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 125 sites
- Drivers Net zero targets & energy costs
- Capital spend £350k



Energy Data Improvements

- Installation of 130 Gas AMR with supplier
- Heat mapping analysis

CIA-	DID-+-	D	110020	110400	110420	110200	110220	110200	110220	110400	110420	HOLOO	110530	110000	110520	110700	110720	110000
Site	ReadDate	ProfileDate	H0030	H0100	H0130	H0200	H0230	H0300	H0330	H0400	H0430	H0500	H0530	H0600	H0630	H0700	H0730	H0800
St. John's Primary School	06/01/2023	1642.171	0	1.1452	60.6739	60.6739	59.5287	60.6739	59.5287	59.5287	60.6739	59.5287	52.5291	57.0974	55.9551	53.6715	55.9551	55.9551
St. John's Primary School	05/01/2023	1631.325	59.5287	60.6739	59.5287	58.3846	59.5287	59.5287	57.2394	54.9502	56.0942	56.0942	51.5157	50.3705	50.3705	51.5157	51.5157	52.6598
St. John's Primary School	04/01/2023	1578.511	60.5233	60.5233	60.5233	55.9551	45.6784	45.6784	47.962	46.8196	50.2455	49.1043	46.9361	45.792	49.2265	46.9361	48.0813	50.3705
St. John's Primary School	03/01/2023	1784.042	59.5287	58.3846	59.5287	58.3846	58.3846	58.3846	59.5287	58.3846	58.3846	59.5287	58.2398	59.381	59.381	59.381	60.5233	59.381
St. John's Primary School	02/01/2023	2009.1	59.5287	59.5287	59.5287	59.5287	59.5287	59.5287	58.3846	59.5287	59.5287	59.5287	58.3846	59.5287	59.5287	58.3846	59.5287	59.5287
St. John's Primary School	01/01/2023	6.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. John's Primary School	31/12/2022	4.5796	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. John's Primary School	30/12/2022	1596.983	0	1.1452	60.6739	59.5287	59.5287	60.6739	59.5287	59.5287	52.6598	53.805	52.6598	51.5157	57.2394	60.6739	53.805	54.9502
St. John's Primary School	29/12/2022	1862.904	60.8244	60.8244	60.8244	60.8244	59.6764	60.8244	60.8244	59.6764	56.2334	57.3815	56.0942	53.805	56.0942	57.2394	60.6739	54.9502
St. John's Primary School	28/12/2022	1824.406	60.6739	60.6739	59.5287	60.6739	59.5287	60.6739	59.5287	56.0942	52.6598	60.6739	51.6435	56.2334	56.2334	56.2334	56.2334	57.3815
St. John's Primary School	27/12/2022	1823.646	59.5287	59.5287	59.5287	58.3846	59.5287	59.5287	58.3846	59.5287	58.3846	59.5287	58.3846	59.5287	59.5287	59.5287	59.5287	59.5287
St. John's Primary School	26/12/2022	2019.4	60.6739	59.5287	59.5287	59.5287	59.5287	59.5287	59.5287	59.5287	59.5287	58.3846	59.5287	59.5287	59.5287	59.5287	59.5287	59.5287
St. John's Primary School	25/12/2022	6.8689	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. John's Primary School	24/12/2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. John's Primary School	23/12/2022	1723.239	0	1.1452	59.5287	60.6739	59.5287	59.5287	59.5287	59.5287	59.5287	59.5287	59.381	60.5233	59.381	59.381	59.381	60.5233
St. John's Primary School	22/12/2022	1750.377	60.6739	60.6739	60.6739	60.6739	59.5287	60.6739	52.6598	60.6739	56.0942	52.6598	53.805	51.5157	52.6598	52.6598	53.805	53.805
St. John's Primary School	21/12/2022	1950.717	60.6739	59.5287	60.6739	59.5287	59.5287	60.6739	59.5287	59.5287	59.5287	59.5287	60.6739	59.5287	59.5287	60.6739	60.6739	59.5287
St. John's Primary School	20/12/2022	1959.875	60.6739	60.6739	60.6739	59.5287	60.6739	59.5287	60.6739	59.5287	60.6739	59.5287	59.5287	60.6739	59.5287	60.6739	59.5287	60.6739



Current Management



Daily checks



Monitor connections



Holiday shutdowns



Remote heating changes & fault resolution



High or excess consumption analysis

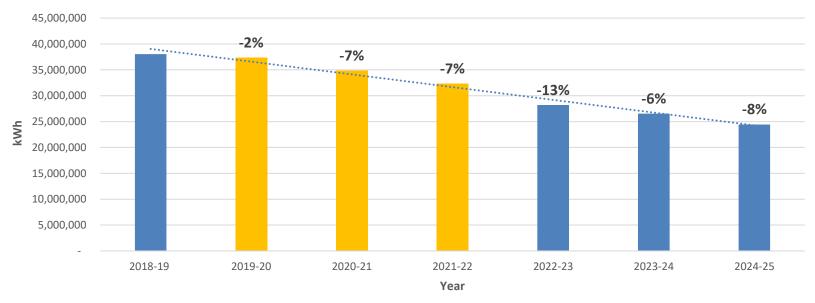


Heating policy



Summary Reductions

Gas consumption against financial year



- 17.6m kWh of gas consumption avoided since June 2022
- 3,179 tonnes CO2e reduction
- Cost reduction to the council of £766,000

