

Clean Technology (2017/18)

View Online



22 items

General reading for the module (1 items)

Recommended textbook (1 items)

Renewable energy: physics, engineering, environmental impacts, economics and planning
- Bent Sorensen, 2017

Book | An exhaustive text of nearly 1000 pages covering most areas of interest from the fundamentals of what energy is and of specific renewables to the socioeconomic context and life cycle analysis. An earlier edition of this book is also available from the Library

Week 1-2: The context for green technologies and examples of clean energy (4 items)

Recommended textbooks (2 items)

Fueling our future: an introduction to sustainable energy - Robert L. Evans, 2007

Book | A useful overview of the sustainable energy context and various technologies

Wind energy explained: theory, design and application - J. F. Manwell, J. G. McGowan, Anthony L. Rogers, 2009

Book | Wind energy

Further reading (2 items)

Tomorrow's energy: hydrogen, fuel cells, and the prospects for a cleaner planet - Peter Hoffmann, Byron L. Dorgan, 2012

Book | Focus on the example of hydrogen as a clean fuel technology.

Nuclear or not?: does nuclear power have a place in a sustainable energy future? - David Elliott, 2007

Book | Focus on the contentious example of nuclear power as a clean energy technology

Week 3: Case study: coastal and ocean renewable energy (1 items)

Recommended reading (1 items)

Review of ocean tidal, wave and thermal energy technologies - N. Khan, A. Kalair, N. Abas, A. Haider, 2017

Article | 2017 review of the state-of-the-art in ocean-based clean energy sources: from tidal and wave power to ocean thermal energy conversion and ocean thermo-electric generators

Week 5: Clean technology in context I: international frameworks and standards (2 items)

Recommended reading (2 items)

Overview of European Union climate and energy policies - Ea Energy Analysis, 2012

Document | A useful introduction to the European Union policy framework for clean energy technologies

Reducing Energy Demand: What Are the Practical Limits? - Jonathan M. Cullen, Julian M. Allwood, Edward H. Borgstein, 2011

Article | Review of energy demand reduction as a policy and programme

Week 6: Clean technology in context II: the built environment and social issues (1 items)

Recommended reading (1 items)

Home Truths: A Low-Carbon Strategy to Reduce UK Housing Emissions by 80% by 2050 - Brenda Boardman, 2007

Document | As stated in the foreword: "a comprehensive action plan for massive carbon emission reductions from UK homes in a way which supports the needs of the poorest and most vulnerable"

Week 8: Communicating your research (2 items)

Further reading (1 items)

Preparing and Presenting Effective Research Posters - Jane E. Miller, 2007

Article | A useful short paper with comparisons of good and bad ways of representing the same statement or data on a poster

Recommended textbook (1 items)

How to do your essays, exams and coursework in geography and related disciplines - Peter G. Knight, A. J. Parsons, 2003

[Book](#) | A short overview of how to design your poster: see chapter 17 for "How do I Prepare a Poster Presentation?"

Books used in previous years for research by students (11 items)

These are just a few of the many books available via the Keele University Library (either as e-books or physical copies) that have been used by previous students in their research.

Renewable energy: a global review of technologies, policies and markets - Dirk Assmann, Ulrich Laumanns, Dieter Uh, 2006

[Book](#)

Energy and environment in architecture: a technical design guide - Nick Baker, Koen Steemers, 2000

[Book](#)

Renewable energy: power for a sustainable future - Godfrey Boyle, Open University, 2012

[Book](#)

Energy, society, and environment: technology for a sustainable future - David Elliott, 2003

[Book](#) | An earlier edition of this book is also available from the Library

Energy systems and sustainability: power for a sustainable future - Bob Everett, Open University, 2012

[Book](#) | An earlier edition of this book is also available from the Library

Sustainable solutions for modern economies - Rainer Ho

fer, Royal Society of Chemistry (Great Britain), 2009

[Book](#)

Sustainable energy - without the hot air - David J.C. MacKay, 2009

[Book](#)

Biofuels: biotechnology, chemistry, and sustainable development - David M. Mousdale, 2008

[Book](#)

Understanding renewable energy systems - Volker Quaschnig, 2005

[Book](#)

Energy studies - William Shepherd, D.W. Shepherd, 2014

[Book](#) | PLEASE NOTE: the hard copy of the 3rd edition (2014) and the e-book of the 2nd edition (2000) are both available from the Library

Renewable energy resources - John W. Twidell, Tony Weir, 2015

Book | An earlier edition of this book is also available from the Library