Optimising Power @ Work
Monthly Energy Report

IT Sligo
May 2019

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The Office of Public Works

Optimising Power @ Work

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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 5,954,236 kWh.

Electricity consumption on site has reduced by 17%. The number of units of electricity has decreased from 3,466,634 kWh to 2,864,329 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.

Total energy savings for this building:

24%

Start 0   11%   22%   33% TARGET

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.
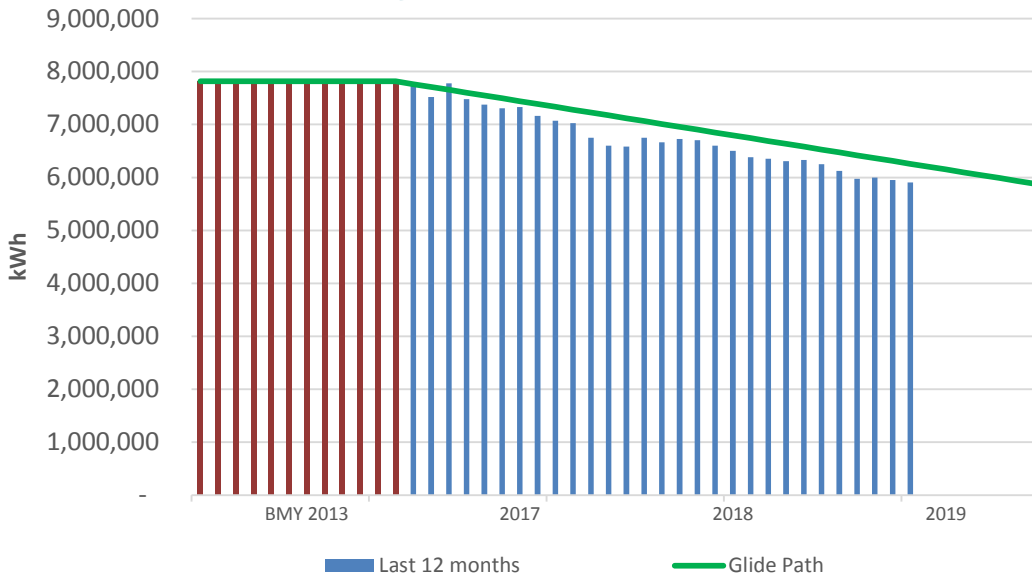

Annualised energy usage

kWh

Electricity Oil Total

■ Benchmark Year ■ Previous 12 months
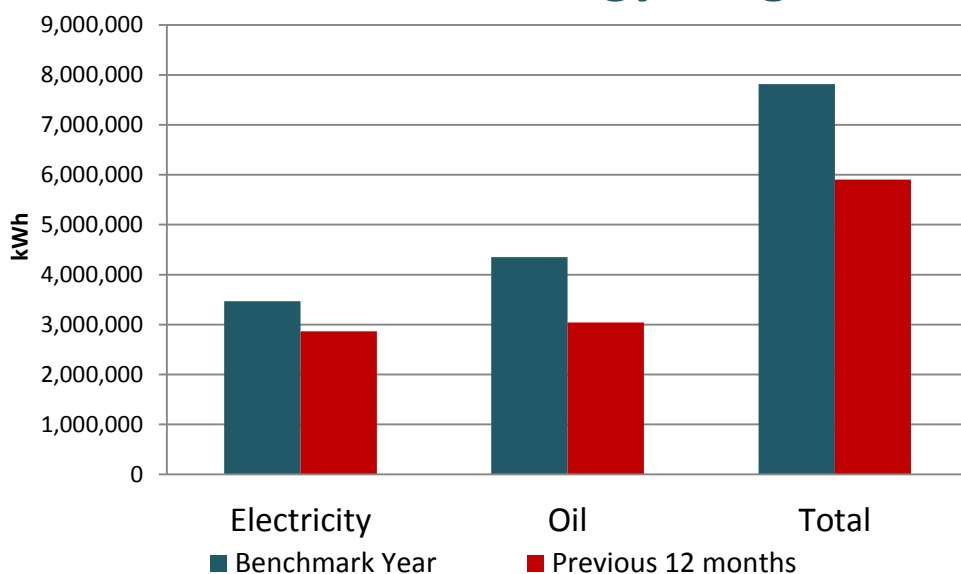
The average energy savings across all buildings in the Optimising Power @ Work campaign is:

19%

Description	Electricity	Oil	Total
Benchmark Year	3,466,634	4,350,070	7,816,704
Previous 12 Months	2,864,329	3,089,907	5,954,236
% Difference	-17.4%	-29.0%	-23.8%

Monthly CuSum Performance

Legend: Last 12 months | Glide Path

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.

