

How to reduce water consumption in your business

FAQs

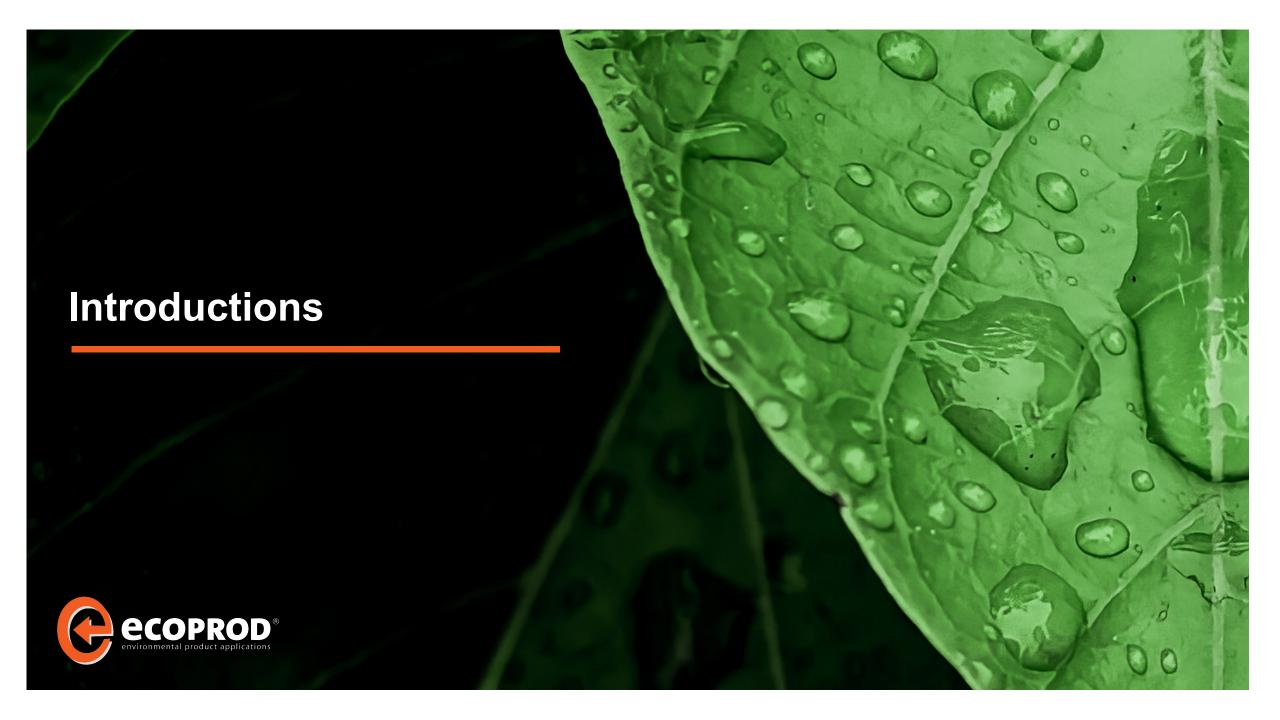
- + Is this session being recorded? Yes, we will send a link to watch and share after the session.
- + Can I get a copy of the slides? Yes, we will send a link to download them after the session.
- + How can I ask questions? All lines are muted so please use the Q&A function, if we run out of time we will follow up with you separately.



Agenda

- Introductions
- Why saving water is so important
- The likely future impact of water shortages on businesses
- The three pillars of water saving
 - Use less water how water saving technology can help you use less water throughout all areas of your operations
 - Waste less water advice on how to reduce water wastage by spotting leaks and floods before they have an impact as well as opportunities for behavioural change within your organisation
 - Reuse and recycle your water how rainwater harvesting and greywater recycling can impact on your overall water usage
- The importance of having a water management strategy and where to start with developing one
- How Ecoprod can help you use less water
- Questions





