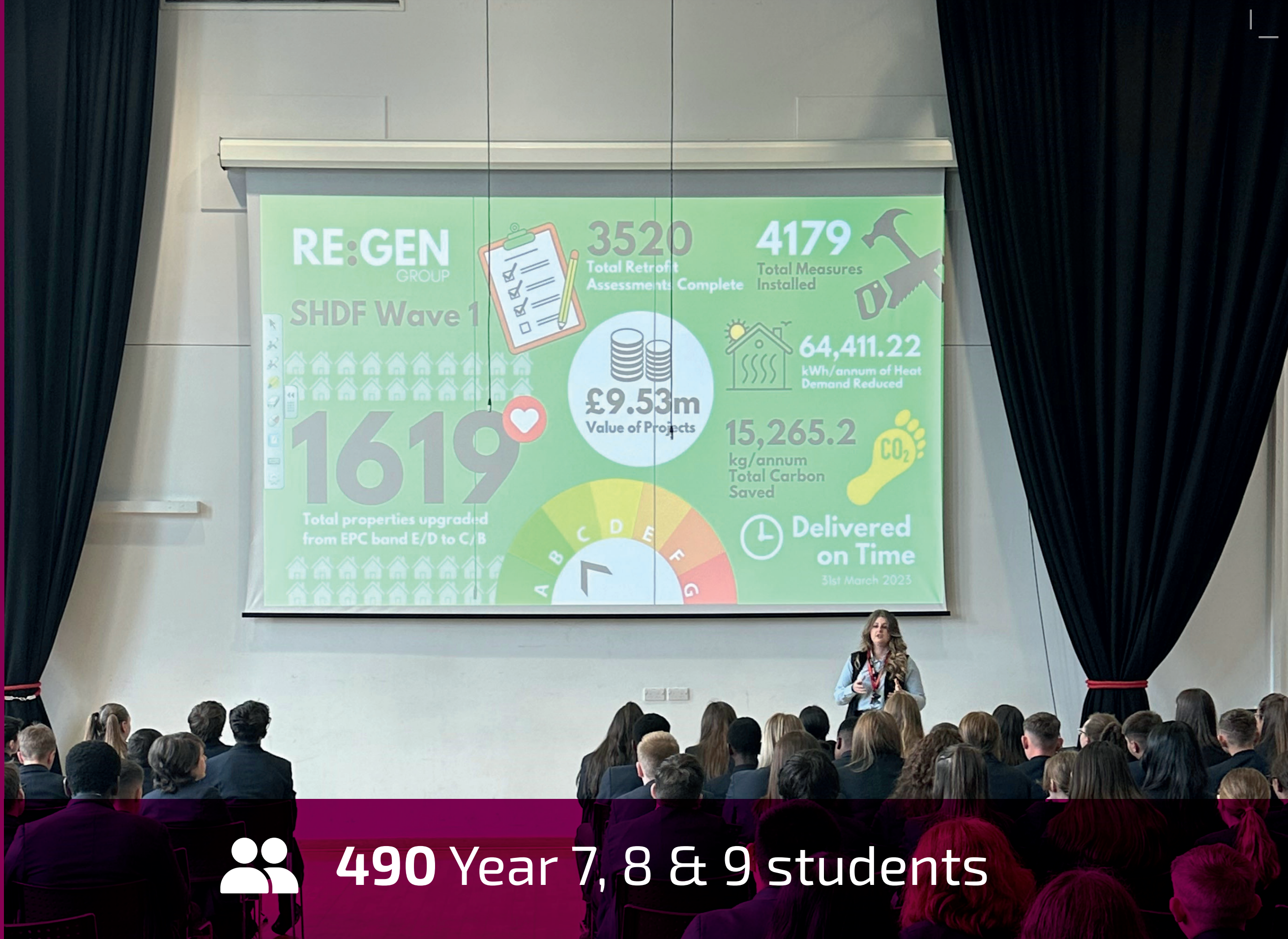


Linking curriculum learning to the world of work

PHYSICS – KEY STAGE 3

Energy
Fuels and energy resources



Objectives

- ⚡ Increase student's science capital through engagement with employers
- ⚡ Students understand the uses and implications of science, today and for the future
- ⚡ Students become aware of and inspired by career opportunities in the renewable energy sector
- ⚡ Students can identify where and how their physics curriculum learning is applied in businesses within the renewables sector

Learning activity

Face to Face and Virtual Company Insight Sessions

Over a half term, students engage in a series of sessions with a range of companies in the renewable energy sector in face to face and virtual sessions. Key employees introduce the company and their roles, discuss key skills required in the sector and opportunities to train and work locally and globally in the sector. Employers highlight the importance of science and how learning from physics lessons links to their company

Q&A Opportunities

Students asked employers questions to find out more about working in renewables and how their learning in physics can support progression into a range of careers in the sector

Long term relationships

Sustainable relationships developed between school and businesses create follow up opportunities for students to visit and work with companies more closely e.g., work experience placements and site visits

Outcomes

- 96% of students enjoyed meeting people in STEM related jobs and felt they learnt about new STEM roles
- 89% of students felt encounters with businesses helped them to understand the importance of science in the world of work
- 89% of all students felt they could link their learning in science lessons to the work of the employers they met

Feedback

"The students demonstrated a clear grasp of the role of science in various aspects of construction, including materials science, energy efficiency, safety, innovation, and career opportunities. They were able to connect these concepts to real-world examples, showcasing their ability to apply scientific knowledge to practical situations."

Core Haus

"Participating in the pilot with the North East LEP has allowed us to highlight tremendous opportunities for employment in green scientific jobs in the North East. Students have really engaged with the talks generating a flurry of questions. It has been particularly pleasing to showcase STEM opportunities with multiple entry points, particularly for non-graduates."

St Mary's Catholic School

"I found the sessions with employers informative and enjoyable and loved learning that STEM jobs have no barriers in terms of gender, it doesn't matter who you are, you can work in STEM."

Student