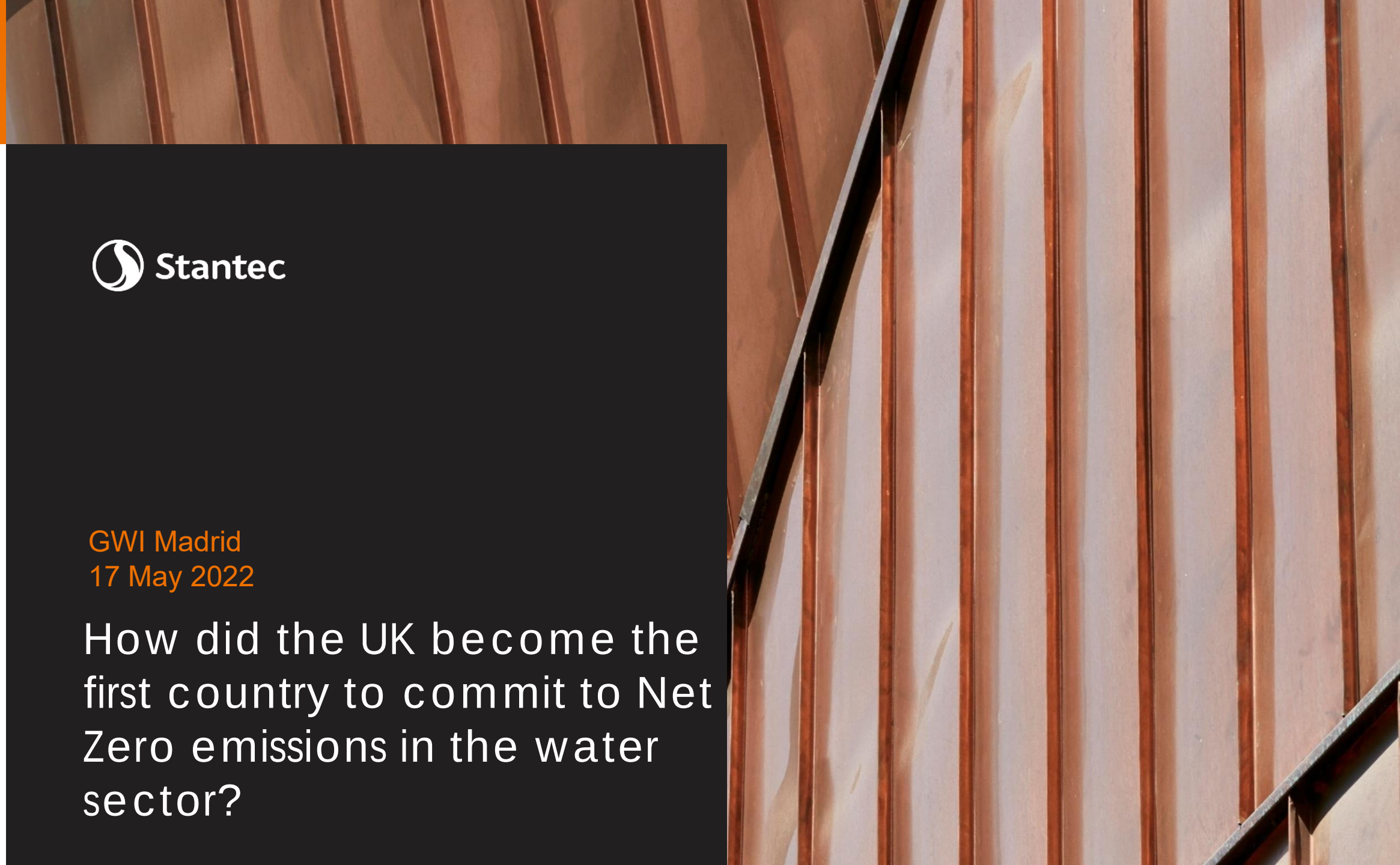


Stantec

GWI Madrid
17 May 2022

How did the UK become the first country to commit to Net Zero emissions in the water sector?