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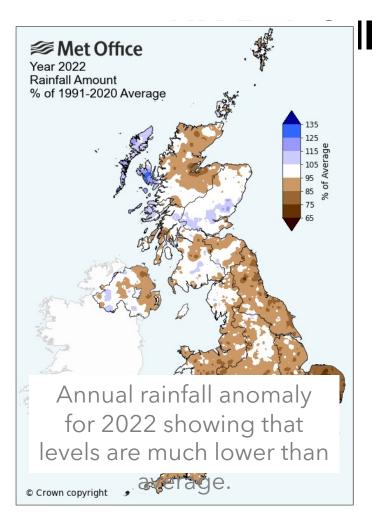


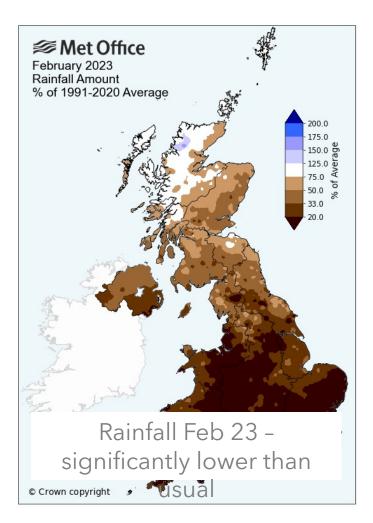


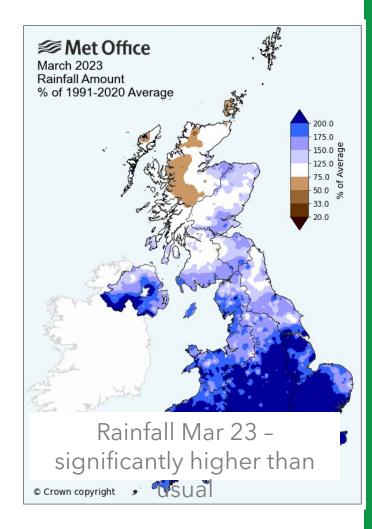
Why water saving is important

- + We are already seeing the impact of water shortages due to climate change in the UK
- + Daily use needs to be reduced from 140 litres per person to 100 litres per person or lower
- + Cutting water use also saves you money and reduces your carbon footprint as well as enabling you to demonstrate your commitment to sustainability
- + There are significant energy savings associated with reduced water use (pumping, heating, cooling)











Water saving pillar one: use less water



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Urinals and toilets

- + Switching to waterless urinals will save you up to 100,000 litres of water per urinal per year
- + Waterless urinals are also easier to clean and maintain so your costs reduce in those areas too
- + Switch toilets to dual flush cisterns
- + Regular maintenance is important leaking toilet cisterns can waste between 400-600 litres of water per day



Water saving taps

- + Taps left running is one of the most common sources of wasted water in organisations
- + Sensor taps ensure that water is only running when it is needed
- + They also offer improved hygiene and cleanliness
- + Switching to sensor taps also cuts your energy usage as you need less hot water
- + Using sensor taps can reduce water usage by up to 70%



Showers

- + Encourage staff and customers to limit the time they spend in the shower
- + Install water efficient shower heads which can cut water use by up to 40%
- + If you're refitting your shower rooms then you can install purpose built water saving showers
- + Reducing shower flow is one of the most effective energy saving measures
- + Electric point of use heating showers are the most water and energy efficient



Kitchens

- + Encourage filling sinks for washing up rather than leaving taps running
- + Move to push or spray taps if sink is just used for rinsing cups
- + Look at the different dishwasher programs to ensure you're using the most efficient one
- + Point of use water heaters are much more efficient in terms of energy and water usage
- + Think about installing plumbed-in water coolers
- + Use kitchens to promote your messaging to staff



Washroom Savings

- + Waterless urinals can save 100,000 litres of water per urinal per annum
- + Reduced flow taps can save up to 70% of water usage
- + Check the programming of your sensor taps to reduce flow time
- + Electronic showers can also hugely reduce water use by reducing the flow and the automatic flow times
- + Install cistern displacement devices or dual flush retrofit devices in toilets



Changing people's behaviour

- + The best way to save water is by encouraging simple behaviour changes amongst your staff
- + Create a water saving culture in your organisation
- + Run a staff awareness campaign
- + Encourage staff to submit their water saving ideas
- + Talk about your water saving policies and procedures in staff induction sessions and team meetings
- + Advice applies to your supply chain, visitors, customers



