

Law Society of Ireland: How best to save energy in your office

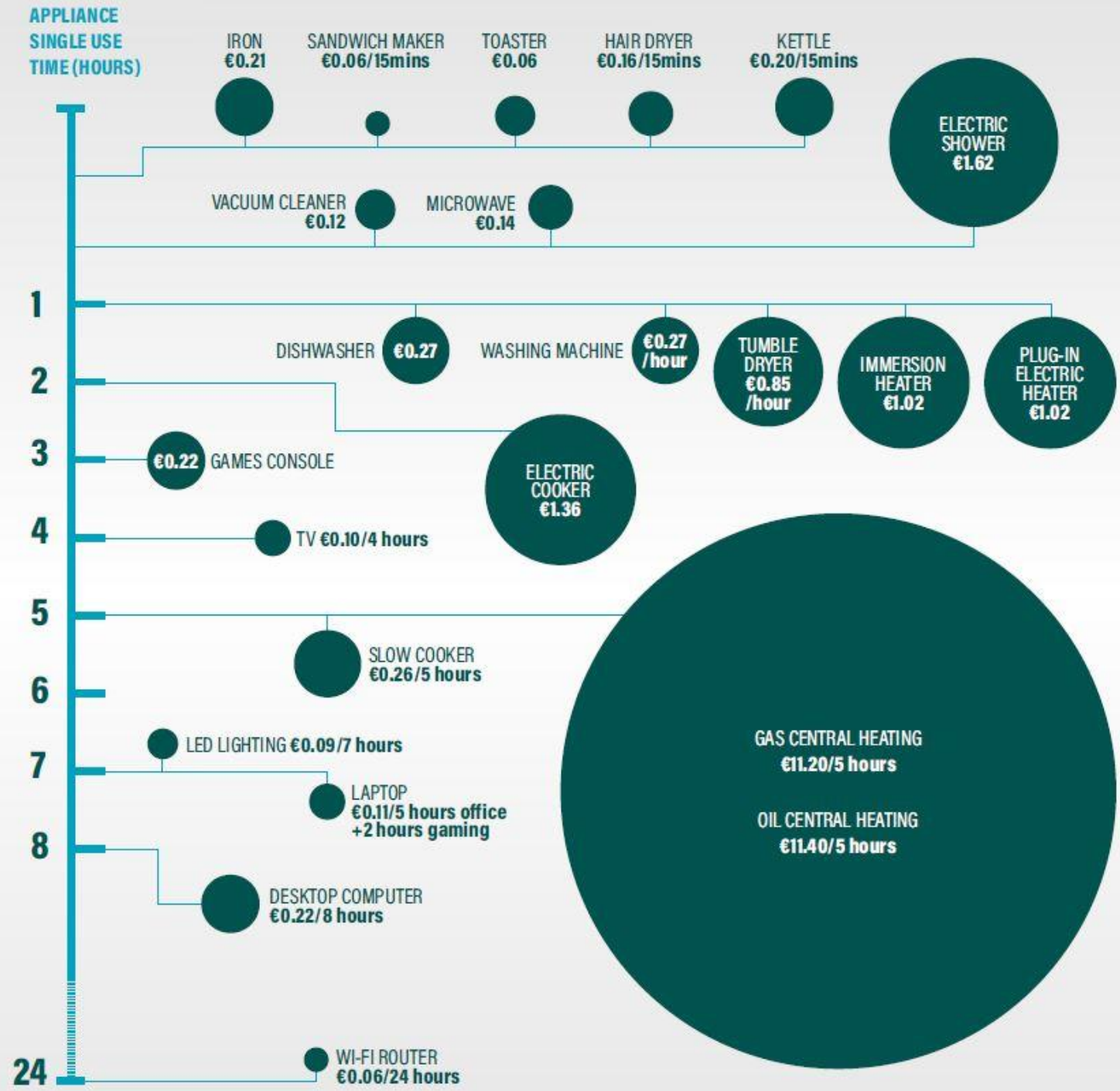


22nd February 2023

Eóin Cullen-Programme Executive

Understanding your Energy Use







REDUCE
YOUR
USE

Energy efficiency is using less energy to achieve the same results.

- Energy efficiency first: the energy you don't use is the cheapest.
- Save up to 10% on your energy bills by implementing no-cost and low-cost energy efficiency measures.

