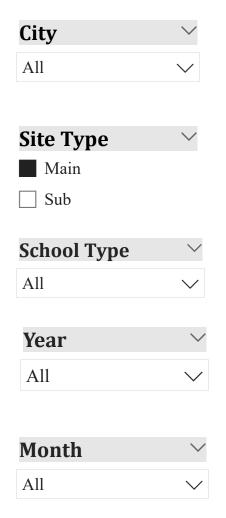




Rationalization of Building Energy Management Systems (BEMs) data and insights/analysis of the Schools' Estate

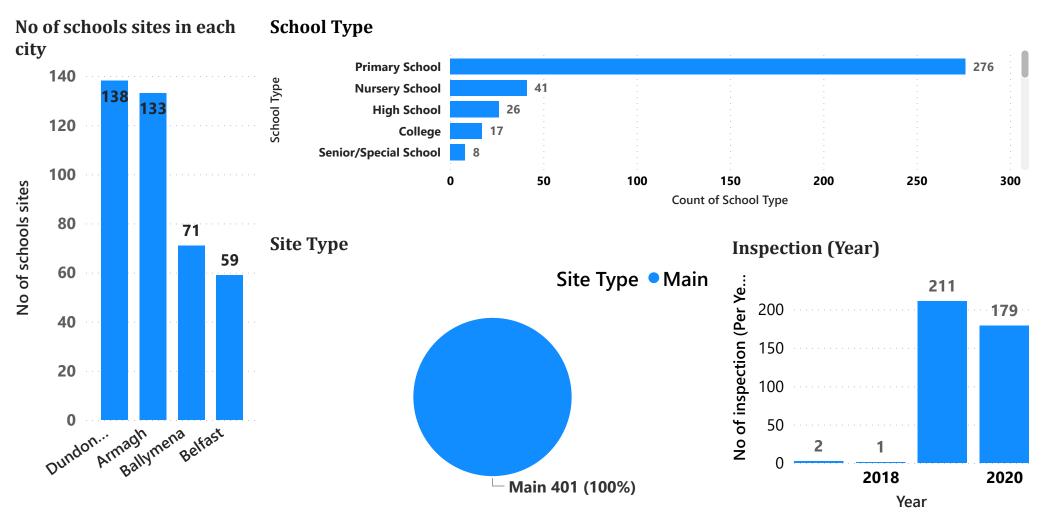
Mohamed Yusuf Alla Pitchai











Note: There are files with no date, month or year mentioned and in one file the year is mentioned as 2001.



City

Site Type

Main

All

☐ Sub

School Type

All

Year

All

Month \times

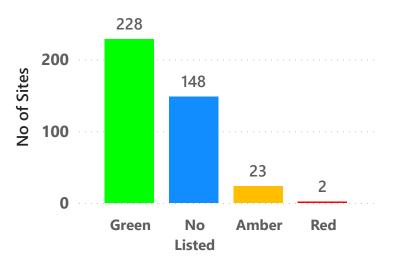
 \vee

Select Site

∠ Search

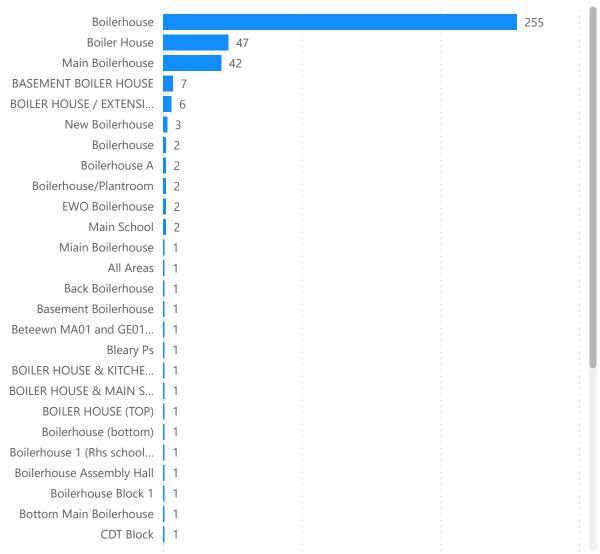
Select all

Rank Based on System Checks



- If Back-Up Saved, Network Communication Device, ODA Frost, Heat Dissipation, Panel condition all are "No" the site is ranked as "Red". There are 2 sites in the "Red" category.
- If any three of Back-Up Saved, Network Communication Device, ODA Frost, Heat Dissipation, Panel condition are "No" the site is ranked as "Amber". There are 23 sites in the "Amber" category.
- If any one of Back-Up Saved, Network Communication Device, ODA Frost, Heat Dissipation, Panel condition are "No" the site is ranked as "Green". There are 228 sites in the "Green" category.
- If the site doesn't fall into any of these categories then it is noted as "No listed"

