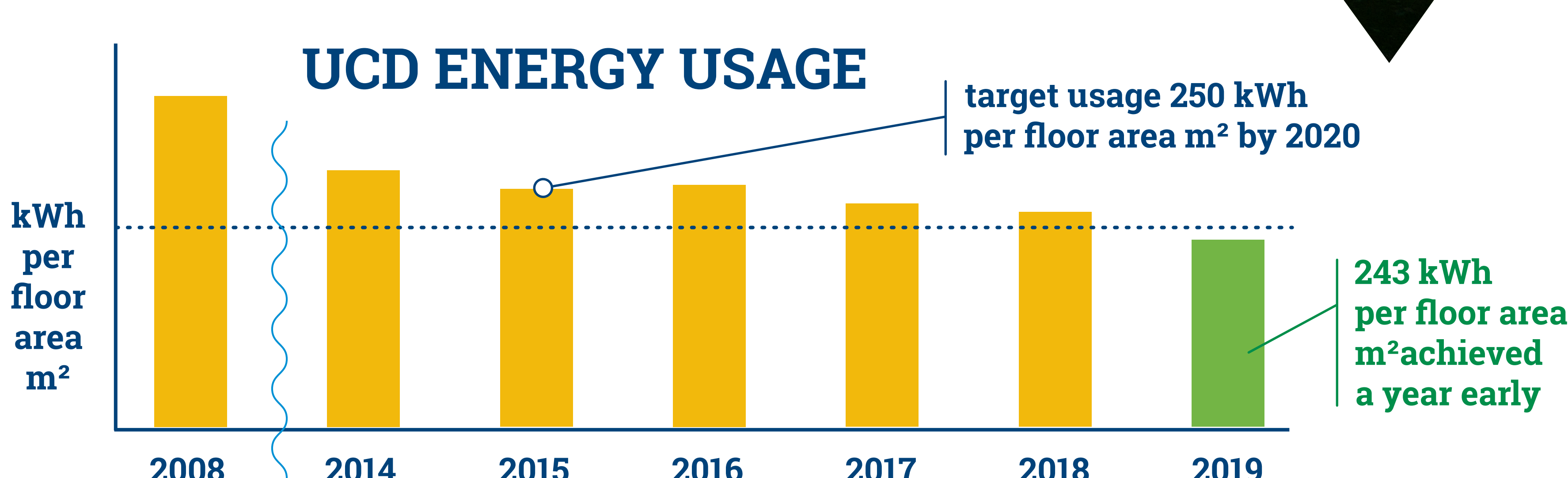


We set an energy usage target of **250 kWh per m² by 2020**

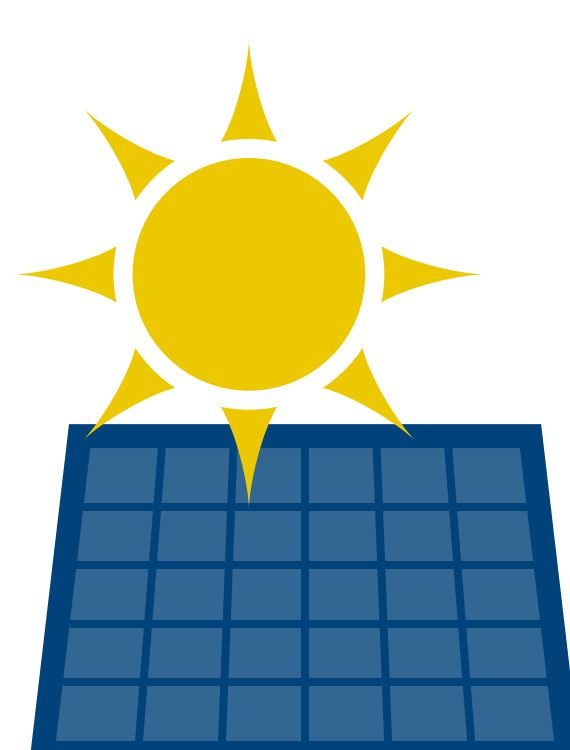
At the end of 2019 we had achieved **243 kWh per m²**

Based on 2019 energy consumption, we have achieved a **35.5% improvement since 2008**



These figures include our Belfield and Blackrock campuses and Lyons Research Farm.

How did we do it?



289.05kW of solar photovoltaic (PV) panels generate some of our own electricity on the on Belfield, Blackrock and Lyons Farm.

