

Dwr Uisce Newsletter

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Wed 12/21/2022 11:03 AM

To: Roberta Bellini <BELLINIR@tcd.ie>



NEWSLETTER

21 December 2022



Welcome/Croeso/Fáilte

Welcome to our Winter 2022 Newsletter, bringing you up to date on the Dŵr Uisce project.

In this issue, you can read about the very successful launch event of our Drain Water Heat Recovery system at Penrhyn Castle (north Wales) in early October.

If you have not had a chance yet, read about our ongoing Citizen Science project on Water-Energy Efficiency in Irish Households and please participate in the survey. There is still time!

Looking into the New Year, two Sustainability Webinars are planned for January and February 2023, while our final conference will be in Trinity College Dublin on 7 March. We look forward to seeing you at one of (or all) these events!

Finally, we highlight the Dŵr Uisce team members' continued commitment to spreading the findings of their work, with short pieces about participation at international conferences.

We take this opportunity to wish all our followers and cluster members a peaceful Christmas and a happy 2023!

Roberta Bellini

Editor

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Croeso i gylchlythyr y Gaeaf 2022 a'r wybodaeth ddiweddaraf am broject Dŵr Uisce.

Yn y rhifyn hwn, gallwch ddarllen am ddigwyddiad lansio

llwyddiannus iawn ein system i Adennill Gwres o Ddŵr Gwastraff yng Nghastell Penrhyn (gogledd Cymru) ddechrau mis Hydref.

Os nad ydych wedi cael cyfle eto, darllenwch am ein project Gwyddor Dinasyddion ar Effeithlonrwydd Dŵr-Ynni mewn Cartrefi Gwyddelig a chymerwch ran yn yr arolwg. Mae amser o hyd!

Gan edrych ar y flwyddyn newydd, mae dwy weminar Cynaliadwyedd wedi'u cynllunio ar gyfer Ionawr a Chwefror 2023, a bydd ein cynhadledd olaf yng Ngholeg y Drindod ar 7 Mawrth. Edrychwch ymlaen at eich gweld yn un o'r digwyddiadau hyn, neu bob un ohonynt!

Yn olaf, rydym yn tynnu sylw at ymrwymiad parhaus tîm Dŵr Uisce i ledaenu'r neges gyda darnau byr am gymryd rhan mewn cynadledau rhyngwladol.

Hoffem fanteisio ar y cyfle i ddymuno Nadolig heddychlon a 2023 hapus i'n holl ddilynwyr ac aelodau'r clwstwr!

Roberta Bellini

Golygydd

UPCOMING EVENTS AND INITIATIVES

SUSTAINABILITY WEBINAR SERIES: TWO MORE EVENTS IN 2023



Dates for your dairies: 24 January and 15 February 2023 for our last two webinars.

Join our researchers for insights and updates from our Drain Water Heat Recovery demonstration site at ABP Foods, Cahir (Co. Tipperary, Ireland) on Tuesday 24 January at 2pm, with an option to join a 3D virtual tour of the site.

On Wednesday 15 February, hear from our colleagues about how to manage a transdisciplinary research project and how to visualise project progress, output and outcomes, as well as stakeholder engagement.

More details [here](#).

DWR UISCE FINAL CONFERENCE (HYBRID EVENT) ON 7 MARCH 2023

We are delighted to announce that our final conference will take place on Tuesday 7 March 2023 in Trinity Business School in Trinity College Dublin. It will be delivered as a hybrid event to offer an opportunity to as many people as possible to join us. More details in early 2023, so keep checking our social media channels!

STILL TIME TO TAKE PART IN THE SECOND PART OF THE DWR UISCE CITIZEN SCIENCE PROJECT IN IRISH HOUSEHOLDS



If you have not done so, please consider taking the survey and help us gather fundamental data to progress our research. Click [here](#).

UPDATES FROM OUR DEMONSTRATION SITES

WATER GOING DOWN THE DRAIN ISN'T MONEY DOWN THE DRAIN FOR NATIONAL TRUST CYMRU'S PENRHYN CASTLE

Press Release

Press Release. Bangor, 11 Oct 2022 - Researchers from Trinity College Dublin and Bangor University are leading a six-year project aiming to stop useful energy going down the drain. They have piloted a system that recovers energy from wastewater at Penrhyn Castle and Garden – a fantasy castle and garden owned by National Trust Cymru in North Wales, UK. [Read More](#).