Water saving pillar two: waste less water



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Smart leak detection systems

- + Leaking taps and toilets are one of the most common causes of wasted water
- + A leaking toilet wastes between 215 and 400 litres of water per day / cost from £300 up to £6,000 per year
- + The Aguardio Leak Sensor detects such water leaks by measuring the temperature difference between the water inlet pipe temperature and the ambient room temperature
- + Smart no-dig leak detection and repair systems from Aquapea



Change behaviour

- + Aguardio Shower Sensor encourages people to take shorter showers
- + Shower duration was found to be 13% shorter when a real time shower clock is visible
- + Simple measure such as posters and stickers can reduce wastage
- + Internal newsletters and surveys can create a water saving culture
- + Posters with details of how to report leaking taps etc can help reduce wastage



Intelligent water management systems

- Intelligent water management system monitors water usage within your building 24/7 using machine learning tools
- + It learns about water usage patterns in your organisation and immediately alerts you to any potential problems
- + It can help you spot leaks before they become a problem
- + It can automatically shut off the water (or enable you to do it remotely) in the event of detecting a problem



Intelligent water management systems

- Conti+ CNX enables the complete management of up to 150 connected products such as taps, showers or urinals
- + You can manage tasks such as hygienic flushing and thermal disinfection remotely
- + All safety routines are logged for future reference
- + Conti+ Service App enables water flow and hygiene controls via mobile phone or tablet



Putting in place an effective installation, monitoring and maintenance system

- + Have a regular maintenance regime even if things seem to be working fine
- + A lot of problems can be hard to spot
- + Encourage staff to report any issues they come across
- + Monitor water usage and check for leaks
- + Ensure you have the right loggers and meters
- Get equipment professionally installed this may automatically include after sales support or maintenance continuity



Water saving pillar three: reuse and recycle your water



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Integrated water management

Definition CIRIA:

A collaborative approach to managing land and water that delivers coordinated management of water storage, supply, demand, wastewater, flood risk, quality of water and the wider environment

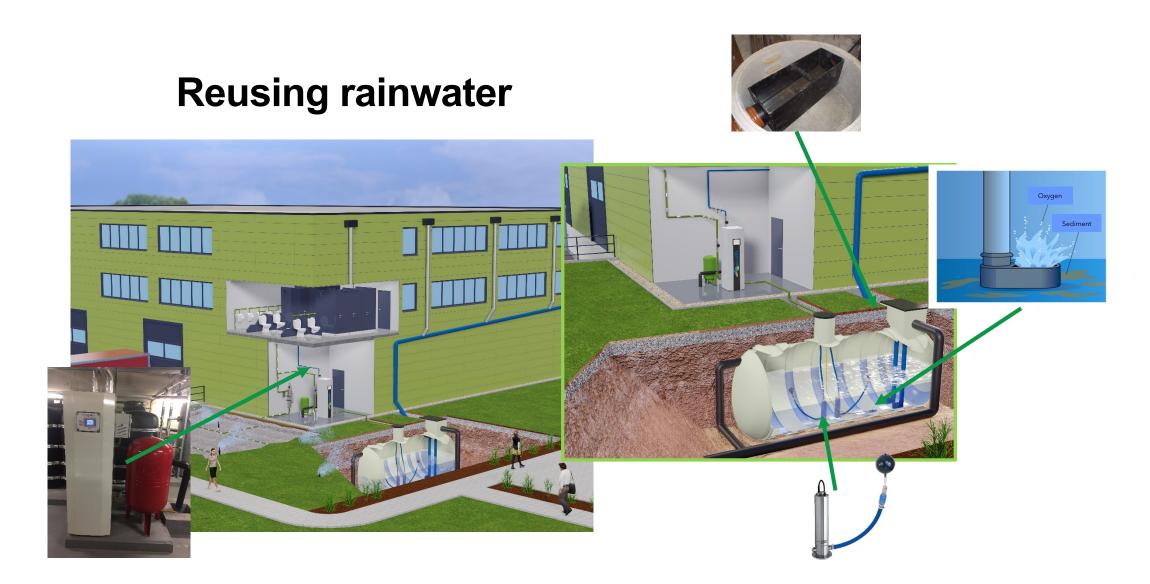
Rainwater/ stormwater management

- Ponds, swales, raingardens etc.
- Green roof
- Attenuation tanks/Blue roofs
- Rain-/Stormwater harvesting
- Greywater recycling
- Other water reuse/recycling



