Optimising Power @ Work Monthly Energy Report

IT Sligo June 2019







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Annual energy performance overview

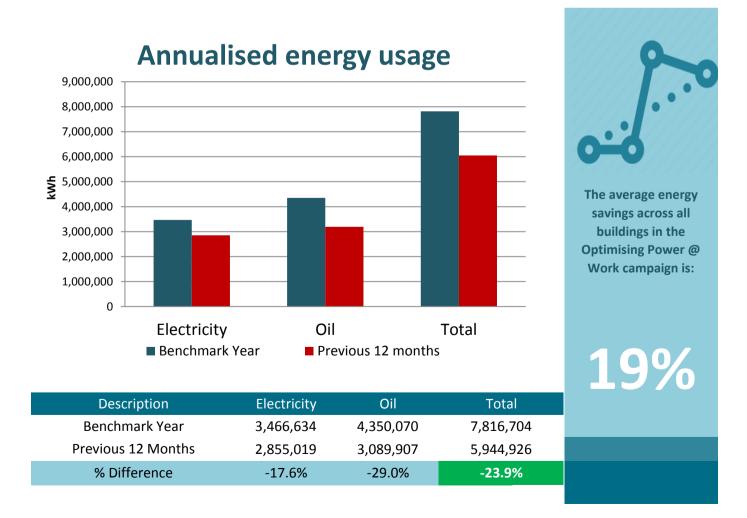
Energy consumption in this building has reduced by 24% since joining the Optimising Power @ Work campaign in 2013.

The total annual unit consumption of energy has decreased from 7,816,704 kWh to 5,944,926 kWh.

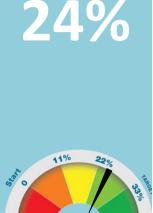
Electricity consumption on site has reduced by 18%. The number of units of electricity has decreased from 3,466,634 kWh to 2,855,019 kWh.

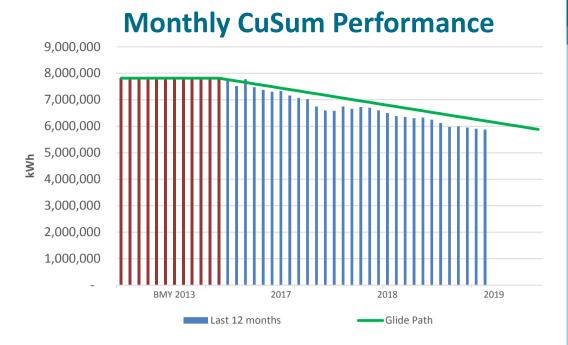
Oil consumption on site has reduced by 29%. The number of units of Oil has decreased from 4,350,070 kWh to 3,089,907 kWh (HDDC).

Getting management to sign off on an ENERGY POLICY is a great way of getting everyone on board.



Total energy savings for this building:





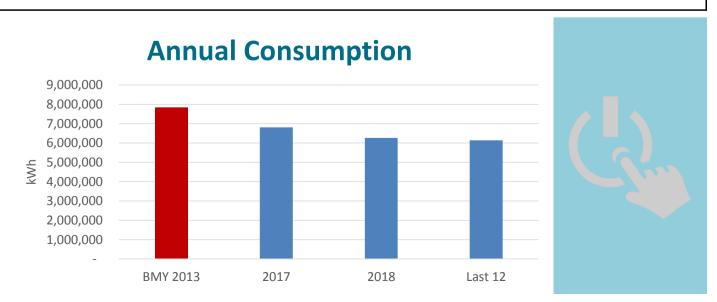
Since the Benchmark Year a -1,871,778kWh saving was seen onsite



CuSum is a sequential analysis technique used for monitoring change detection. As its name implies, CuSum involves calculation of a cumulative sum of consumption. By using this, any change over the last 12 months can be seen every month and will help identify any issues on site.

| rformance over the last 6 months: | | | | | This saving is enough to |
|-----------------------------------|-------------|-----------|-----------|----------|----------------------------------|
| Month | Electricity | Oil | Total | % Change | power374 Irish homes annually |
| Jun 2019 | 2,855,019 | 3,282,216 | 6,137,235 | -21.5% | |
| May 2019 | 2,864,329 | 3,353,918 | 6,218,247 | -20.4% | |
| Apr 2019 | 2,888,042 | 3,409,349 | 6,297,391 | -19.4% | |
| Mar 2019 | 2,906,722 | 3,385,749 | 6,292,471 | -19.5% | |
| Feb 2019 | 2,900,911 | 3,251,433 | 6,152,344 | -21.3% | |
| Jan 2019 | 2,919,027 | 3,258,905 | 6,177,932 | -21.0% | |
| | | | | | |

INTRODUCE THE ENERGY TEAM to the rest of the staff. Your team will work most effectively when staff across your organisation understand who the team members are, what they are trying to achieve and how it will benefit the organisation as a whole.