Performance over the last 6 months:

Month	Electricity	Oil	Total	% Change
May 2019	2,864,329	3,039,649	5,903,978	**-24.5%**
Apr 2019	2,888,042	3,065,527	5,953,569	**-23.8%**
Mar 2019	2,906,722	3,089,907	5,996,629	**-23.3%**
Feb 2019	2,900,911	3,073,903	5,974,814	**-23.6%**
Jan 2019	2,919,027	3,206,440	6,125,467	**-21.6%**
Dec 2018	2,923,051	3,329,197	6,252,248	**-20.0%**

Since the Benchmark Year a -1,862,468kWh saving was seen onsite

This saving is enough to power372 Irish homes annually

SENIOR MANAGEMENT COMMITMENT gives credibility to a behavioural change programme. It encourages involvement from staff and helps to break down barriers that may be preventing energy improvements being achieved.

Annual Consumption
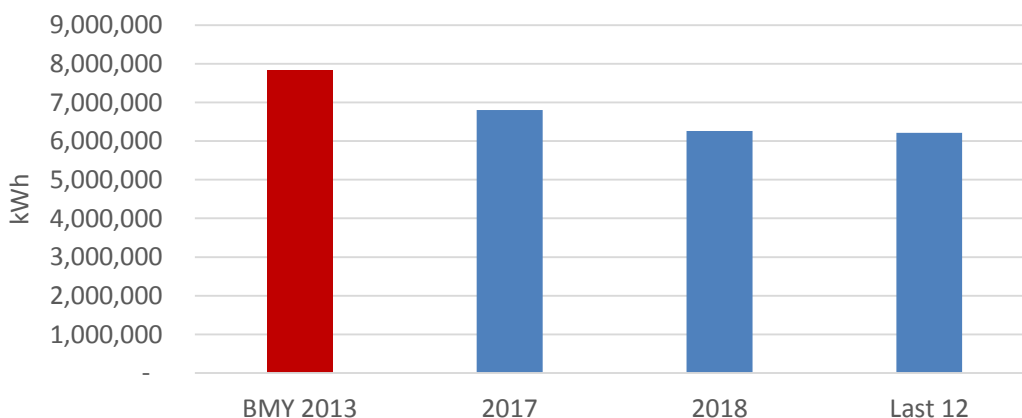
Electricity profile

Annual electricity consumption in this building has been reduced by 17% since joining the Optimising Power @ Work campaign in 2013.

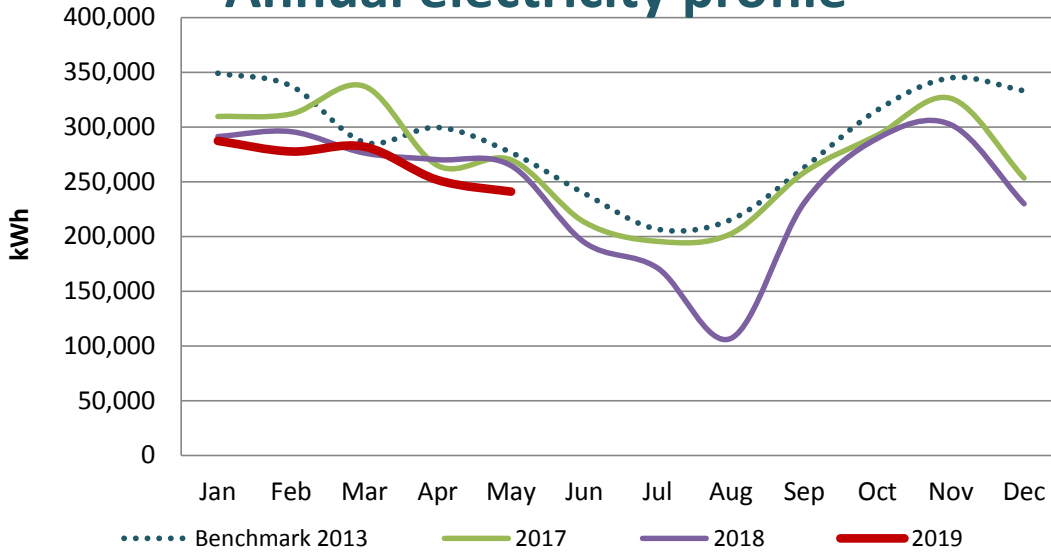The total annual unit consumption of electricity has decreased from 3,466,634,kWh to 2,864,329kWh.

