

STEM Interventions in the UK



NESTet 2016 Jean Llewellyn CEO NSAN

Skills Challenges



Ageing workforce



Lack of diversity



Nuclear Sector



Other growth sectors/opportunities



Programme delays

Opportunities



Increased focus on STEM in schools



Sector of opportunity: decommissioning, operations, new build, defence



New entry routes e.g. Trailblazers



Focus on reducing CO₂ emissions

Promotion and Awareness of the Nuclear Sector and STEM Subjects



■ Work with Schools

- Teachers from Industry (5 – 10 year olds)
- Energy Foresight (15 -16 year olds)
- Energy Mix Challenge for schools and Catalyst Centres
- The Big Bang Fair

■ Graduate Activities

- Nuclear Bursary Awards 240 to date
- Nucleargraduates 7 cohorts to date

Energy Foresight

Energy Foresight supports delivery of the National Curriculum for science for 14 – 16 year olds which deals with radioactivity and related issues.

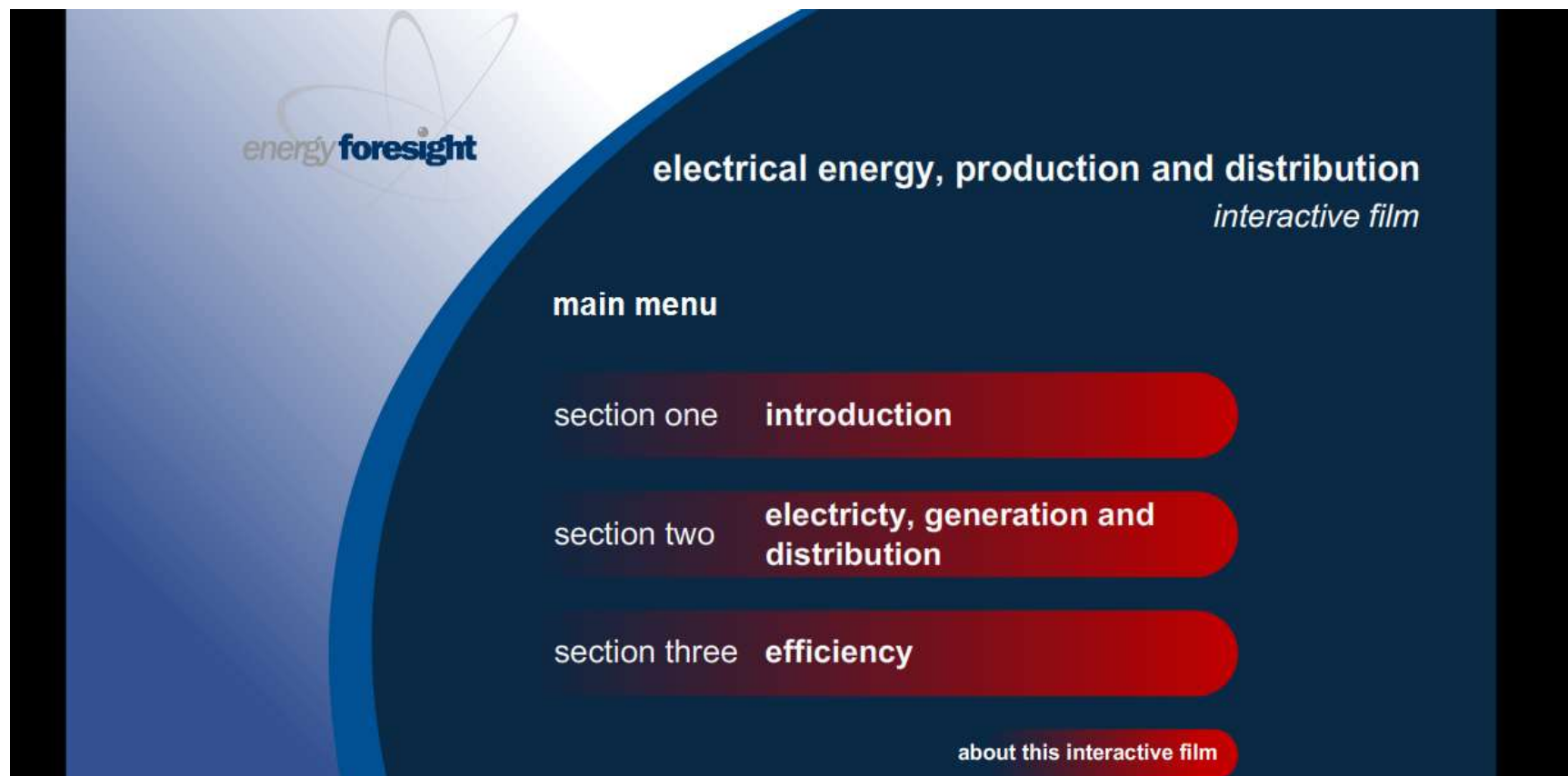
- Stimulate an interest in science as a subject for further study, including at university level;
- Encourages students, teachers and parents to develop their own thoughts around moral and ethical issues related to the Nuclear Industry;
- Encourages positive interest in the nuclear sector as a source of future employment.



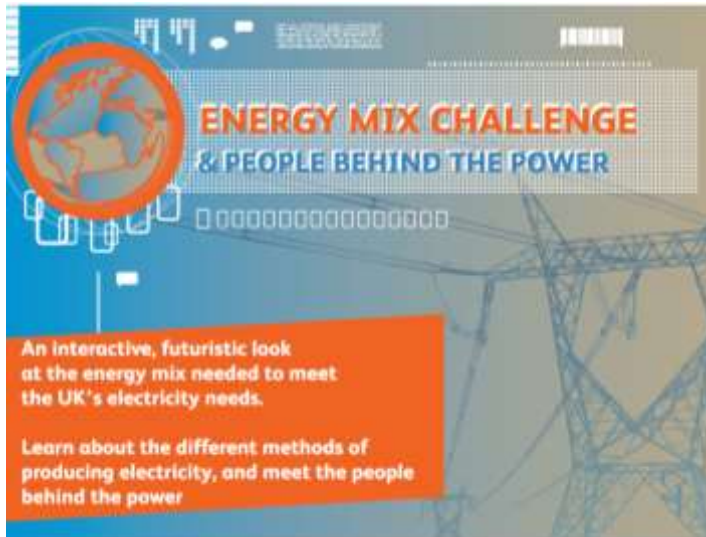
1427 Teachers training in use of the materials

■ Accessible via
www.nucleartrainingnetwork.com

Raising Awareness in Schools – Energy Foresight



Energy Mix Challenge



An interactive, futuristic look at the energy mix needed to meet the UK's electricity needs.

For use in Science Centres and schools and at Big Bang Fairs

To help young people learn about the different methods of producing electricity and meet the people behind the power

UK Nuclear Skills Awards Inspiring the Next Generation

- 8 Awards ceremonies to date
- Celebrating success of:
 - Apprentices – regional and national
 - HND/Foundation Degrees
 - Graduates
 - Leadership in skills



Conclusions

- There are many good STEM interventions underway in the UK
- This has helped raise awareness and interest in careers in the nuclear sector
- Nearly all apprentice and graduate programmes are now significantly oversubscribed with high quality applicants
- **The challenge now is to ensure there are sufficient good jobs and career opportunities for these young people to enter**