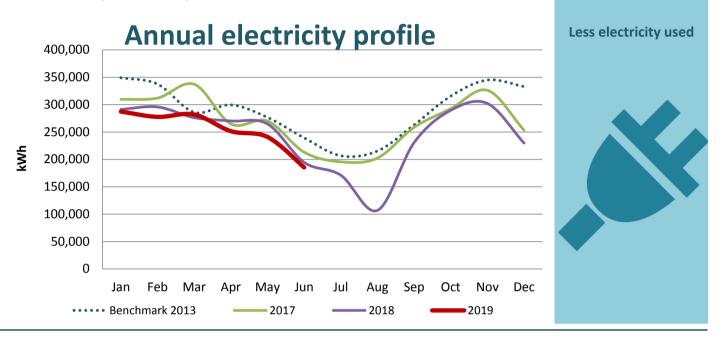


Electricity profile

Annual electricity consumption in this building has been reduced by 18% since joining the Optimising Power @ Work campaign in 2013.

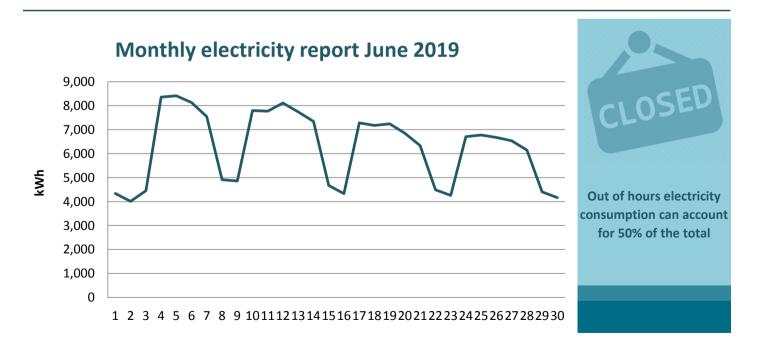
The total annual unit consumption of electricity has decreased from 3,466,634,kWh to 2,855,019kWh.

Monthly comparison data shows that June 2019 electricity consumption is 23% lower (54,017 kWh) than June 2013.



18%

Air conditioning works best when the WINDOWS AND DOORS are kept closed. Setting the stat lower will not cool the room quicker but will waste energy as the room cools more than required for comfort.

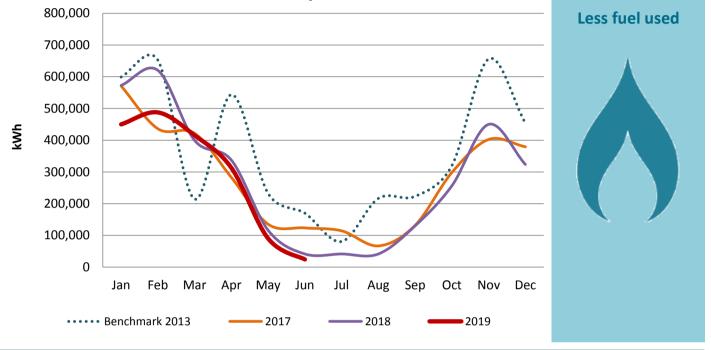


Fuel profile

Annual Oil consumption in this building has reduced by 29% since joining the Optimising Power @ Work campaign in 2013 (HDDC).

The total annual unit consumption of Oil has decreased from 4,350,070kWh to 3,089,907kWh (HDDC).

