



Rialtas na hÉireann
Government of Ireland

Reduce your use – winter tips for hotels.

www.seai.ie

Agenda

1. Introduction and context
2. Reduce your use – Winter tips for hotels
3. Steps for longer term energy efficiency and emissions reduction
4. SEAI grants and supports

Introduction and context

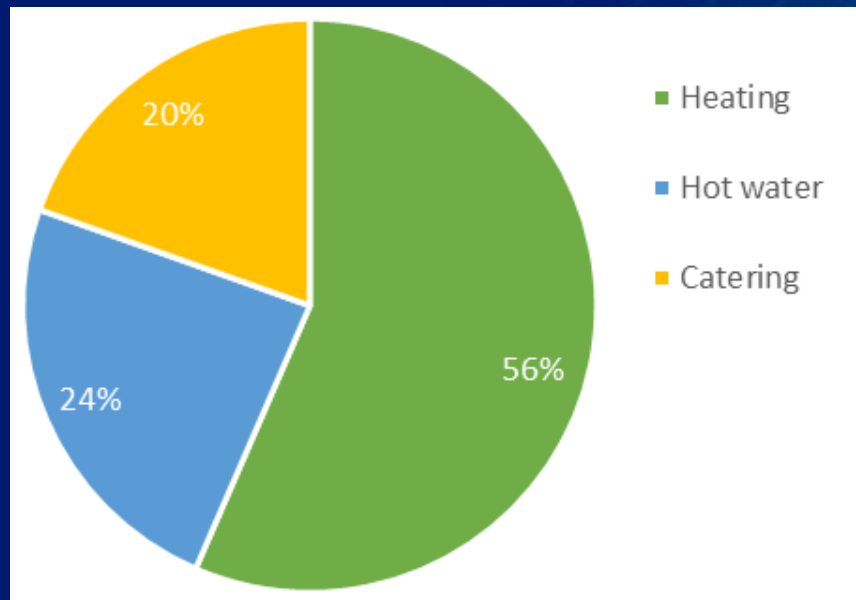
- 2022 - energy security and energy price impacts
- Strategies that can help protect the business from energy price impacts
 - Reducing energy demand
 - improving energy efficiency
 - using renewable energy
- SEAI provide supports and advice for
 - Energy efficiency
 - Renewable Energy



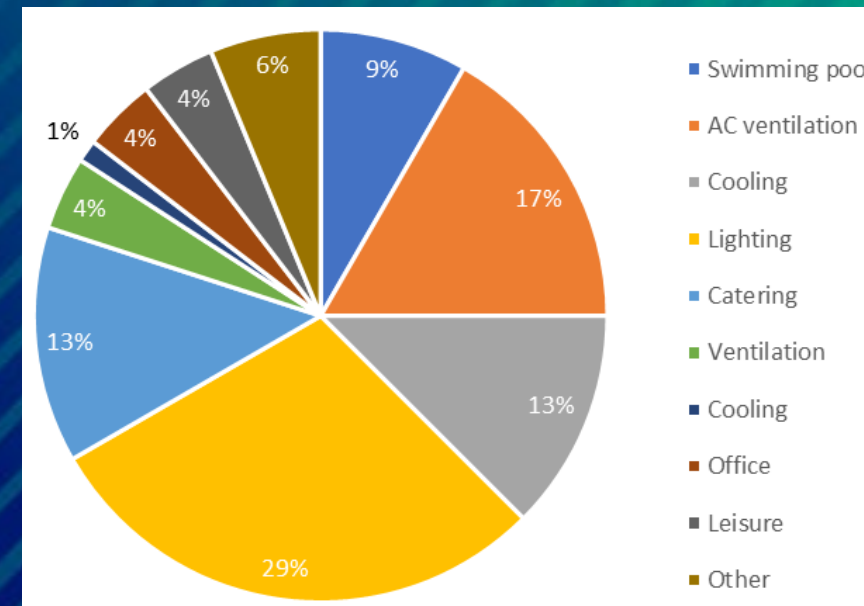
Reduce your use – winter tips for hotels

Energy usage in a typical Hotel

Heating Fuel (70%)



Electricity (30%)



A 110 bedroom Hotel might use 1000 MWh from fossil fuel and 400 MWh from electricity. €150,000 in 2021 could be €300,000 in 2022.

Heat Tips

1. Reduce **heating temperature setpoints** to 19°C in staff and guest areas. Turn off heating in vacant spaces.
2. Increase **Air Conditioning setpoint** to 24 degrees or higher.
3. Make **sure timers are set correctly** - consider variations in working hours on weekends and holidays, when setting controls.
4. Service **boiler regularly** to ensure efficient operation.
5. Identify and **seal draughts, improve insulation** where possible, ensure external doors shut automatically.
6. Confirm with service technician that **condensing boiler is condensing**, and **all timers and controllers are correctly set**.