Reduce Your Use: **Heating and Cooling**



- Air conditioning can double your energy bill
- Heating costs increase by 8% for every 1°C increase
- 30% of heating costs are preventable
- ✓ Turn off AC and open windows
- ✓ Cooling set to 24 °C
- ✓ Reduce heating by 2°C could save €160 on a €1,000 heating bill
- ✓ Heating set to 19°C
- ✓ Seal draughts and fit spring-loaded door closures

Reduce Your Use: **Appliances and Lighting**



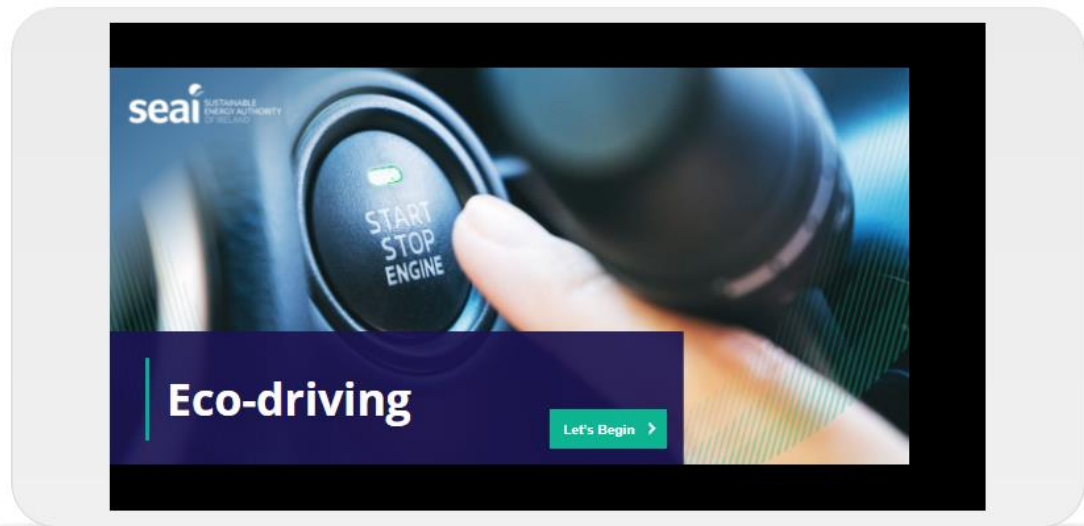
- Lighting can account for 40% of a building's energy use
 - One external flood light running for 12 hours every night can cost €250 a year to run
 - 46% of a business's electricity is used outside of operating hours
- ✓ Get everyone involved, label switches "Switch off"
 - ✓ Maximise use of natural light through room layout
 - ✓ Consider installing lighting sensors
 - ✓ Find your big energy users and check settings and operating hours
 - ✓ Switch off, use eco settings and power saving mode

SEAI Tips for Business

- SEAI have produced winter tips for reducing demand, saving energy and saving money
- These are quick wins across key areas
 - Heat
 - Lighting
 - Electricity
 - Manufacturing and Equipment
- Available for any organisation who wants to share with network
- <https://www.seai.ie/blog/five-ways-to-cut-back-thi/>



Energy Academy



- Free e-learning platform
 - Encourage sustainable energy use behaviors
 - Increases motivation and confidence to reduce energy use in the workplace
-
- Energy and Climate Change
 - Business Energy Efficiency
 - Office Energy Efficiency
 - Eco-Driving
 - Lighting Efficiency
 - Decarbonisation for Business
 - Introduction to Electric Vehicles
 - Introduction to Solar PV
-
- Join over 5,000 learners:
<https://www.seai.ie/energyacademy/>

Reduce Your Use: **Create an Energy Action Plan**

- Introduction to Energy Management Training: Create an Energy Action Plan
- Takes you through the six steps to creating an energy action plan
 1. Create the business case for energy management
 2. Assign an energy coordinator
 3. Write your energy statement
 4. Track your energy consumption through bills and meter readings
 5. Identify potential areas to save energy
 6. Create your energy action plan
- Check out the SEAI Eventbrite page for the next online workshop – Thursday 2nd March.



Climate Toolkit 4 Business



What is the Climate Toolkit 4 Business?

- A carbon calculator tool and climate action plan generator aimed at Irish SMEs
- Launched by Tánaiste & Minister Ryan December 2021
- Provides SMEs with practical ways to take action to reduce emissions
- Increase resilience, remain competitive in low-carbon economy of future
- Developed by DETE & DECC with input from state agencies and business representative bodies



Climate Toolkit 4 Business


Start your zero carbon journey

Tackling our carbon emissions is good for our planet, our economy and your business. This Toolkit provides you with practical ways to start taking action.

