

Press release

RWE launches hydrogen education programme to inspire the next generation of climate champions

- **Interactive lessons teach Pembroke students how hydrogen powers industries and supports Net Zero ambitions**
- **The programme encourages STEM careers, fostering the next generation of clean energy leaders**
- **RWE recently received planning permission for its 100MWe Pembroke Green Hydrogen Project which could be used to decarbonise local industrial activities in South Wales**

Pembroke, 29 January 2025

RWE, one of the world's leading renewable energy companies, is proud to announce the launch of its Hydrogen Education Programme, an initiative designed to educate schoolchildren about hydrogen and its vital role in achieving net zero and its role in decarbonising industry.

RWE has worked with [Generation C](#) to create a bespoke programme targeted at schools across the UK, and aims to inspire young minds through interactive, curriculum-based activities that connects the classroom to real world scenarios allowing children of all ages to delve into hydrogen's properties, production, and its growing use in industries driving the clean energy transition.

Henry Tudor High School in Pembroke has already taught the secondary school lesson to some of its children and Golden Grove Primary School, Pembroke will start their roll out this week. Through this Hydrogen Education Programme, students will explore how hydrogen, as a clean energy source, is integral to reducing emissions in industries like transport, manufacturing, and energy.

Activities include: real-world case studies showcasing how hydrogen is being used in RWE's innovative projects and group challenges encouraging students to think critically about how hydrogen can be applied to address global climate issues.



Headteacher Mr A Williams, Golden Grove Primary School, commented, “As a Head of a large primary school in Pembrokeshire, an area that is and should be on the frontline of green energy growth, it is imperative that we build long and meaningful relationships with companies like RWE. The initial lesson really captivated our learners they fully understand the need for green energy, particularly the new hydrogen plant. The beauty of the New Welsh Curriculum is that we can amend it to our community needs - children making an electrolyser to produce hydrogen is the start of a journey that could really flourish with businesses and the education sector working together. The children are already looking forward to what lessons are coming next. Ultimately, though, there is also the far broader aspect on what it could mean in the future for our young learners as they enter the world of work. This whole project has the ability to provide highly skilled jobs in our county and we need our learners to be at the forefront of that.”

The programme aligns with RWE’s commitment to engaging the next generation in the journey toward a sustainable future, fostering curiosity, and empowering students to take an active role in shaping a greener world.

Louise McDonnell, RWE hydrogen development manager, who attended the event commented, “Our Hydrogen Education Programme is about equipping young people with the knowledge and inspiration to make a difference. Hydrogen is a game-changer in the fight against climate change, and through this initiative, we’re helping students see the possibilities and opportunities in clean energy. Education is key to building the skills and passion needed to achieve net zero and safeguard our planet.”

RWE’s Hydrogen Education Programme is not just about raising awareness—it’s about inspiring careers in clean energy. By sparking curiosity in STEM (Science, Technology, Engineering, and Mathematics), the programme encourages students to explore future roles in the growing hydrogen economy and the renewable energy sector.

RWE recently received planning permission for its RWE Pembroke Green Hydrogen Project a 100MWe electrolysis plant capable of producing approximately two metric tonnes of green hydrogen per hour. By displacing fossil fuels, the plant is expected to reduce local CO² emissions by approximately 93,000 tonnes per year—the equivalent of removing 18,600 cars from the road.

RWE is the largest power producer in the UK, and a leading renewable generator with a diverse portfolio of onshore wind, offshore wind, hydro, biomass, and gas. RWE is developing hydrogen opportunities across the UK to help decarbonise UK industry.





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RWE

RWE is leading the way to a green energy world. With its investment and growth strategy Growing Green, RWE is contributing significantly to the success of the energy transition and the decarbonisation of the energy system. Around 20,000 employees work for the company in almost 30 countries worldwide. RWE is already one of the leading companies in the field of renewable energy. Between 2024 and 2030, RWE will invest 55 billion euros worldwide in offshore and onshore wind, solar energy, batteries, flexible generation, and hydrogen projects. By the end of the decade, the company's green portfolio will grow to more than 65 gigawatts of generation capacity, which will be perfectly complemented by global energy trading. RWE is decarbonising its business in line with the 1.5-degree reduction pathway and will phase out coal by 2030. RWE will be net-zero by 2040. Fully in line with the company's purpose - Our energy for a sustainable life.

Generation C uses unique, real-world green education solutions that unite the education, business and government sectors in a powerful partnership that drives commercial, economic and societal benefits for all.

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