80% of fossil fuel
and 56% of total
energy goes into
heating

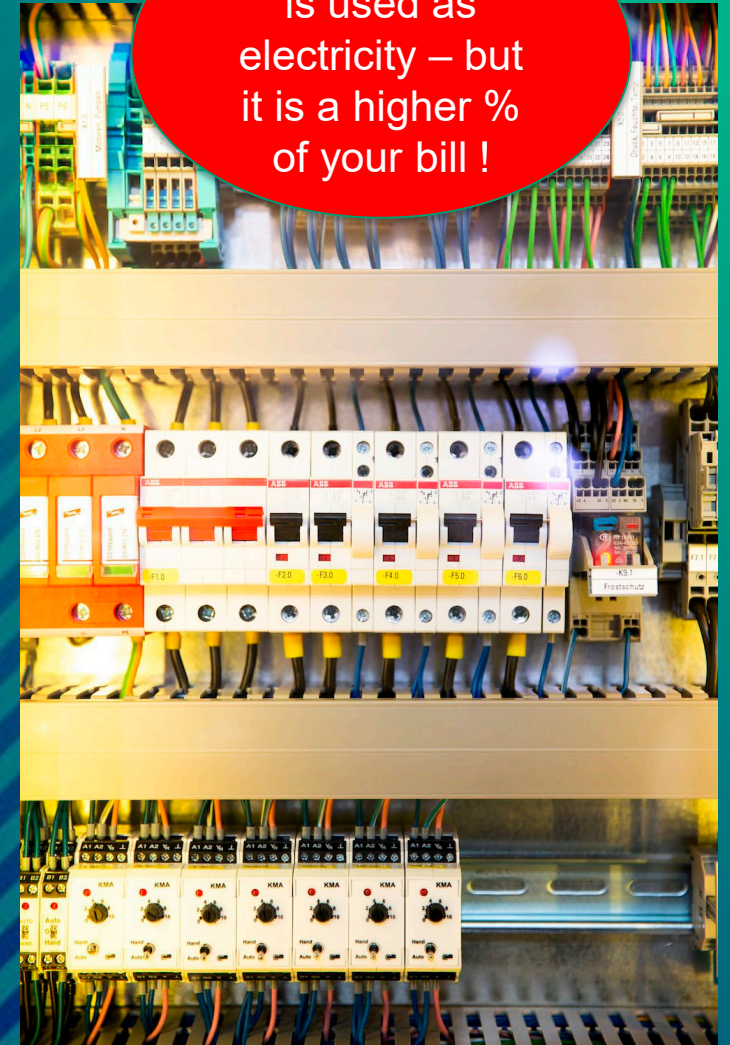


1 degree can equate to 10% saving.

Electricity Tips

1. Ensure **best electricity tariff** available, look at your use and compare suppliers.
2. **Switch off** equipment when not in use.
3. Shift highest possible of your energy use **outside of peak hours**.
4. Consider **Solar PV** to generate renewable electricity.
5. Watch out for any **LPFS (low power factor surcharge)** or **reactive power charge** on your bills.

30% of energy is used as electricity – but it is a higher % of your bill !



Lighting Tips

1. Ensure **lights are switched off** when not needed
- install motion sensors in infrequently used areas
2. Maximise the use of **daylight** and install daylight sensors in areas that automate lights to turn off or dim in daylight.
3. **Reduce** lighting levels where possible. Remove light fittings if possible – but stay safe!
4. **Reconsider** external and feature lighting needs.
5. **Replace** failed or inefficient light bulbs with LEDs.

Lighting, at 29%, is the biggest use of Hotel electricity.



Other Equipment Tips

Do you have a Building Management System (**BMS**)?

1. Check for and activate **eco-mode**
2. Ensure appropriate **motor size** for their job,
3. Survey for **leaks or hotspots** in any air, steam, or hot water systems. Fix any gaps/damage in pipe **insulation**
4. Ensure that energy intensive equipment is **routinely maintained** as per manufacturer guidelines.
5. Employ **energy monitoring and an energy management system**
6. Watch that kitchen! It could be 15-20% of your total energy.

Your Facilities lead can facilitate change!
A BMS diagnostic deep dive can deliver 10-20% saving



Steps for longer term energy efficiency and emissions reduction

5-steps towards a low emission business

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Steps towards energy efficiency

- 1 Understand your energy use
- 2 Create an energy action plan
- 3 Complete an energy audit
- 4 Invest in upgrades and renewables
- 5 Monitor, track and report

REDUCE
20
YOUR USE

<https://www.seai.ie/business-and-public-sector/small-and-medium-business/steps-to-energy-efficiency/>

SEAI grants and supports

Wide range of grants and supports available at -

<https://www.seai.ie/business-and-public-sector/business-grants-and-supports/>

Understand your energy and create an action plan	Complete an energy audit	Invest in energy efficiency and renewables
<p>SEAI Energy Academy</p> <p>SEAI Energy Management Training</p> <p>Climate Toolkit 4 Business</p> <p>SME Guide to Energy Efficiency</p> <p>SME Energy Management Guide</p>	<p>SEAI Support Scheme for Energy Audits</p>	<p>Non Domestic Microgen Scheme</p> <p>Community Energy Grants</p> <p>SEAI EXEED Grant</p> <p>Support Scheme for Renewable Heat</p>

Why switch to Renewable Heat?

More than 50% of total Hotel energy demand is for heating purposes and is currently being met by fossil fuels (mainly oil and NG).

Switching to renewable heating delivers a high reduction in carbon emissions.

The Support Scheme for Renewable Heat (SSRH) gives a financial incentive to replace fossil fuel heating systems with heat pumps or biomass or biogas heating systems.

SSRH is Suitable for any Hotel using fossil fuels!

How does the SSRH work?



A hybrid scheme of

Investment aid

A grant of up to 30% for

- air source heat pumps
- ground source heat pumps
- water source heat pumps

Operational aid

based on eligible heat use

- a tiered tariff (reduces as heat output increases)
- ongoing quarterly payments for 15yrs
- for biomass & anaerobic digestion heating systems

Case studies

Randles Hotel – turning a Victorian building into a carbon-free hotel

Long term investments into reducing carbon footprint and minimising energy usage

<https://www.hotelnews.ie/articles/2022/randleshotel/spotlight-on-sustainability-6>

Radisson Blu, Letterkenny - SSRH with biomass

<https://www.youtube.com/watch?v=wCCFwrzAokQ>

Q & A

SEAI can help you to use less and use renewable.



Find out more at www.seai.ie