Count of Plant Types



Note:- This analysis shows for only main sites

100 200 300

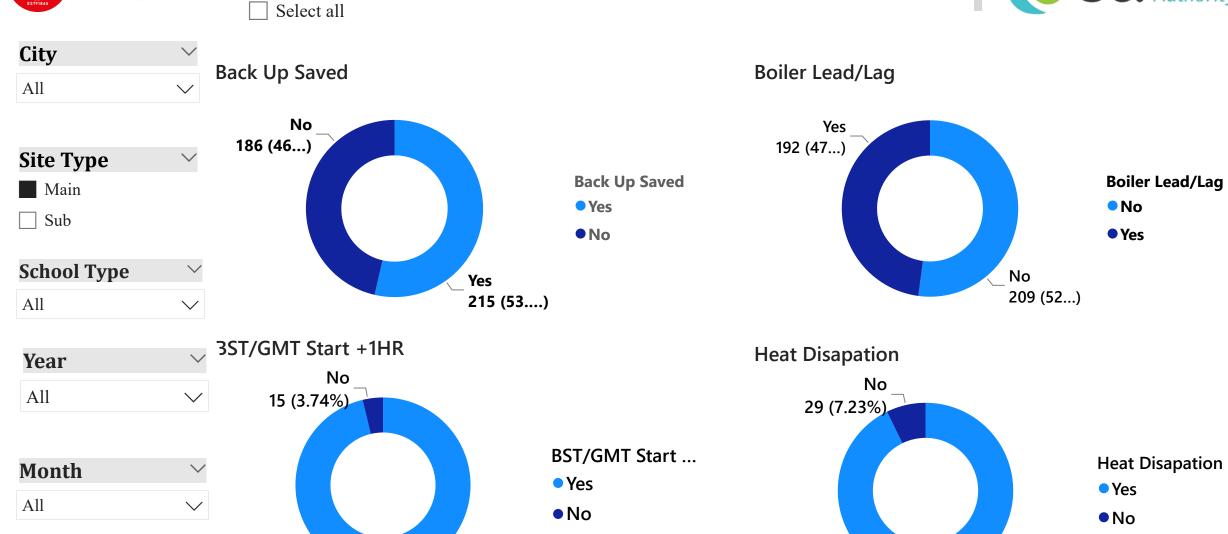


Select Site > Search



Yes

372 (92.7...)



└─ Yes 386 (9...)



