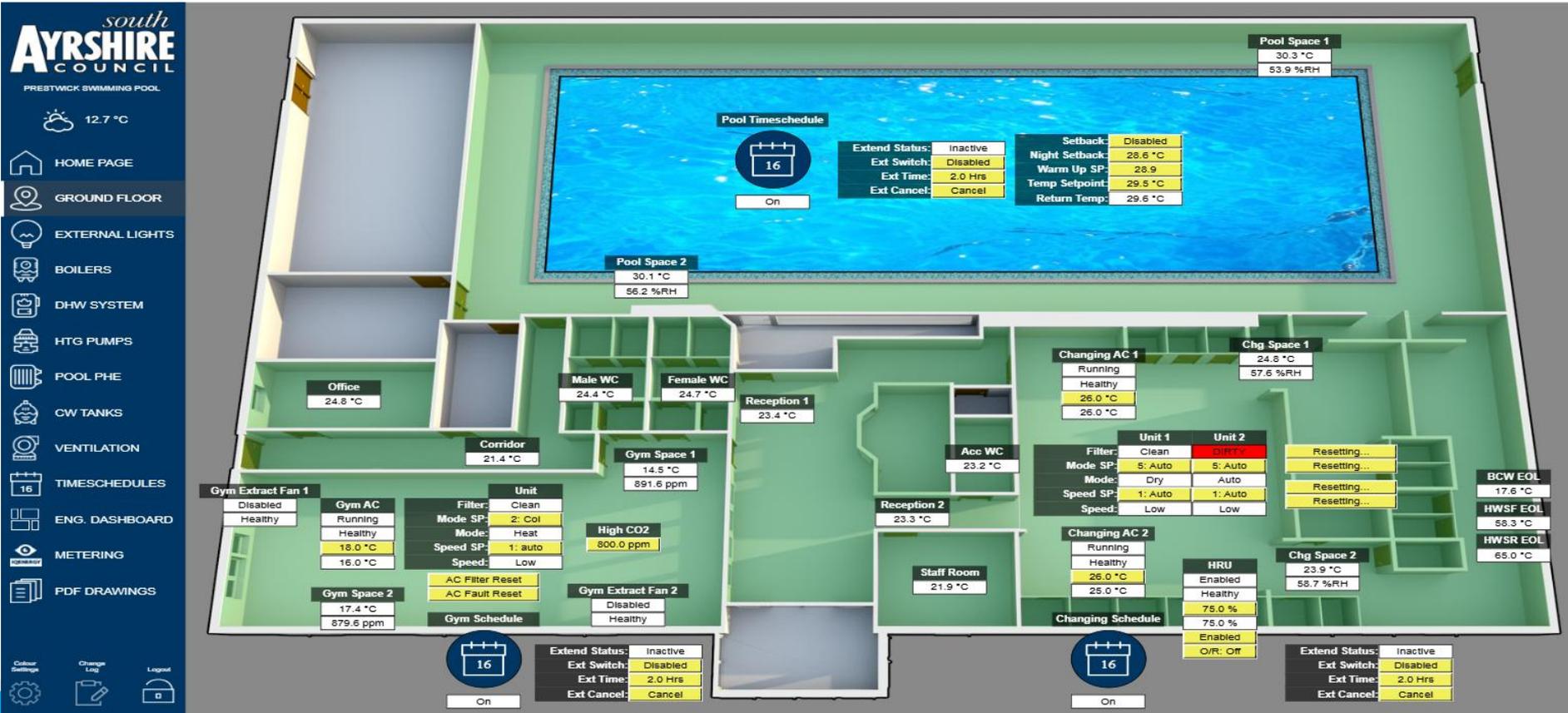
System Information											
PV Inverter No 1:	Healthy	OSA High Limit:	Inactive	Pool Trace Heating:	Healthy	Main CW Booster:	Healthy				
PV Inverter No 2:	Healthy	Frost Override Status:	Inactive	Pool Trace Heating:	Healthy	Science CAT5 Booster:	Healthy				
PV Inverter No 3:	Healthy	Pipe Frost:	Inactive	Pool Leak Alarm:	Healthy	Pool CAT5 Booster:	Healthy				
PV Inverter No 4:	Healthy	OSA Frost:	Inactive	Pool Leak Alarm Status:	Healthy	Summer/Winter Mode:	Winter				
PV Inverter No 5:	Healthy	OSA High Limit SP:	17.0 °C	Summer Low OSA SP:	3.0 °C	Holiday/Normal Mode:	Normal				

