



We hope you enjoyed your Taster Lecture examining 'Energy Transition to a Post Carbon World', from [Dr. Ken Amor](#), STEM Access and Outreach Associate. If you missed the live event, you can view the recording on [Inspire Digital](#); log in using the passcode provided in your welcome email.

With each session in the Year 12 course, we will include a competition for you to participate in, based on the Taster Lecture in that session. Details of the competition, alongside further resources related to Energy Transition to a Post Carbon World, are included in this sessions' Going Further!

Energy Transition to a Post Carbon World

FURTHER RESOURCES

- [BBC Briefing: Energy!](#)
- [How much electricity is generated, Live!](#)
- [National Grid – the power of connecting](#)
- [Journey to net zero](#)
- [Oxford University Energy Network](#)



COMPETITION S5

One proposal to reduce the variable electricity demand on the national grid is to make better use of local electricity generation and storage, and automated control systems that run domestic appliances e.g. using a washing machine at off peak (electricity) times.

Design a house for the future that uses alternative energy generation and storage systems.

You should consider:

- Multiple methods of alternative energy generation for both heat and electricity.
- Multiple methods of energy storage e.g. heat, chemical energy etc.
- Computerised and automated control systems, e.g. motion sensors to switch off lights etc.

Your answer should be in the format of an illustrated diagram or picture.

HOW TO ENTER

For full details on how to submit your entry, please see the [STEM Competitions page](#) of the [Year 12 section on Inspire Digital](#). The deadline for entries to Competition S5 is **5pm on Thursday 24th June**.

PRIZES

For each competition, up to 5 winning entries will each receive a £10 Amazon voucher. Each winning entry will also be published on [Inspire Digital](#) about a week after each competition's closing date.

CLICK HERE TO SUBMIT YOUR ANSWER



ST JOHN'S YEAR 12 INSPIRE PROGRAMME: STEM

DID YOU ENJOY THIS TOPIC?

You might be interested in the following courses we offer at St John's...

[Chemistry](#)

[Engineering](#)

[Geography](#)

Hear from a St John's student about studying these courses by clicking the links below...



[Chemistry](#)



[Engineering](#)



[Geography](#)



[Physics](#)



LOOKING FOR A NEW PODCAST TO GET STUCK INTO?

The University of Oxford provides a huge variety of podcasts on every topic imaginable, from cutting-edge scientific research to exciting events happening now at the university. You can find these on the [University website](#) or on [Apple Podcasts](#). The BBC radio programme, [In Our Time](#), covers a wide variety of fascinating subjects, discussed by world-leading experts, including Oxford academics! Here are a few of our favourites:

[Michael Faraday \(a scientist who worked on electricity and electrochemistry\)](#)

[Costing the Earth, Energy Storage](#)

[Power People: what are we doing with all that energy?](#)

[Electric Vehicles and the Future](#)

ST JOHN'S YEAR 12 INSPIRE PROGRAMME: STEM