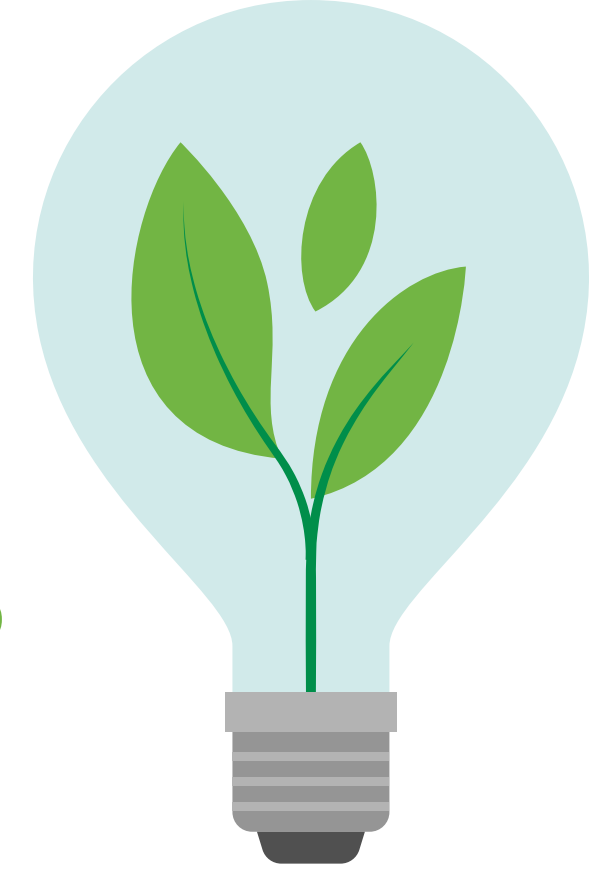
In 2019 our solar PV panels produced enough electricity to power the equivalent of **50 Irish homes** for a year!



Refurbishment of the Newman and Tierney buildings, including insulation and window upgrades have significantly reduced heat demand and improved comfort levels

Upgrading lighting to high-efficiency LED has decreased associated electricity consumption by up to

50%



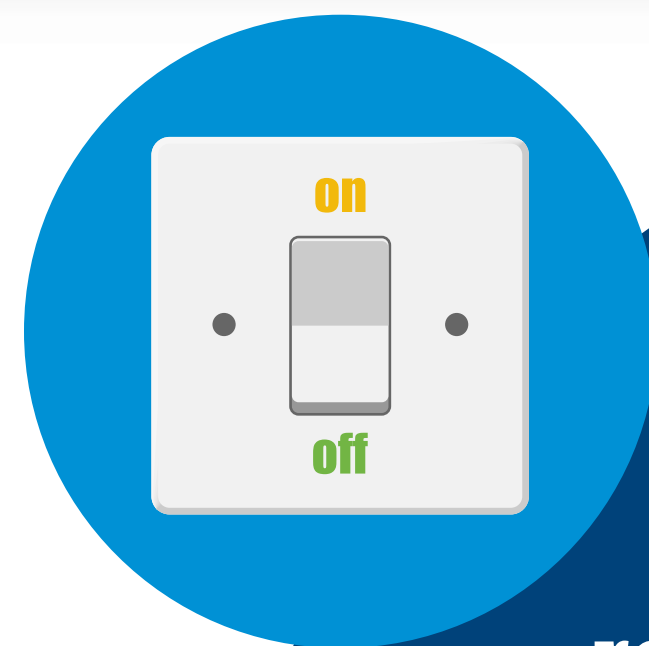
Our UCD Community, aka YOU! By taking part in our Switch Off before you leave campaign, we have seen a significant reduction in energy!



UCD is certified to ISO 50001 and carries out a full energy review each year as part of our Energy Management System (EMS).

COVID 19 SHUT-DOWN

Estate Services have been working hard to ensure that energy is not consumed unnecessarily during this time. Each building's energy consumption has been monitored carefully, heating has been switched off where not needed and a **full-shutdown of non-essential services** has taken place.



Since the start of Covid 19 shutdown, we have reduced our MWh consumption of electricity by over 3,000MWh and gas consumption by over 5,000 MWh. This has resulted in a reduction of over 2,000 tonnes of emitted CO₂.

If you are studying or working from home here are some major energy savings

- ✓ Position furniture in a way that makes the most of natural lighting.
- ✓ Only boil the water you need - any extra and you're wasting time, money, and valuable energy.
- ✓ Check if your device has an energy saving mode.
- ✓ Defrost your fridge and freezer to ensure it runs efficiently.
- ✓ Use lids while cooking with pots and pans.
- ✓ Replace failed light bulbs with energy efficient options (LED). Select the lowest wattage bulb needed to light the room/area.

In UCD we have an Energy Team, who work towards sustainable energy solutions. This means conserving energy and finding more sustainable low carbon energy sources.



2030 TARGETS

Now that our 2020 targets have been achieved we are setting our sights on 2030...



Building on our success, we are targeting a 50% improvement in energy efficiency by 2030 and a 30% carbon emissions reduction.

We are currently planning how we achieve these targets but it will include:

- ✓ Higher levels of renewable energy
- ✓ Upgrading building fabric (insulation and windows) in our existing buildings
- ✓ Smart metering and controls
- ✓ Near Zero Energy Building and Energy Efficient Design standards for new buildings

Find out more about UCD's Energy Management

CLICK HERE

SMART CAMPUS

Did you know UCD was the first University in Ireland to install an energy monitoring and BMS (Building Management System) in its buildings. This smart technology began as a student project and has grown into an extensive system that remotely monitors and controls heating, lighting and ventilations systems across the campus.

NEW BUILDINGS

All new buildings and major renovations in UCD are now designed and constructed to Near-Zero-Energy Building (NZEB) standard which require high-levels of renewable energy, insulation and air-tightness as well as a focus on natural lighting and ventilation wherever possible.

If you have any tips on how to work/study sustainably from home tag us on Instagram and Twitter!