- south AYRSHIRE COUNCIL**
MAYBOLE CAMPUS
- 9.4 °C
- HOME PAGE
 - FLOOR LAYOUTS
 - HEATING PLANT
 - MANIFOLDS
 - CW TANK
 - AHUS
 - HRUS
 - EXTRACT FANS
 - TIMESCHEDULES
 - HTG VALVES
 - ENG. DASHBOARD
 - METERING
 - PDF DRAWINGS
-

Maybole Community Campus



Prestwick Swimming Pool



Prestwick Swimming Pool

south AYRSHIRE COUNCIL
PRESTWICK POOL VENTILATION

12.7 °C

HOME PAGE
POOLAHU
CHANGING HRU
EXTRACT FANS
TIMESCHEDULES
ENG. DASHBOARD
METERING
PDF DRAWINGS

Pool AHU Schedule

Critical Alarm: Healthy
Maintenance Alarm: Healthy

16
On

Supply Fan
10561.1 m³/hr

Extract Temp And Humidity

30.0 °C	55.0 %RH
29.8 °C	54.0 %RH

Supply Temp
38.7 °C

Heating Valve
37.7 %

Extract Fan
10971.7 m³/hr

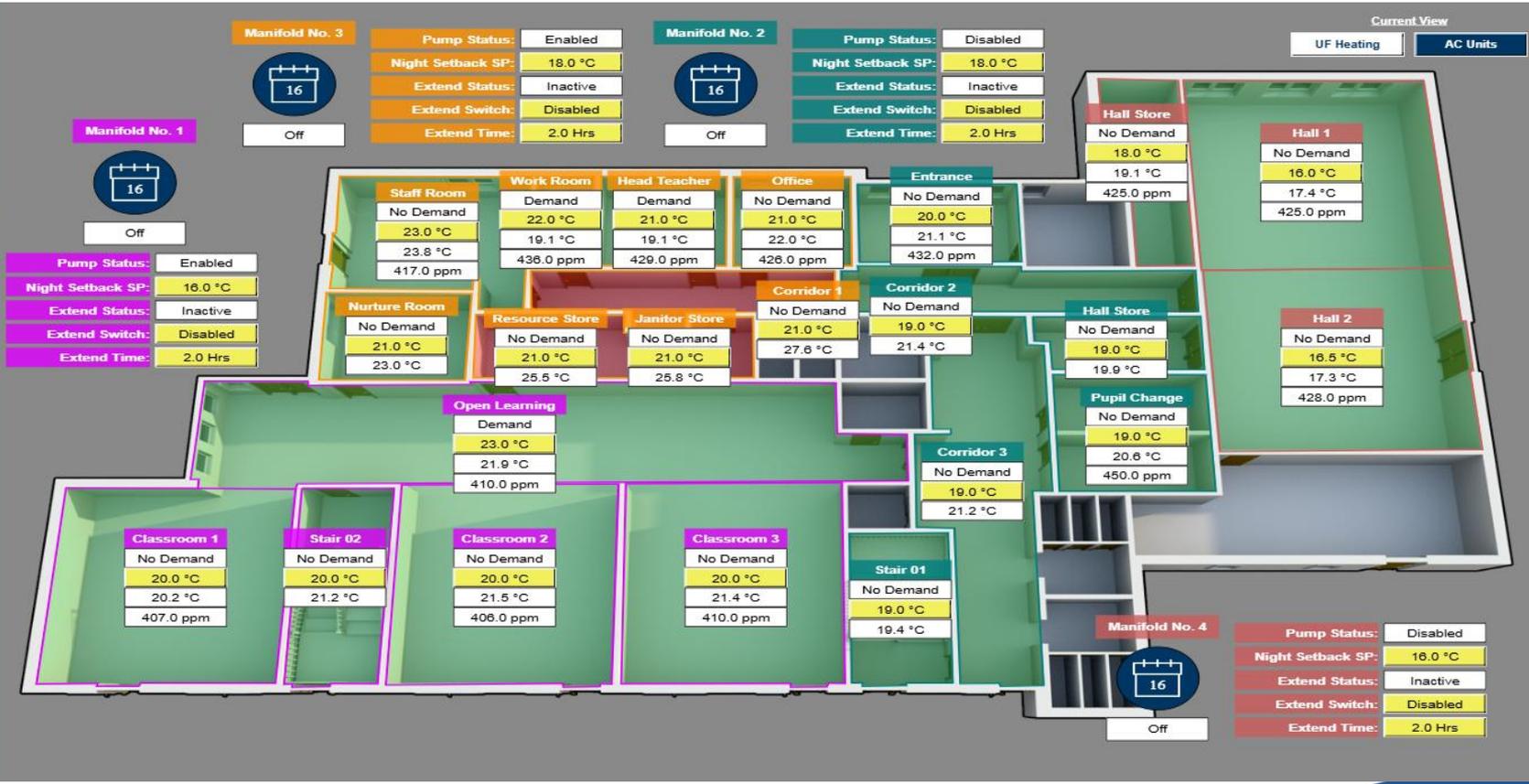
Fresh Air Temp
13.0 °C

Colour Settings
Change Log
Logout

south AYRSHIRE COUNCIL
Comhairle Siorrachd Àir a Deas
Making a Difference Every Day