Select Site > Search

ea Education Authority

City \times

Site Type

✓
Main

☐ Sub

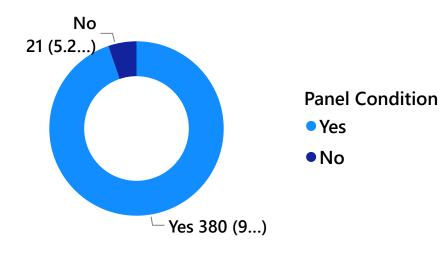




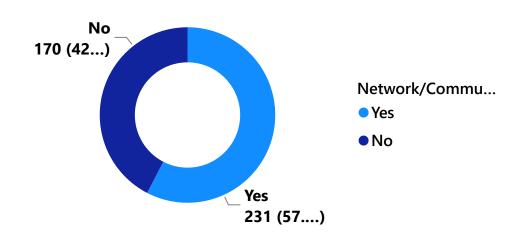




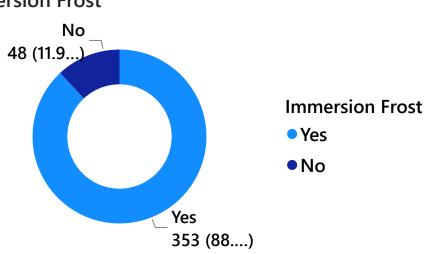
Select all



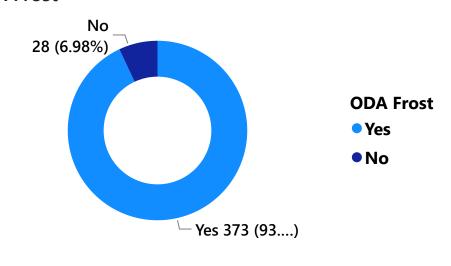
Network/Communication Device



Immersion Frost

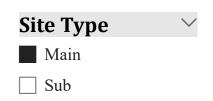


ODA Frost





City ×





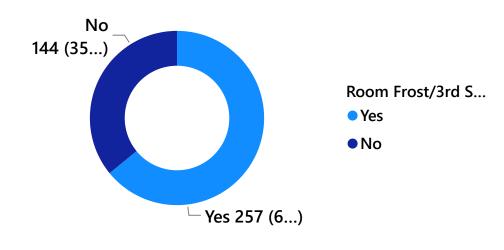




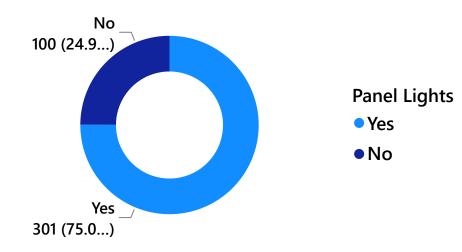






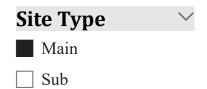








City ×







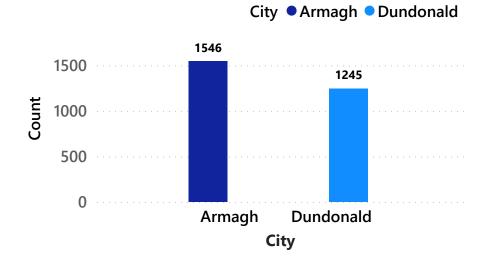


Select Site

Select all

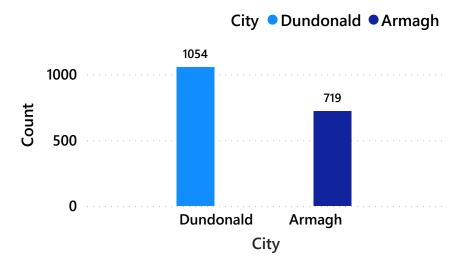
∠ Search

Input Analogue by City

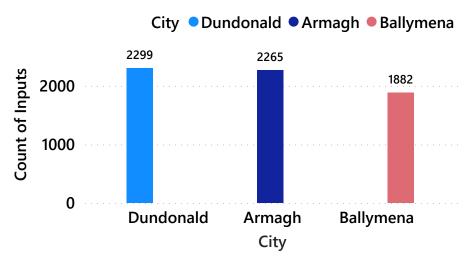


The Belfast reports don't contain any information about the number of input systems. The Ballymena report has only the sum of digital and analogue inputs.

Input Digital by City

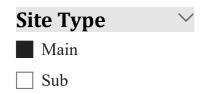


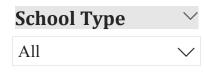
Input by City











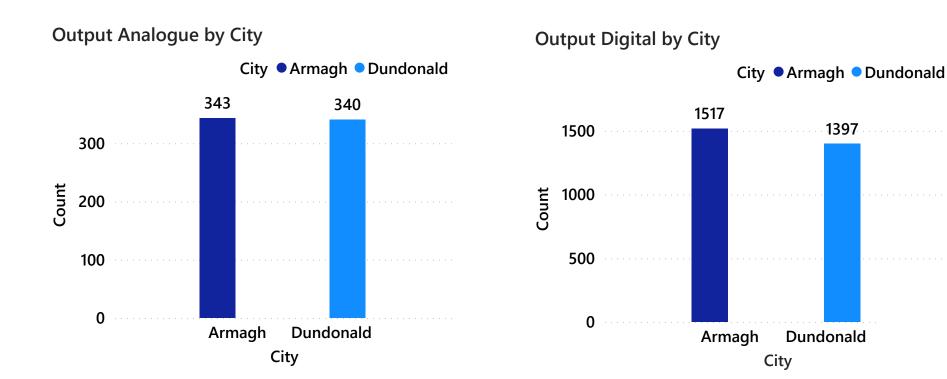








1397



For Belfast and Ballymena no information is available about Output Analogue or Digital systems.