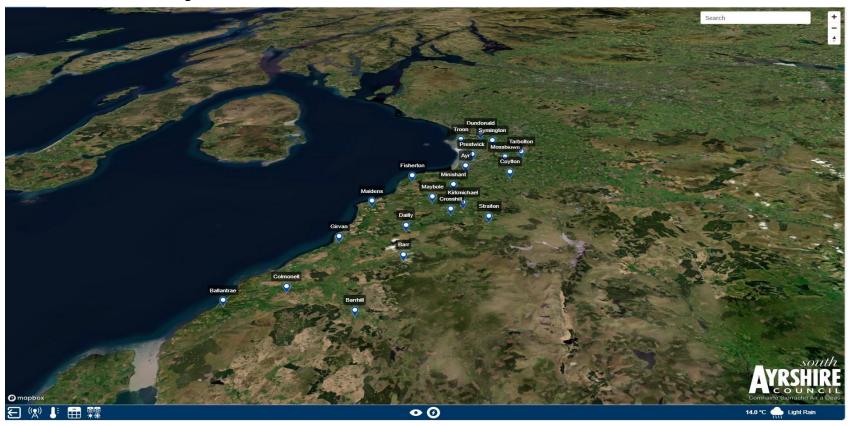


Challenges

- ICT Security and MS Azure setup
- BEMS contractor remote access
- Bacnet and Modbus connectivity within sites
- License 553 devices & 18,890 points
- Site engagement (managing change)



System Demonstration





Future Developments

- Integration of non-Trend devices
- Nova rollout

- Future Capital project integration
- Salix funding



Maybole Community Campus



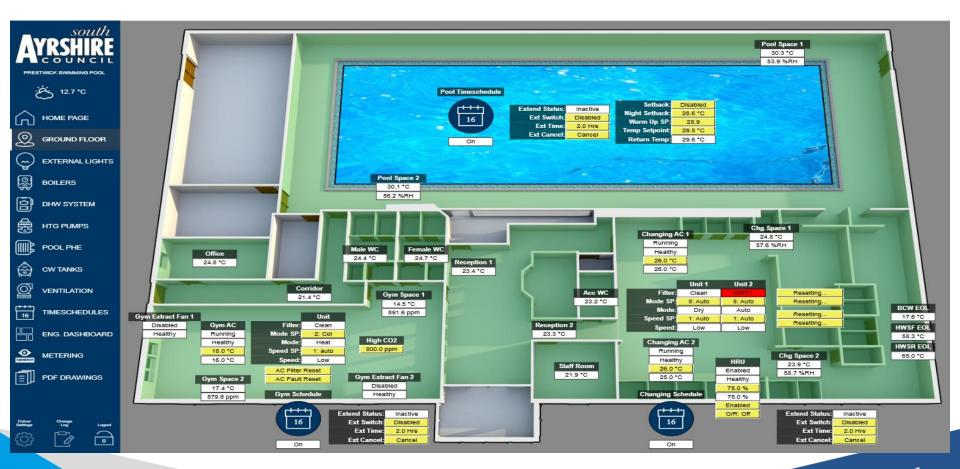


Maybole Community Campus





Prestwick Swimming Pool





Prestwick Swimming Pool



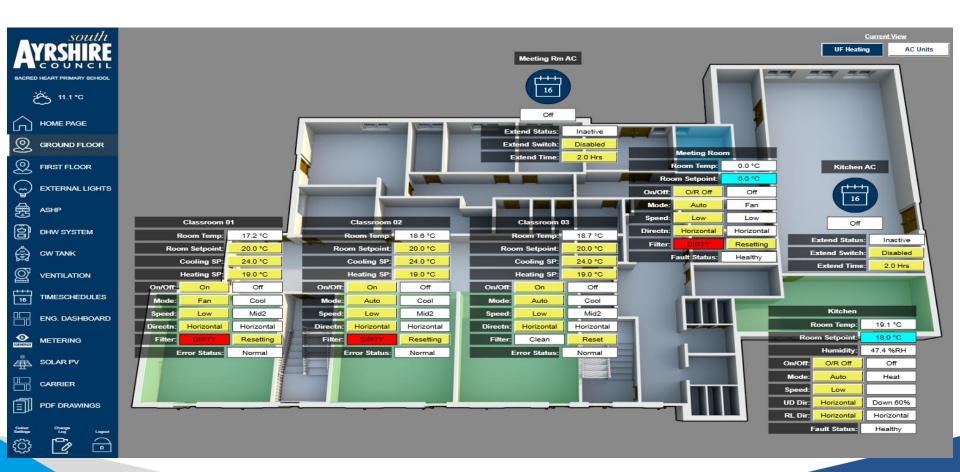


Sacred Heart Primary School





Sacred Heart Primary School





Annbank Primary School