Monthly comparison data shows that May 2019 electricity consumption is 13% lower (35,680 kWh) than May 2013.

17%

Less electricity used

Annual electricity profile

Legend: Benchmark 2013 · 2017 · 2018 · 2019

A significant portion of a building's energy consumption can be during unoccupied periods. An OUT OF HOURS CHECK can be a constructive awareness activity, bringing attention to the energy consumption within the control of every member of staff.

Monthly electricity report May 2019
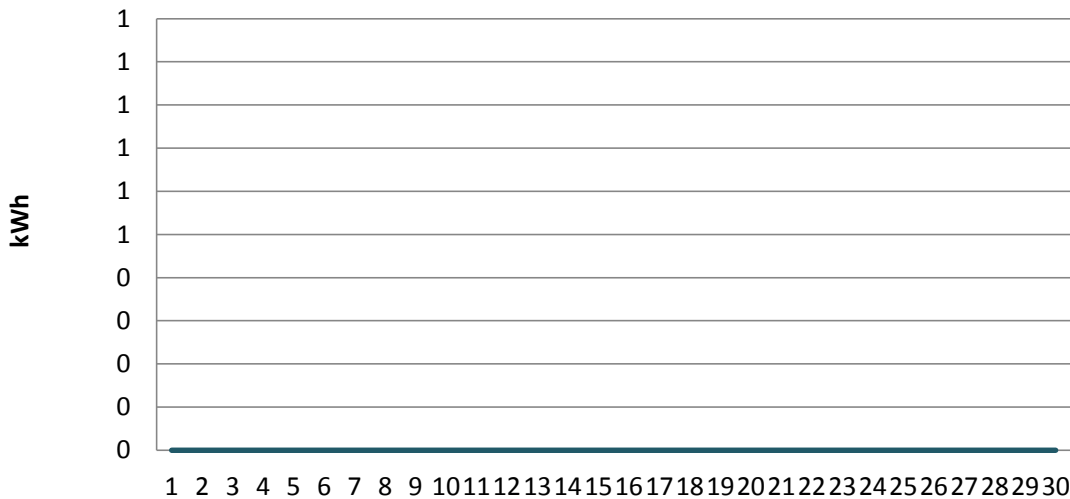
Out of hours electricity consumption can account for 50% of the total

