



School students in Heywood learn about pioneering research at Energy House 2.0



A class of construction students at a school in Heywood have been given a lesson about an experimental eco-house built in nearby Salford.

Sam Ward, Assistant Site Manager at Bellway Manchester, gave pupils at Newhouse Academy a one-hour presentation about the developer's 'Future Home' – a three-bedroom test house built in a climate-controlled chamber at The University of Salford.

Sam oversaw the day-to-day construction of the detached property at The University of Salford's research facility Energy House 2.0. This forms part of a £16 million research project, led by the university and Energy House Labs, which is being part-funded by the European Regional Development Fund (ERDF).

The project aims to find new ways of powering, heating and insulating homes, making them more energy efficient and helping to meet new standards which require a significant reduction in carbon emissions for new-build homes from 2025.

The students were shown slides and a video of the eco house, which incorporates a variety of different green technologies that will be tested in the special chamber over the coming year.

Energy House 2.0 features two chambers each big enough to fit 24 double decker buses with room to spare. The facility can test the energy performances of buildings in a variety of categories in any climate and temperature ranging from -20C to +40C, as well recreating gale force winds, rain, snow, ice and solar radiation.

Bellway's Future Home includes two air source heat pumps, one of which is the first in the UK to be mounted in the roof, smart heating controls, infrared panels on walls and ceilings, underfloor heating, a mechanical ventilation heat recovery system, wastewater heat recovery, double/triple glazing on windows, enhanced insulation and a photovoltaic inverter, which stores solar power for use when the household's need is greatest.



Sam made the school presentation on behalf of Bellway and The Friends of Energy House 2.0 – a group set up by the research team to educate students in the Greater Manchester area about climate change and green energy.

Teacher Nicola Lane, Second in Technology Department at Newhouse Academy, said: “It was a very exciting opportunity for our construction students to get a real insight into the Energy House 2.0 project which is helping to shape the future of sustainable housing. The students were delighted to meet Sam, who gave an interesting and engaging presentation and answered questions.

“Sam’s presentation will prove invaluable for these students, and could not have come at a better time, as they embark on the ‘new technologies’ unit of their study, which focuses on innovation within the construction industry.”



Sam said: “Community outreach is a vital part of our work at Bellway as we strive to foster meaningful relationships within the local communities where we build. We are delivering new homes at Hopwood Meadows in Heywood so we thought it would be a good idea to ask the local school if they would like us to give them a presentation about the pioneering research being carried at Energy House 2.0.

“It was a pleasure to be able to visit Newhouse Academy and to share information about the research and about The Future Home, which is a build that I oversaw. The youngsters were all students who are considering a career in the construction industry and were enthusiastic and fully engaged with the subject.



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“This is an exciting project which aims to lead the housebuilding industry’s move towards low-carbon and zero-carbon ready homes. Energy House 2.0 will provide important research which will help us to understand which technologies are efficient, cost-effective and user-friendly to allow us to choose the best options for both consumers and the planet.

“The house-building industry will be changing rapidly over the coming years, so it is vitally important that the next generation of talent to enter the industry understands what the homes of the future might look like.”

Bellway is also building near Newhouse Academy at Hopwood Meadows in Heywood, Manchester. A mix of three, four and five-bedroom houses are now for sale.

For more information on The Future Home, see <http://www.bellway.co.uk/the-future-home>.

To find out more about Energy House 2.0, see <http://www.energyhouse2.com/>.

For more information about Bellway developments in and around Manchester, see <https://www.bellway.co.uk/new-homes/manchester>.

Captions

- **Sam Ward, Assistant Site Manager for Bellway Manchester, gives a presentation about The Future Home to students at Newhouse Academy in Heywood.**
- **Students at Newhouse Academy in Heywood learn about The Future Home project from Sam Ward, Assistant Site Manager for Bellway Manchester.**
- **Sam Ward, Assistant Site Manager for Bellway Manchester, gives a presentation about The Future Home to students at Newhouse Academy in Heywood.**

About Bellway Homes

Bellway Homes is a FTSE 250 Index listed residential housebuilder based in Newcastle upon Tyne, employing almost 3,000 staff across 22 Divisions across England, Scotland and Wales.

Bellway began as a small family business in the North East in 1946 - with a passion for building exceptional quality homes in carefully selected locations, inspired by the needs of real families.

We are proud of our heritage in the North East, and remain one of the region’s largest employers, with our Head Office still being located in Newcastle upon Tyne.

To this day, we maintain these same core values, combining our decades of expertise with the level of personalised care that Bellway is known for.

We are delighted to have been awarded 5 star builder status by the Home Builders Federation for the sixth year running, with 9 out of 10 customers saying they would recommend us to a friend.



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About Energy House 2.0

Energy House 2.0 is a collaborative project between partners including the University of Salford, Bellway, Barratt Developments, and Saint-Gobain. Together we will drive innovation and solutions to address global and domestic energy efficiency challenges.

Energy House 2.0 is a unique £16 million research facility, part-funded by the European Regional Development Fund (ERDF), enabling SMEs to innovate and develop low carbon technologies for the built environment.

The project is receiving up to £8,244,043 of funding from the England European Regional Development Fund as part of the European Structural and Investment Funds Growth Programme 2014-2020. The Ministry of Housing, Communities and Local Government (and in London the intermediate body Greater London Authority) is the Managing Authority for European Regional Development Fund. Established by the European Union, the European Regional Development Fund helps local areas stimulate their economic development by investing in projects which will support innovation, businesses, create jobs and local community regenerations. For more information visit <https://www.gov.uk/european-growth-funding>.

For more details on Energy House 2.0, visit www.energyhouse2.com and follow us on Twitter @energy_house2 and LinkedIn @Energy House 2.0. #energyhouse2



European Union

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