Agenda

1. Safety Moment
2. The Challenge
3. UK Water Net Zero Challenge
4. Case Study
5. Other Examples
6. Discussion

Safety Moment

Ecological Footprint

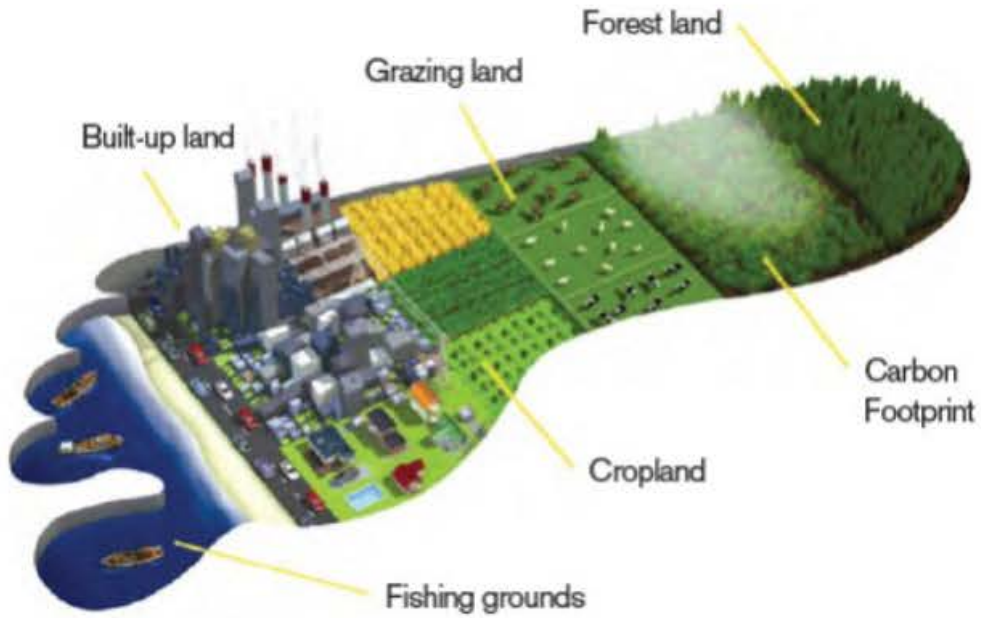
Stop & Talk: Ecological Footprint

Health, Safety, Security, & Environment

SaferTogether

What does the Ecological Footprint measure?

The Ecological Footprint measures an individual or a population's demand for plant-based food and fiber products, livestock and fish products, timber and other forest products, space for urban infrastructure, and forest to absorb its carbon dioxide emissions from fossil fuels.



Your personal ecological footprint is the impact of your lifestyle choices or activities measured in terms of the land required to sustain your use of natural resources.

How can you reduce your ecological footprint?

- Get rid of single-use plastic
- Consider renewable energy
- Conserve energy
- Eat less meat, and more plant-based foods
- Drive less and travel sustainably
- Use less water
- Buy local
- Buy used goods
- Recycle whenever you can
- Reduce your waste
- Repair instead of replace

What to know what your ecological footprint is? Go to Ecological Footprint Calculator

Information provided by 11 Simple Ways to Reduce Your Ecological Footprint - Get Green Now (get-green-now.com) and FAQ - Global Footprint Network; picture provided by overshootday.org

If you have questions, please contact your supervisor, Office Safety and Environment Coordinator (OSEC), or local HSSE representative

HSSE Stop & Talk are written for educational purposes and are not intended to replace safe work practices or procedures.

Stantec

The Challenge

How did the UK become the first country to commit to Net Zero emissions in the water sector?

Water UK

In November 2020, UK water companies unveiled a ground-breaking plan to deliver a net zero water supply for customers by 2030 in the world's first sector-wide commitment of its kind.

Water UK estimated the sector could save the emission of 10 million tonnes of greenhouse gas by reaching net zero two decades ahead of the UK Government's legally binding target of 2050. The ambition is that this will set the bar for other infrastructure, utility and energy-intensive industries in the UK and around the world.

Discussion

The Aims?

- Low emission vehicles
- Water and energy Saving
- Process emissions
- Renewable power
- Green gas

By 2030 we aim to see:

1. Low emissions vehicles
100% of fleet passenger vehicles are electrified and 80% of commercial vehicles (LGVs and HGVs) converted to alternative fuels to cut carbon and air pollution.

2. Water and energy saving
New strategies to tackle leakage and help customers save water, alongside smarter and more efficient networks and catchments.

3. Process emissions
Targeting a reduction of up to 60% from our 2018-19 baseline by 2030, with monitoring of emissions to inform research and detailed pathways ahead of PR24.

4. Renewable power
Up to 3GW of new solar and wind power coupled with energy efficiency measures and suitable storage to provide up to 80% of sector demand, relieve pressure on grid generators, and minimise the need for offsets.

5. Green gas
Biomethane from sewage waste is injected into the grid to heat up to 150,000 homes, use in hard to decarbonise sectors, or to generate low-carbon power when generation from renewables is low.

Discussion

We will need to do more than just that.

Restoring native habitats: 20,000 hectares of owned peatland and grassland are restored and 11 million new trees are planted. These nature-based measures will help achieve a just transition by reducing demand on treatment, providing an important sink for the hard to abate activities like process emissions, restoring habitats, and reducing flood risk.

Targeting innovation — process emissions are highly uncertain and tackling them quickly is a significant global challenge. We don't have all the answers yet and finding efficient retrofit solutions is a big priority for our innovation strategy.

Our Support

What are Stantec doing in this space

- Helping clients to understand their route maps and next level objectives.
- Developing Science Based Targets
- Driving technology and innovation
- Helping clients understand a more holistic approach to their sites and what they need to be by 2030.
- Developing more robust capital approaches including natural capital approaches
- Designing low carbon options

Conclusion & Feedback

We would love to hear your thoughts..

- Please scan the QR code using your smartphone
- Short survey – approx. 4 mins to complete
- Thank you!

Link to MS Forms survey