Fuel profile

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

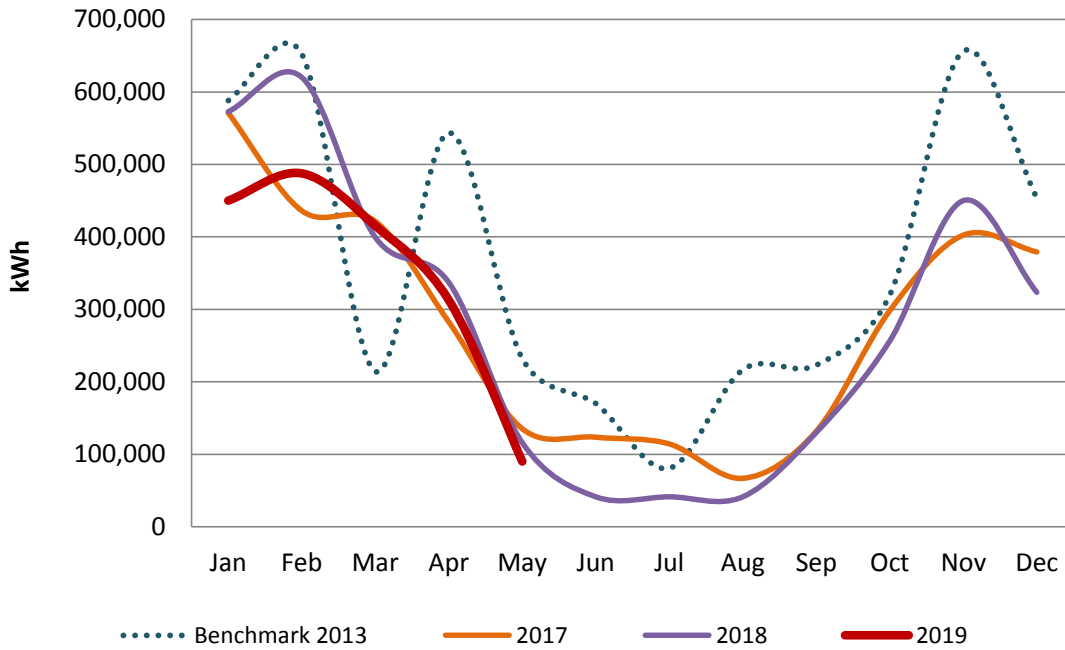The total annual unit consumption of Oil has decreased from 4,350,070kWh to 3,089,907kWh.

Monthly comparison data shows that the May 2019 fuel consumption is 61% lower (142,064 kWh) than May 2013.
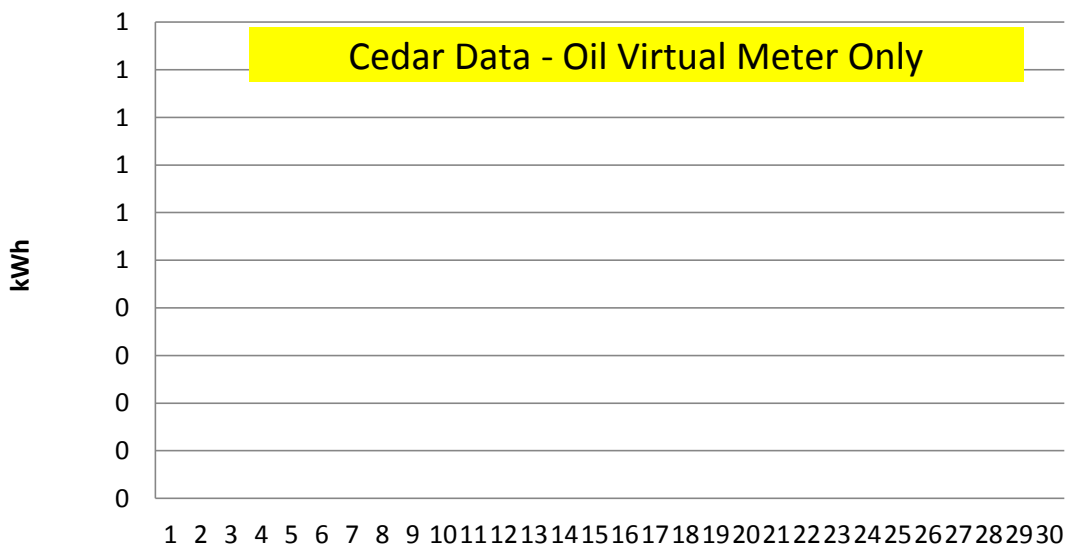
29%

Less fuel used

Annual fuel profile

Legend: ······ Benchmark 2013 — 2017 — 2018 — 2019

Ensure your heating has been turned onto SUMMER MODE or switched off as soon as the weather permits to maximise your energy savings.