Sacred Heart Primary School

- south AYRSHIRE COUNCIL**
SACRED HEART PRIMARY SCHOOL
- 11.1 °C
- HOME PAGE
 - GROUND FLOOR
 - FIRST FLOOR
 - EXTERNAL LIGHTS
 - ASHP
 - DHW SYSTEM
 - CW TANK
 - VENTILATION
 - TIMESCHEDULES
 - ENG. DASHBOARD
 - METERING
 - SOLAR PV
 - CARRIER
 - PDF DRAWINGS
- Colour Settings Change Log Logout



Sacred Heart Primary School

south AYRSHIRE COUNCIL
SACRED HEART PRIMARY SCHOOL

☁️ 11.1 °C

- HOME PAGE
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[Colour Settings](#)
[Change Log](#)
[Logout](#)

Meeting Rm AC

Off

Extend Status: Inactive		Extend Switch: Disabled		Extend Time: 2.0 Hrs	
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Classroom 01	
Room Temp:	17.2 °C
Room Setpoint:	20.0 °C
Cooling SP:	24.0 °C
Heating SP:	19.0 °C
On/Off:	On
Mode:	Fan
Speed:	Low
Directn:	Horizontal
Filter:	DIRTY
Error Status:	Normal

Classroom 02	
Room Temp:	18.6 °C
Room Setpoint:	20.0 °C
Cooling SP:	24.0 °C
Heating SP:	19.0 °C
On/Off:	On
Mode:	Auto
Speed:	Low
Directn:	Horizontal
Filter:	DIRTY
Error Status:	Normal

Classroom 03	
Room Temp:	18.7 °C
Room Setpoint:	20.0 °C
Cooling SP:	24.0 °C
Heating SP:	19.0 °C
On/Off:	On
Mode:	Auto
Speed:	Low
Directn:	Horizontal
Filter:	Clean
Error Status:	Normal

Meeting Room	
Room Temp:	0.0 °C
Room Setpoint:	0.0 °C
On/Off:	O/R Off
Mode:	Auto
Speed:	Low
Directn:	Horizontal
Filter:	DIRTY
Fault Status:	Healthy

Kitchen AC	
Off	
Extend Status:	Inactive
Extend Switch:	Disabled
Extend Time:	2.0 Hrs

Kitchen	
Room Temp:	19.1 °C
Room Setpoint:	18.0 °C
Humidity:	47.4 %RH
On/Off:	O/R Off
Mode:	Auto
Speed:	Low
UD Dir:	Horizontal
RL Dir:	Horizontal
Fault Status:	Healthy

Current View

UF Heating | AC Units

Annbank Primary School

south AYRSHIRE COUNCIL
ANNBANK PRIMARY SCHOOL

9.7 °C

HOME PAGE
FLOOR LAYOUTS
EXTERNAL LIGHTS
MIDDLE BOILERS
MIDDLE DHWS
MIDDLE PUMPS
BOTTOM BOILERS
BOTTOM DHWS
BOTTOM PUMPS
NURSERY BOILERS
NURSERY PUMPS
TIMESCHEDULES
ENG. DASHBOARD
PDF DRAWINGS

Colour Settings Change Log Logout

Avg Light Level
96.9 lx

MUGA Pitch
Lighting: Enabled
Lux SP: 0.0 lx
Override: Inactive
OR Time: 0.0 hr
OR Switch: Disabled
Light Level: 64.9 lx

Path
Lighting: Disabled
Lux SP: 0.0 lx
Override: Inactive
OR Time: 0.0 hr
OR Switch: Disabled
Light Level: 103.9 lx

Library
Lighting: Disabled
Lux SP: 0.0 lx
Override: Inactive
OR Time: 0.0 hr
OR Switch: Disabled
Light Level: 121.9 lx

School
Lighting: Disabled
Lux SP: 0.0 lx
Override: Inactive
OR Time: 0.0 hr
OR Switch: Disabled
Light Level: 121.9 lx

Early Years
Lighting: Disabled
Lux SP: 0.0 lx
Override: Inactive
OR Time: 0.0 hr
OR Switch: Disabled
Light Level: 103.9 lx

Car Park
Lighting: Enabled
Lux SP: 0.0 lx
Override: Inactive
OR Time: 0.0 hr
OR Switch: Disabled
Light Level: 64.9 lx