TAKE A VIRTUAL TOUR OF TWO OF OUR DEMONSTRATION SITES!



Roberta Bellini & Madhu Murali

You might remember that during the summer we shared our thoughts and ideas about the future of our demonstration sites once the project ends in February 2023. We continued working on the 3D virtual tour project and we are now pleased to invite

you to take virtual 3D tours of the Drain Water Heat Recovery System (DWHR) in Penrhyn Castle, Wales and of the Micro-Hydropower installation at Blackstairs, Co. Wexford Ireland. Read [here](#).

AWARENESS RAISING OF WATER-ENERGY NEXUS EFFICIENCY

LAUNCHING THE SECOND PART OF THE DWR UISCE CITIZEN SCIENCE PROJECT IN IRISH HOUSEHOLDS

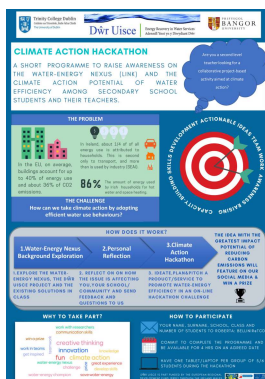
Aisha Bello-Dambatta

Last year, we launched the Dwr Uisce Citizen Science Project in households in the Republic of Ireland. The main aim of this initiative is to engage and collaborate with the public to improve our understanding of water-related energy use in Irish homes, and to find the most effective ways of improving the efficiency of household water and energy use.

The main aim of this follow-up study is to develop a baseline of current household water use and water-related energy use which will help in quantifying the potential of energy efficiency and emissions reductions from water use in Irish households. The findings of the whole project are being used to develop up to date best practice guidelines for climate action from household water use efficiency. [Read more.](#)



CLIMATE ACTION HACKATHON PROGRAMME FOR IRISH SECONDARY SCHOOLS



We are looking for **one** more Irish secondary schools to participate in our Climate Action Hackathon Programme. A short programme to raise awareness on the water-energy nexus and the climate action potential of water efficiency among secondary school students and their teachers. It will provide teachers with the material necessary to brief their students on the topic and students with the knowledge and skills to take climate action. The programme will culminate in an on-line event in the format of a hackathon, during which participants will ideate solutions to encourage more people to adopt water- efficient behaviours.

For more details click [here](#).

SPREADING THE MESSAGE

ISABEL AT A LIFE CYCLE ASSESSMENT CONFERENCE IN FUKUOKA, JAPAN

Isabel Schestak

Dr Isabel Schestak from our Bangor team had the chance to attend the biannual EcoBalance conference in Fukuoka, Japan, focussing on all things Life Cycle Assessment (LCA), from 30 October to 2 November. It was the first time EcoBalance was organised as an in-person event again since the start of the pandemic. It was a great opportunity to meet the “who is who” in LCA and for networking, as the conference invited researchers, practitioners and companies from the LCA field from around the globe. Read [more...](#)



NATHAN WALKER AT THE SDEWES CONFERENCE IN PAPHOS, CYPRUS



Nathan Walker

Dr. Nathan Walker attended the 17th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES). It was dedicated to the advancement and dissemination of knowledge on methods, policies and technologies for increasing the sustainability of development by de-coupling growth from the use of natural resources and by a transition to a knowledge-based economy. It took into account the economic, environmental and social pillars of sustainable development. Continue [reading](#)

CLIMATE CHANGE WORK PACKAGE PARTICIPATE IN BRITISH HYDROLOGICAL SOCIETY NATIONAL SYMPOSIUM

Richard Dallison

In September, Dŵr Uisce researchers Dr Richard Dallison and Dr Sopan Patil attended the British Hydrological Society's 14th

National Symposium (BHS2022), also presenting and discussing their work. Held in person for the first time since 2019, the symposium attracted many scientists and researchers from across the UK to Lancaster University, for an interesting two days of presentations, discussions, networking and demonstrations. Indeed, over 100 oral presentations were delivered across 16 sessions, covering a broad array of hydrology topics and study areas, with a further 60+ posters stimulating additional discussion. Continue [reading](#).