- How the Toolkit works
- What you will need

[GET STARTED](#)

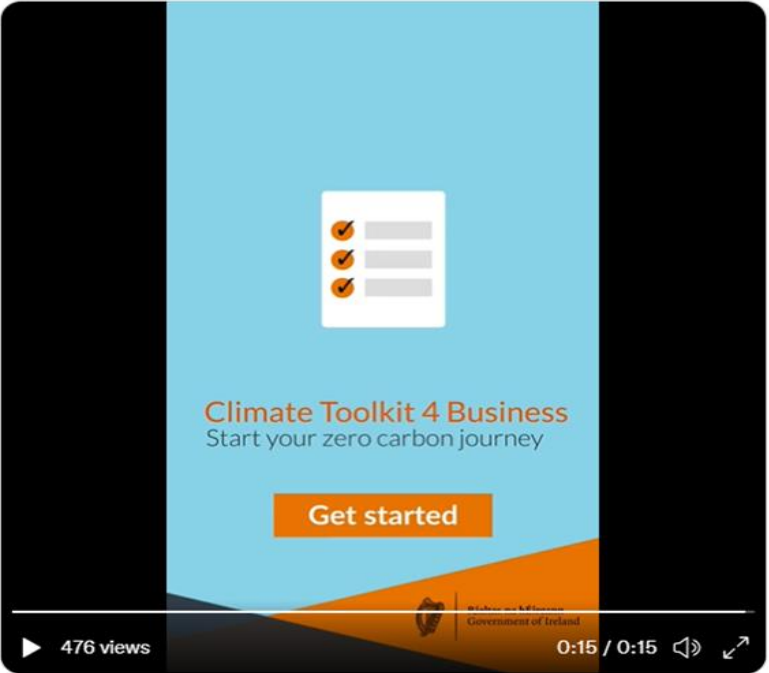
Next steps

 Department of Enterprise, Trade and Employment ✓
@DeptEnterprise

Rising fuel prices can mean rising business costs 📈

Engagement with the [#ClimateToolkit](#) can help you run your business more efficiently, saving you money.

Find out how at the link below
[climatetoolkit4business.gov.ie](https://www.climatetoolkit4business.gov.ie)



9:00 AM · Apr 1, 2022 · Twitter Media Studio

- Start your zero carbon journey at www.climatetoolkit4business.gov.ie
- Register with the Toolkit
 - to track your progress reducing your footprint, and
 - to share your action plan with colleagues and customers
- Follow our ongoing communications campaigns
 - Govt Reduce your Use campaign
- Engage with the supports offered by SEAI, LEOs, Enterprise Ireland, IDA and others

Support Scheme for Energy Audits (SSEA)



How to plan?

- Complete an Energy Audit - Support Scheme for Energy Audits (SSEA)
- Offers SMEs a voucher of €2,000 to get an energy audit with an SEAI Registered Energy Auditor.
- Open year round for applications.
- To be eligible, your company must:
 - Be a Small or Medium Enterprise
 - < 250 employees
 - Turnover < €50M or balance sheet < €43M
 - Spend at least €10,000 on energy per year
 - Be tax compliant
- Find out more and apply online:
www.seai.ie/sme/energyaudits



SME Energy Audit trends

Sectors

- **70% of Audits are in the;**
 - Wholesale and Retail Trade
 - Manufacturing
 - Accommodation and Food Services
 - Agriculture, Forestry and Fishing

Top recommendations

- Solar PV
- LED lights
- Energy management, monitoring and metering
- Refrigeration upgrades
- Renewable Heat

Small sized office building

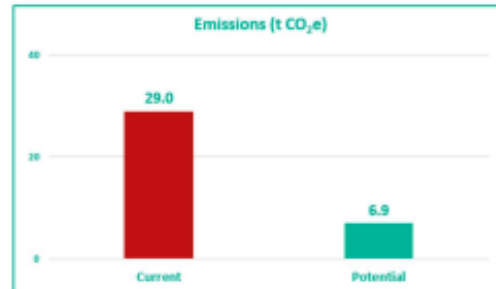
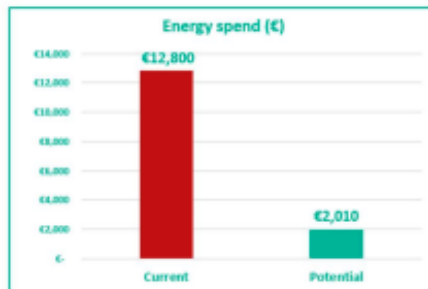


Energy performance of your business

	Current	Potential
Energy management	★★	★★★★
Building fabric	★★	★★★
Building services	★★	★★★★
Manufacturing & processing equipment	★★★	★★★
Manufacturing & processing controls	★★	★★★★
Use of renewables	★	★★

Compare your organisation's current and potential energy costs, before and after implementing the recommended actions identified below:

Compare your organisation's current and potential energy costs, before and after implementing the recommended actions identified below:



Completing the below recommended actions could help reduce your organisation's emissions by 76% and annual energy spend by €10,790:

SSEA Energy Audit Report



Action	Energy saving per yr (€)	Emissions reduction per yr (t CO ₂ e)	Cost of action (€)	Payback period (years)	First step
Staff energy management training	640	1.72	1000	2	Energy Management Training
Install solar photovoltaics	2085	1.09	7200	3	Accelerated Capital Allowance
Insulate the walls and roof	1335	3.71	20000	15	Accelerated Capital Allowance
Upgrade lighting to LED	1470	1.91	7000	5	Accelerated Capital Allowance
Upgrade heating controls	420	1.16	2500	6	Energy Management Training
Install heat pump	4175	11.61	10000	3	Energy Academy
Energy Monitoring equipment	445	0.58	500	1	Accelerated Capital Allowance
Total €	10,570	21.77	€ 48,200		

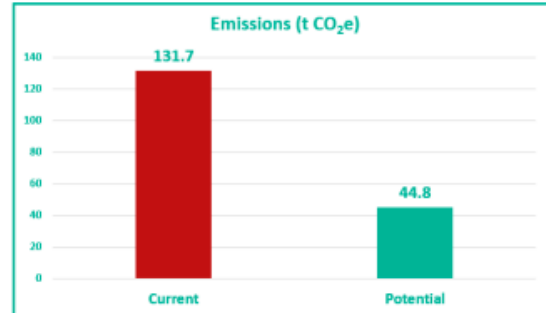
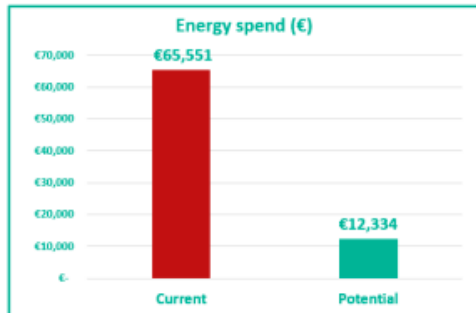
Medium Sized Office Building



Energy performance of your business

	Current	Potential
Energy management	★	★★★★
Building fabric	★★	★★★★
Building services	★★	★★★★★
Manufacturing & processing equipment	★★	★★★★
Manufacturing & processing controls	★★	★★★★★
Use of renewables	★	★★★★

Compare your organisation's current and potential energy costs, before and after implementing the recommended actions identified below:



Recommended actions that will help reduce your organisation's emissions by 66% and annual energy spend by €53,217.

SSEA Energy Audit Report



Action	Energy saving per yr (€)	Emissions reduction per yr (t CO ₂ e)	Cost of action (€)	Payback period (years)	First step
Install PV on roof	8284.8592	7.08	30000	3.62	Potential support available through the Communities grant
Upgrade lighting to LED equivalents throughout	5376.3448	4.59	20000	3.72	Potential support available through the Accelerated Capital Allowance Scheme
Replace boiler with modern high efficiency boiler	8659.4976	28.28	30000	3.46	Potential support available through the Communities grant
Upgrade boiler controls	5772.9984	18.86	5000	0.87	Potential support available through the Energy Efficiency Obligation Scheme
Install a Building Energy Management System with motorised TRVs on central heating radiators	14538.811	24.94	35000	2.41	Potential support available through the Communities grant
Consolidate control of Split DX systems in debt collection area	759.8	0.65	1000	1.32	Potential support available through the Energy Efficiency Obligation Scheme
Increase temperature of CRAC unit in comms room	759.8	0.65	0	-	Potential support available through the Energy Efficiency Obligation Scheme
Total	€ 44,152	85.05	€ 121,000		

Non-Domestic Microgen Scheme (Solar PV) Background

- DECC announced the new Micro-generation Support Scheme (MSS) 21 December 2021.
- A grant of max. €2400 (4kWp/6kWp max)
- Size under scheme set at a maximum 6kWp (Approx. 16 Panels, 25m²)
- No BER required and available to all pre-2021 buildings.
- SEAI launched the scheme 22 September 2022
- Separate to Domestic SPV Scheme.
- Application process, grant offer and payment process very similar to the Domestic SPV Scheme.
- Clean Export Guarantee (CEG) tariff, for any exported electricity (subject to supplier rates)

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 and 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>SEAI Energy Audit Compliance Scheme</p>	<p>Non Domestic Microgen Scheme</p> <p>Community Energy Grants</p> <p>Support Scheme for Renewable Heat</p> <p>SEAI EXEED Grant</p>

Thank You!
Any Questions?

Queries: business@seai.ie