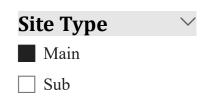
Select Site

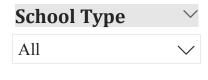
→ Search

Select all

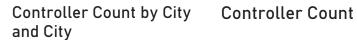


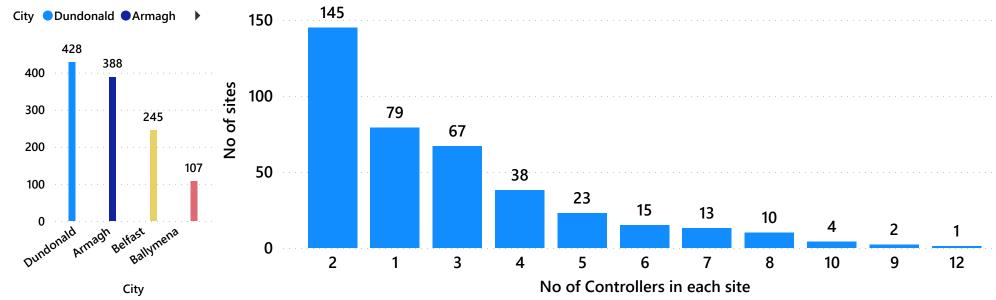
















X1

UC32.netK/LC/WEB & Keypad,

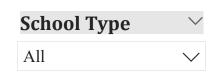
UC32.NetK, Keypad on panel door, .,

UC32.NetK & Keypad,













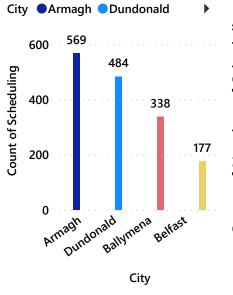


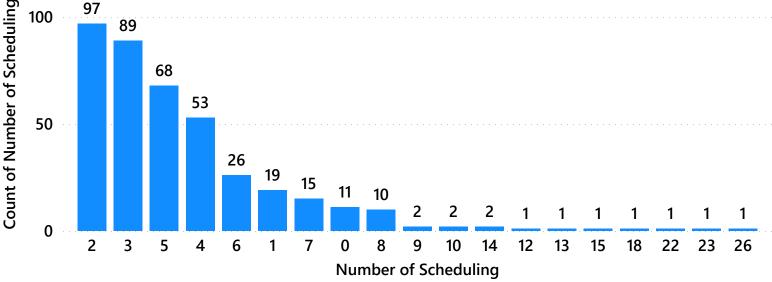
→ Search

Select all









Scheduling

HeatingHeating,DHW

1Vt,DHW

2 Storey Heating, Exist School, Minor Hall, DHW, Dining Hall

Admin Area, Youth Area, Class Area, Infant Area, Assembly Hall, Kitchen Area, UFH, Immersion Heaters

Admin LITC LIFILLITC DUIM Cohoo LITC Fix Vitahan Con Daiale











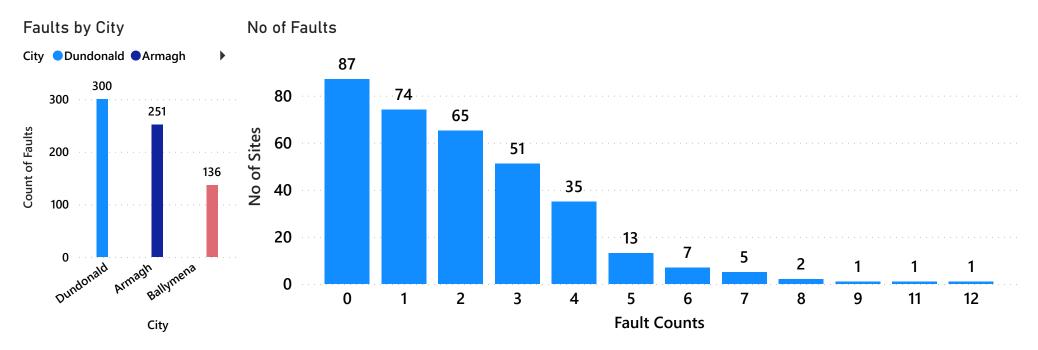


Select Site

→ Search

Select all





Fault

VT Valve

Unable to lift BMS backup, No 3rd stage frost fitted, Both heating boilers Modulating actuators removed, Very old and dull/blown, No front end for building supervisor to change settings, Displaying signs that controller has potentially locked up