RECENT PUBLICATIONS

Journal Articles

Schestak, I., Spriet, J., Black, K., Styles, D., Farago, M., Rygaard, M. & Williams, A.P. 2023. [Heat recovery and water reuse in micro-distilleries improves eco-efficiency of alcohol production](#). *Journal of Environmental Management*, [Volume 325, Part A](#), 1 January 2023, 116468

Conference proceedings

Schestak, I. 2022. Environmental Trade-offs of Decarbonisation Pathways for domestic water and space heating. Ecobalance Conference 2022, Fukuoka, Japan

Walker, N. 2022. Cross-sector sustainability benchmarking: illustrating a new comparison framework. 17th SDEWES Conference Phafos, Cyprus, 6-10 November 2022.

Dallison, R.J.H. & Patil S.D. 2022. Future water availability for run-of-river hydropower in the UK and Ireland under climate change, British Hydrological Society National Symposium 2022, Lancaster, UK, 12th-13th September

Other

[Pioneering system ensures money doesn't follow water down the drain](#), Trinity College Dublin.

[Water going down the drain isn't money down the drain for National Trust Cymru's Penrhyn Castle](#), National Trust Press Release, 11 Oct 2022

[Nid arian i lawr y draen i Ymddiriedolaeth Genedlaethol Cymru yw'r dŵr sy'n mynd i lawr y draen yng Nghastell Penrhyn](#), Datganiad i'r wasg

JOIN (OR RECOMMEND) THE DŴR UISCE WATER SPECIALISATION CLUSTER



Are you a company, a consultant, a university, a scientist interested in saving water and energy? Are you in one of the regions in Ireland or Wales covered by the [INTERREG funding initiative](#):

- Ireland - Carlow / Cork / Dublin City / Dun Laoghaire / Rathdown / Fingal / Kerry / Kildare / Kilkenny / Meath / South Dublin / Tipperary Waterford / Wexford / Wicklow
- Wales - Carmarthenshire / Ceredigion / Conwy / Denbighshire/ Flintshire / Gwynedd / Isle of Anglesey / Pembrokeshire / Swansea / Wrexham

You may eligible to join our [SMART SPECIALISATION CLUSTER](#) and benefit from a range of services we offer.

[Click here](#) for more information.

BUSINESS SUPPORT

Let us help you to reduce your water and energy costs.
For free!



Our aim is to support your business in saving water, energy, emissions and money, and thus making it more resilient for the future. We are a team from Trinity College Dublin and Bangor University, Wales, experienced in working with industry.

We offer a minimum of six hours free consultation time to:

- Measure your current water and related energy use
- Identify opportunities to reduce your water and energy consumption
- Propose cost-effective solutions
- Advise on how to improve your environmental footprint, both in your business and along your supply and demand chains

The free consultation we offer only involves a little time from your side - no financial investment is required.

Participation qualifies you to become part of the DWR UISCE network with the opportunity to link and learn from similarly-challenged businesses. You will hear about technology choices, cost and carbon savings, avoid the mistakes others have made and connect with trusted suppliers.

Send us an informal request and start benefitting from our expertise, our support and our network.

Email: admin@dwr-uisce.eu
Phone: +44 (0) 1248 38 3219 (Bangor)
+353 (0) 1 896 1311 (Dublin)
Web: www.dwr-uisce.eu/business-support



DWR UISCE stands for *Distributing our Water Resources: Utilising Integrated, Smart and Low-Carbon Energy*. The project is contributing to improving the long-term sustainability of water supply, treatment and end-use in Ireland and Wales. DWR UISCE is funded by the European Regional Development Fund through the Ireland-Wales Cooperation programme.

CONNECT WITH US

All project updates, progress, activities and events are posted regularly and shared widely on our [@Dwr_Uisce](#) Twitter account.

Follow also the hashtags: [#Dwruisce](#).

You can read more on our latest news @ our [News](#) section. Sign up for our newsletter [here](#).

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Dŵr Uisce

Energy Recovery in Water Services
Adennill Ynni yn y Diwydiant Dŵr



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