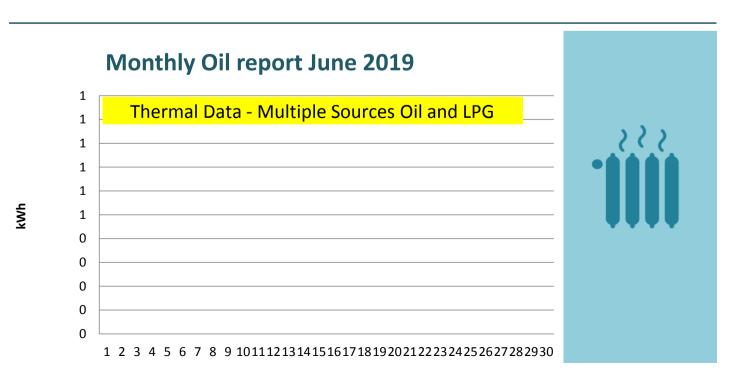
Monthly comparison data shows that the June 2019 fuel consumption is 86% lower (145,813 kWh) than June 2013.

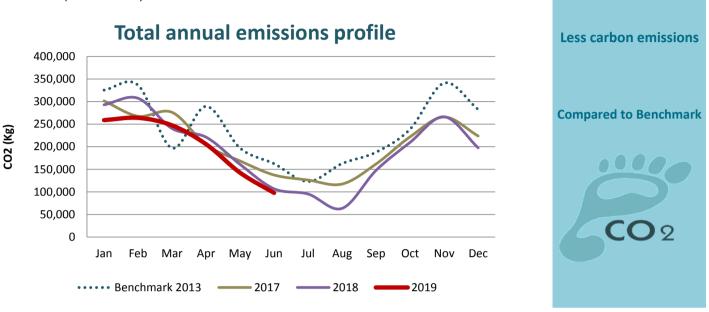


29%

Annual fuel profile

A bespoke set of POSTERS have been designed for the Optimising Power @ Work campaign. Each month your Energy Advisor will provide a new poster to display in your building, or they can be downloaded from the Energy Portal.





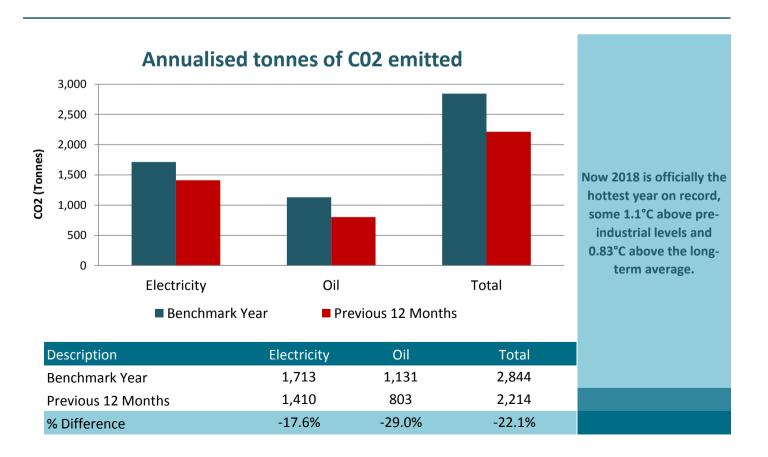
22%

Carbon dioxide emissions

Compared to the base year of 2013 the carbon emissions over the last twelve months have reduced by 22%.

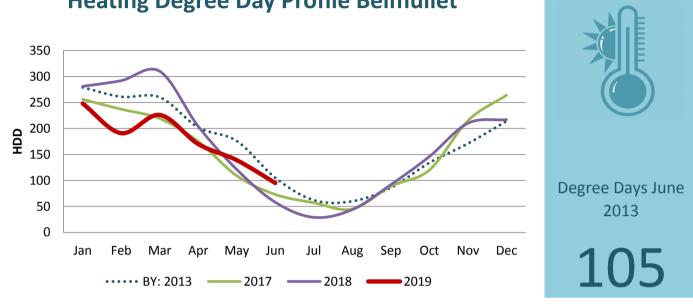
Monthly comparison data shows that the June 2019 CO2 Emissions are 40% lower (65 Tonnes) than June 2013.

Reducing the electricity used by a COOLING SYSTEM by 10,000kWh saves 5,400kg of CO2. That's equivalent to the weight of 11 highland cows.



Weather Correction Overview

Heating degree day (HDD) is a measurement designed to measure the demand for energy needed to heat a building. HDD is derived from measurements of outside air temperature. The heating requirements for a given building at a specific location are considered to be directly proportional to the number of HDD at that location. The highter the HDD value the colder it is.



Degree Days June

2019

Heating Degree Day Profile Belmullet

Staff know how their departments operate better than anyone else and so often have BRIGHT IDEAS for energy saving. Asking people their opinions and listening to them is also a good way to engage them.