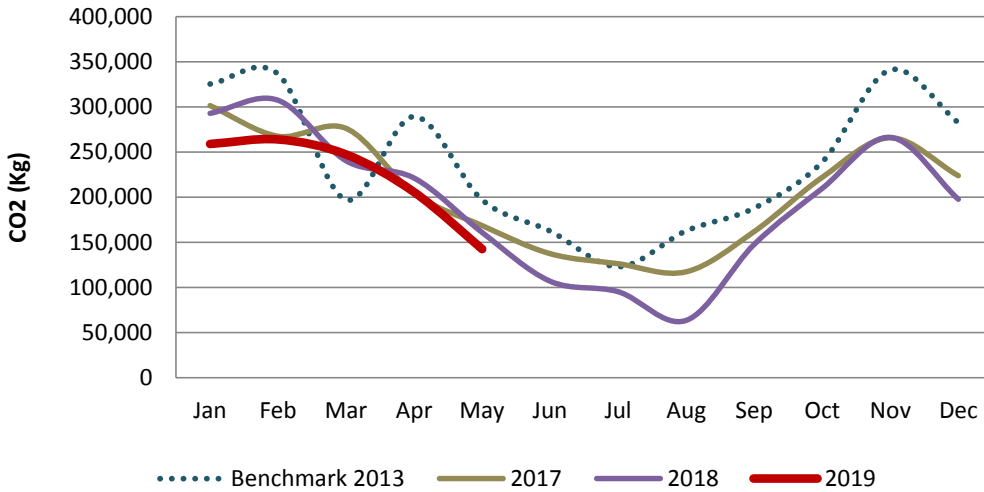## Monthly Oil report May 2019

Cedar Data - Oil Virtual Meter Only

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 May 2019 CO2 Emissions are 28% lower (55 Tonnes) than May 2013.
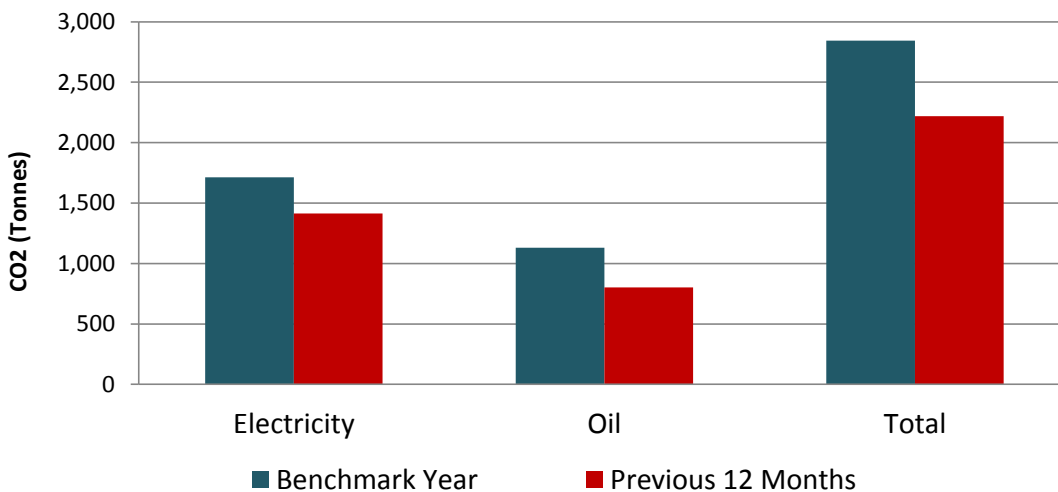
Total annual emissions profile

22%

Less carbon emissions

Compared to Benchmark

CO2

If you can think up an event that is just right for your building or organisation, then MAKE IT HAPPEN and tell us all about it. Your Energy Advisor is here to help.

Annualised tonnes of C02 emitted

Now 2018 is officially the hottest year on record, some 1.1°C above pre-industrial levels and 0.83°C above the long-term average.

| Description	Electricity	Oil	Total
Benchmark Year	1,713	1,131	2,844
Previous 12 Months	1,415	803	2,218
% Difference	-17.4%	-29.0%	-22.0%

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.