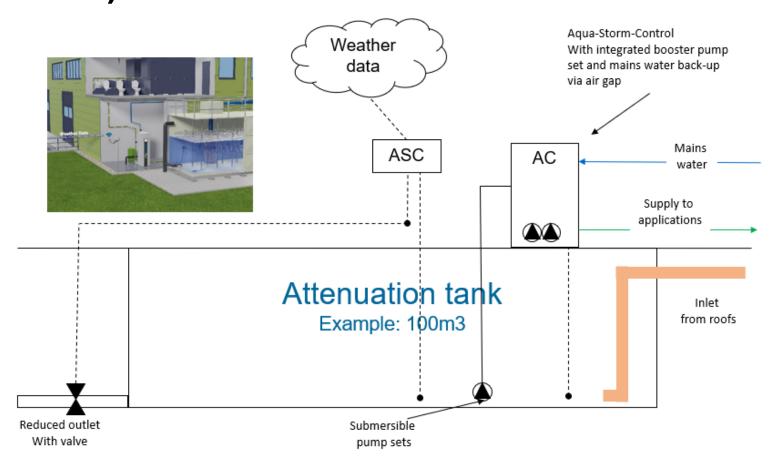








Smart rainwater harvesting (inc attenuation / flood management)





Reusing stormwater





- Treatment channels
- Chamber filter
- Filter media & bioretention







Landscaping

- + Analyse how much water your water features use, consider evaporative loss and ensure water is recycled into the system
- + Use drought tolerant plants in your garden
- + Mulch your flowerbeds and pots so they retain moisture better
- + Water plants early in the morning or late in the evening
- + Rainwater harvesting install water butts and tanks to make use of rainwater
- + Consider living wall features which can be rain fed or use grey water



Air conditioning & cooling towers

- + Use the appropriate air conditioning system some use water, some don't
- + Is the maintenance regime for your cooling tower water efficient?
- + Use fans and natural ventilation where possible
- + If using evaporative air conditioners then set your thermostat to 24c for most efficient operation
- + You can harvest condensation from air conditioning to recycle it for other uses
- + Ensure you switch off heating and cooling when the building isn't occupied



The importance of having a water management strategy



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What is a water management strategy?

- + Does what it says on the tin
- + Businesses often forget about water, don't have the tools to manage it and don't think strategically about water
- + Comprehensive overview of all things water



The benefits of a formal water management strategy

- + Complying with regulations
- + Reducing costs
- + Reducing carbon
- + Benefiting the environment
- + Benefiting your staff and customers
- + Guides decision making

The elements of a water management strategy

- + Where does your water come from?
- + What do you use it for?
- + Where does it go?
- + How much does each of these stages cost?



How to develop a water management strategy

- + How can you improve what you've already got?
- + How do you monitor and maintain your water management strategy once it's in place?
- + Who is responsible for implementing your water management strategy?
- + How do you keep it live and maintain momentum?



Tracking the success of your water management plans

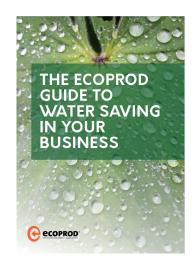
- + Talk to your water supplier about smart metering and online billing
- + Smart meters give you the data you need to properly monitor and understand your water usage
- + Measure the before and after water usage levels relating to any changes you make
- + Ask suppliers if they can help you with measurement of water savings and ROI calculations



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Other resources

- Green washroom guide
- Guide to water saving in your business
- Drop us a line to arrange a 1-2-1 call or site visit <u>rachel.clinton@ecoprod.co.uk</u>







Questions?

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