## MODULE DESCRIPTOR

### Module Title

Energy Transition Management

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| Reference | BSM224 | Version | 1 |
| Created | March 2024 | SCQF Level | SCQF 11 |
| Approved | September 2021 | SCQF Points | 15 |
| Amended | June 2022 | ECTS Points | 7.5 |

### Aims of Module

To provide learners with an advanced understanding of the role, function and nature of organisations involved in technical, financial, commercial and contractual activities associated with the energy transition. These include the role of government (both as shaper of the market and as regulator), commercial companies (as developers and as supply chain companies) and other organisations such as researchers and academics, lobbying organisations, trade bodies and others.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

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| 1 | Critically evaluate global energy demand and supply in relation to a transition from carbon-intensive to low carbon sources and the broad technological issues of decarbonisation. |
| 2 | Critically appraise the national, international and intergenerational considerations and the roles of governments and other stakeholders in the justice and equity dimensions of energy transition. |
| 3 | Critically review the objectives and functions of commercial organisations in the energy transition within the constraints of international frameworks and the political economy of differential responsibilities of state and private actors. |
| 4 | Critically analyse the broad principles and practical implementation of financial support mechanisms to deliver the energy transition. |
| 5 | Critically evaluate the risks associated with energy transition projects across the life cycle of a development |

### Indicative Module Content

A detailed review of the global energy system, as it is today, with over 80% of energy derived from hydrocarbons, what an 'energy transition' might involve, and what a future decarbonised global energy system might look like. Government strategy for facilitating the energy transition. Commercial models to facilitate the energy transition. Risks associated with energy transition (political, economic, sociological, technological and environmental). Emerging and evolving regulation. The emergence of a new supply chain and the impact of this. New commercial relationships. Project evaluation and economics

| Module Ref: | BSM224 v1 |
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## Module Delivery

The module is delivered in full-time on campus and part time online modes. For on campus teaching this is a lecture-based course supplemented with in-class discussions. For online, this involves self-directed learning using paper and web-based sources supplemented by video lectures and online discussions.

| Indicative Student Workload | Full Time | Part Time |
|---|---|---|
| Contact Hours | 30 | 30 |
| Non-Contact Hours | 120 | 120 |
| Placement/Work-Based Learning Experience [Notional] Hours | N/A | N/A |
| TOTAL | 150 | 150 |
| *Actual Placement hours for professional, statutory or regulatory body* | | |

## ASSESSMENT PLAN

*If a major/minor model is used and box is ticked, % weightings below are indicative only.*

### Component 1

| Type: | Coursework | Weighting: | 100% | Outcomes Assessed: | 1, 2, 3, 4, 5 |
|---|---|---|---|---|---|
| Description: | A portfolio of questions that are applied in nature. | | | | |

## MODULE PERFORMANCE DESCRIPTOR

### Explanatory Text

Component 1 comprises 100% of the module grade. To pass the module, a D grade is required.

| Module Grade | Minimum Requirements to achieve Module Grade: |
|---|---|
| **A** | A |
| **B** | B |
| **C** | C |
| **D** | D |
| **E** | E |
| **F** | F |
| **NS** | Non-submission of work by published deadline or non-attendance for examination |

## Module Requirements

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|---|---|
| Prerequisites for Module | None. |
| Corequisites for module | None. |
| Precluded Modules | None. |

## INDICATIVE BIBLIOGRAPHY


1. Lees, E. and Vi?uales, J.E. (2019). *The Oxford Handbook of Comparative Environmental Law*. Oxford Online.
2. Mackay, D. (2009). *Sustainable Energy - without the hot air* . Cambridge: UIT.
3. Morton, O. (2016). *The Planet Remade: How Geoengineering Could Change the World*. London: Granta Books.
4. Smil, V. (2017). *Energy and Civilisation: A History*. Massachusetts: The MIT Press.
5. Smil, V (2017). *Energy Transitions: Global and National Perspectives*. Connecticut: Praeger.