Heating Degree Day Profile Belmullet
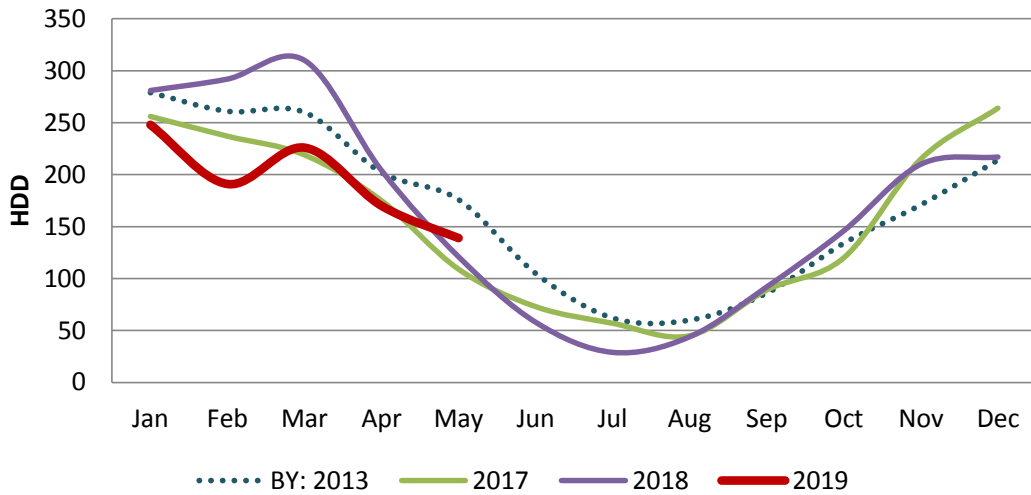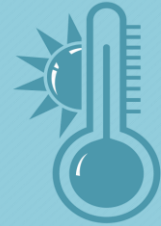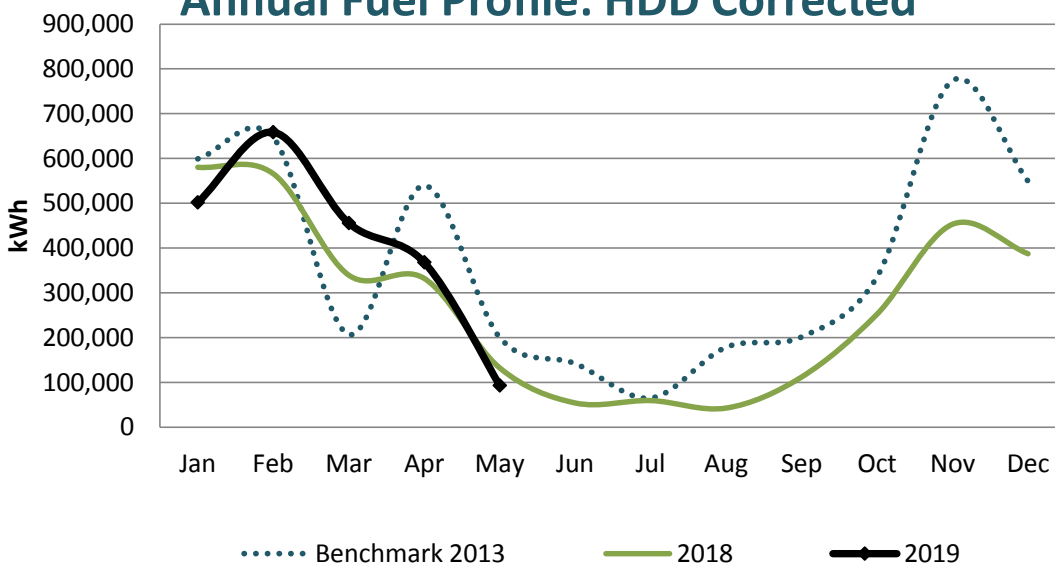
People love a challenge, so running a quiz or COMPETITION is an interesting way to engage staff. If you can provide a prize, which can help to encourage participation, then all the better! It is one way of making learning about energy saving fun.

Annual Fuel Profile: HDD Corrected

Your Optimising Power @ Work ENERGY ADVISOR is here to provide you with support. So if you need any help using the campaign materials or with staff engagement in general, please contact them.