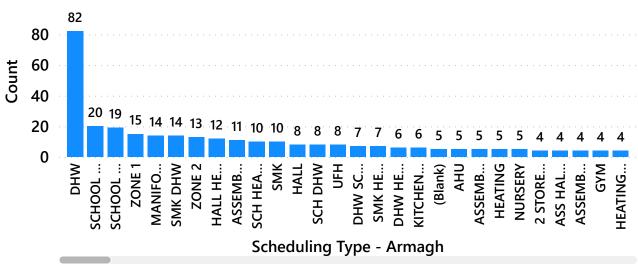
Unable to lift back up from BMS, No 3rd stage frost fitted

Trend IQView 8 LCD screen

Touchscreen showing connection errors with controllers, unable to check site

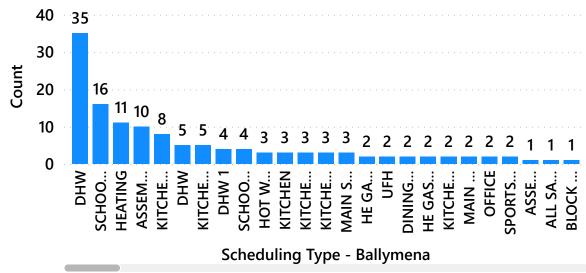


Armagh Scheduling

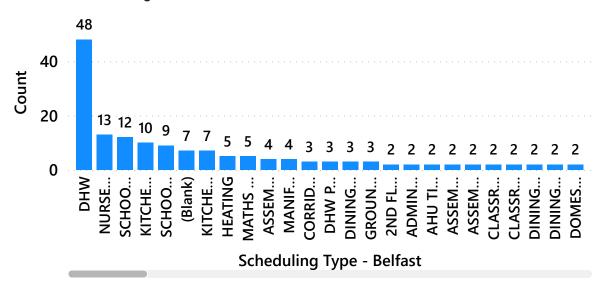


ea Education Authority

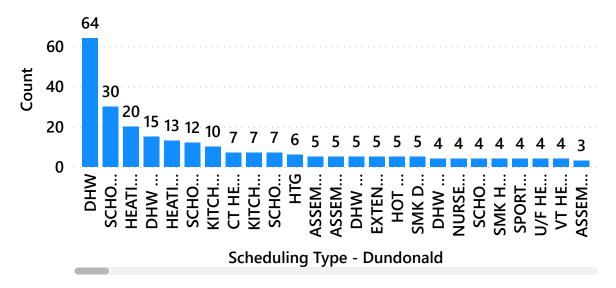




Belfast Scheduling

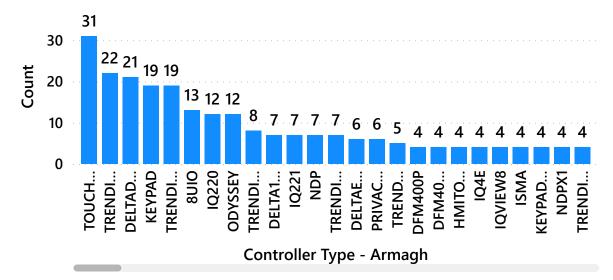


Dundonald Scheduling

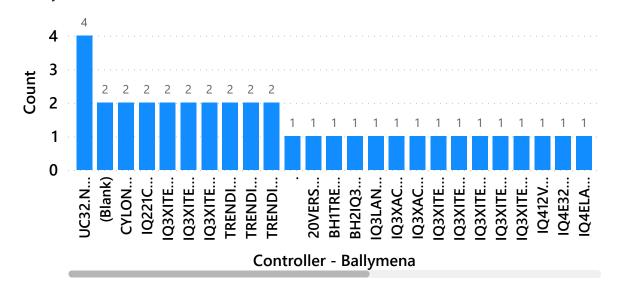




Armagh Controllers

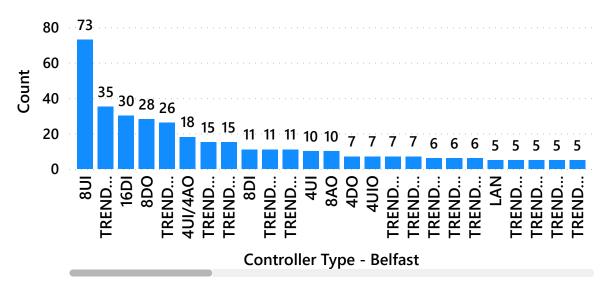


Ballymena Controller





Belfast Controller



Dundonald Controller

