

### What we will Cover ...

Why is water conservation important for your business?

Step-by-Step Approach to establish:

- 1 How much water is used in your business
- 2 Where is water used in your business

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- 3 What actions you can take to save water (and money) in your busines?
- 4 How you can develop an action plan to reduce water use



# Steps to water Savings 1 Appoint a Green Team or Green Champion 2 Calculate Annual Units & Cost (Worksheet 1) 3 Establish yourbenchmark 4 Statt monitoring Monthly Units & Cost (Worksheet 1) 6 Create your Water Saving Action



# Water Conservation

Why is it important for your business?

TEP TOURING CONSIDERED



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# **Top line**

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- About 71% of the earth's surface is made up of water
- 97.5% of all that water is saltwater.
- Of the remaining 2.5%, the majority is permanently frozen or otherwise unavailable for use.
- Only 1% of earth's water is available for our use.
- There has been a 600% increase in global demand for water over the last 100 years.
- A growth in demand of 50% globally is anticipated up to 2030.

# Top line facts - NI

- Brushing your teeth with the tap running can use 6 litres of water per minute
- Around 30% of water in an average household is used to flush the toilet

A bath uses 80 litres of water. In 5 minutes, a standard shower uses 35 litres of water and a power shower uses 90 litres of water

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TED TOURS











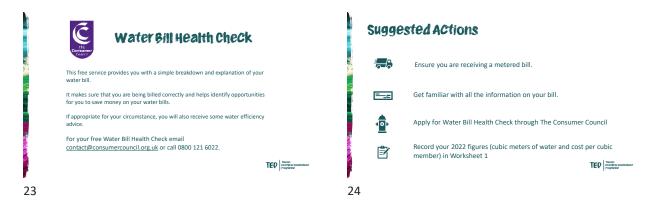














# Why benchmark?

Benchmarking allows you to track your own performance over time

Benchmarking allows you to compare your performance against others in the industry

TEP Tourist











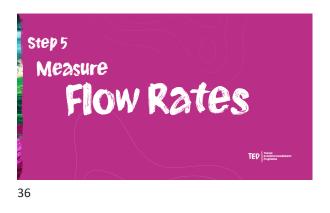
# Northern Ireland Water NI Water aims to read the meter at least twice a year. Guarantees that one bill per year is based on a meter-reading. Metered customers usually receive a bill every 6 months.

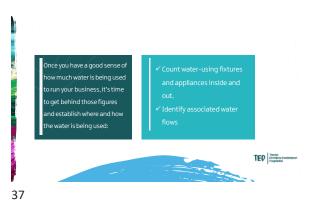


# Why is it recommended to read your meter?

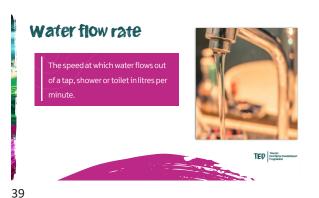


# Sub-Meters businesses or where certain departments use large amounts of water.









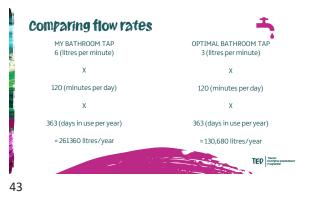


# Calculate flow rate taps and showers

- $\checkmark$  Open tap or shower at full force.
- ✓ Let it run for 10 seconds into a large bucket.
- $\checkmark$  Measure how much water is in the bucket.
- ✓ Multiply by 6 to get the litres used per minute.



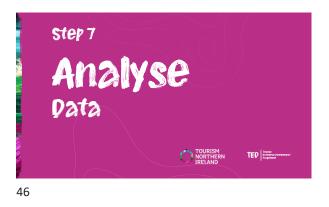






## Conduct a Water Audit





Your Flow Rate Analysis and Walkaround Audit will give you a clear picture of your water use profile and will highlight priority action areas





# Leaner & Greener Wisdom

First take the actions with the lowest cost and highest impact





# Áine Martin

Experiences from Ireland's First Carbon Neutral Hotel

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TED Designation
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- 17 bedrooms
- 9 holiday homes
- Eco Wedding Venue (capacity 300 guests), hosts 130 weddings per year-generally 2 day events
- Home of Doolin Folk Festival & Doolin Hedge School Festival
- Glas Restaurant
- Fitz's Pub & Snug Bar
- The Attic Music Venue
- Stonewall Café & Pizzeria
  120 employees







# Training staff at induction and regular training sessions

Every employee who starts working in Hotel Doolin receives a full induction day where the Green Hospitality efforts and policies are clearly explained amongst other Hotel information.
 The thanager on duty for AM and PM shifts is responsible for ensuring water saving measures are being carried out in all areas and spot checks are to be done too.



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# How to achieve carbon neutral certification?

We worked with the Green Hospitality Programme - the national resource for sustainable and responsible tourism in Ireland recognised by governmental authorities including Fáilte Ireland, Tourism Ireland, Discover Ireland and the Sustainable Energy Authority of Ireland (SEAI). Certification included several visits, creating a five-year energy efficiency plan and finally being assessed and in our case, awarded the Carbon Neutral12 GREENMark certification. Hotel Doolin is now the first premises in Ireland recognised as having achieved this certification Green Team Sub-teams: - Water - Energy - Waste - Green Purchasing / Corporate Social Responsibility



Water Consu	mption	& Resu	alts
WATER	2019	2020	2021
Food Covers & Guests	273,160	130,448	201,80
Total (cubic metres) per annum -43% saving in 2021 v's 2019	6,296 (23L per guest)	2,878 (22L per guest)	3,578 (18L p gues



### **Establishing Baseline**

Read water meter at the same time every day. Suggest morning time as it can be the first job of the day and record in a book, day by day, month by month.

 To calculate the total usage, you deduct the last day of the month from the first day of the month. Water is measured in cubic meters.
 It is important that the meter is read every day.



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# Shower & Tap Aerators

- Replacing your shower head and tap aerators with new, water-saving ones will bring you a return on investment after a few months of use.
- Also reduces energy usage as less water is required to be heated.
- Reductions of up to 55% can be achieved without affecting guest comfort.



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### **Changing Behaviour**

Suggest actively changing behaviour on a weekly basis by engaging and encouraging the team to reduce their carbon footprint. This training and education hugely increased their positive effects on the activities and achieving the fundamental targets that are set in place.

- Examples include:
- Refraining from defrosting food with running water.
- Training Kitchen porters not to leave taps running. Knee taps are a good option.
- Standard operating procedures for cleaning bedrooms.
- Fix leaks and dripping taps / equipment.

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### Additional Steps

- Urinals in bathrooms flush every 2 hours and are spot checked regularly.
- Operate a towel & linen re-use programme in the bedrooms to reduce amount of laundry.
- Incentivise the guests to not have their room serviced by giving them a 5 euro bar voucher and there has been a very positive uptake on this offering.

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- Start if you haven't already as it is the responsible thing to do and also a very positive exercise for the team, guests, suppliers and all stakeholders involved in the business.
- Get your team involved.
- First step is to start recording and monitoring your water usage and then setting a target for what you want your business to achieve in terms of a reduction.
- Train your team from Day 1 about reducing water consumption.
- Hippo Bags / Aerators / Harvesting Rainwater
- Training staff to be aware of reducing water consumption. Get their ideas and suggestions.





	WATER SAVING	SACTION PLAN	1	
No	Action	Responsibility	Deadline	Notes
	Establish flow rates of all toilets in the building and enter into the XX spreadsheet	Maintenance Manager	30.01.2023	

# Leaner & Greener Wisdom

It's only an action plan if it is clear who has to take the action and when that action has to be taken by









It is your responsibility to check for leaks.

Once the water enters your property, you are responsible for it.

TED Tourist Development

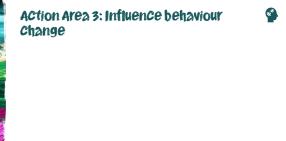
## Action Area 1: Fix Leaks

### Mains Leak: Overnight Test

- ✓ Select a time when your business has minimal or no activity.
- ✓ Take a meter reading.
- $\checkmark\,$  Wait 3 hours and take the meter reading again.
- ✓ If there is a substantial difference, you have a leak.
- ✓ Call a plumber.
- ✓ Contact Northern Ireland Water to report leak and find out if they can repair.
  TEP Them representation

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TED Termingenergy



If a kitchen porter leaves the Pot Wash Sink Tap (20 lt/mn) on with no stopper in the sink for 5 minutes every hour, 1,700 litres per day are wasted, 11,932 per week, 51,708 per month or 620,500 per year – Costing c. €1,800 pa or if its hot water up to €10,000 per annum

TED Tourses

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Action Area 3: Change behaviour

- ✓ Start with yourself!
- $\checkmark$  Invest in communication, training and monitoring
- $\checkmark$  Train staff to set equipment to water-saving and energy-saving cycles
- $\checkmark$  Invite ideas for water conservation from your team
- ✓ Recognise and reward great suggestions or actions and the impact of staff actions on savings

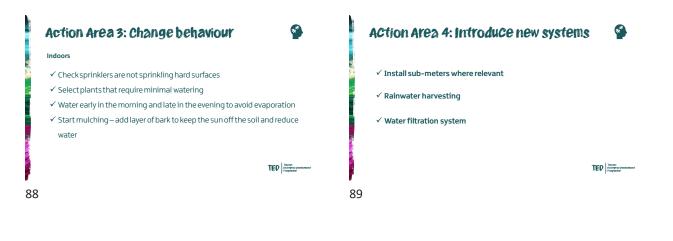
TED Tourist Development Programme

# Action Area 3: Change behaviour

### Indoors

- $\checkmark\,$  Choice of wash cycle in dishwashers and washing machines.
- ✓ Ensuring full loads
- $\checkmark$  Minimising water used when cleaning.
- $\checkmark$  Use of alternative cleaning products that don't require rinsing
- $\checkmark$  Use of sink stopper when rinsing or washing.
- $\checkmark$  Avoidance of tap-running in advance of or after cleaning.

TED TOURNE Programme







Save the Date
Tuesday 7th February, 10.00-11.00am         • Leaner & Greener Waste Management
Tuesday 14 <sup>th</sup> March, 2.00-3.00pm • Leaner & Greener Food Waste Webinar

# Questions Comments

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