

MODULE DESCRIPTOR

Module Title

Renewable Energy Management

Reference	BSM158	Version	5
Created	January 2024	SCQF Level	SCQF 11
Approved	September 2018	SCQF Points	15
Amended	March 2024	ECTS Points	7.5

Aims of Module

To provide managers with an understanding of the fundamental commercial and management diversity of the renewables/sustainable low-carbon energies portfolio. This module will examine the business opportunities of low-carbon energies including the industry structure, market framework, energy policies, financing, risk management, regulatory mechanisms and technologies.

Learning Outcomes for Module

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

- 1 Critically appraise the key issues pertaining to renewable and sustainable energy and develop a critical perspective of how the sector is developing and the ways in which it will continue to evolve.
- 2 Critically evaluate the electricity market framework, e.g., in the UK, and the policy instruments and discourse in addressing regulation to create demand pull for new technologies to bring them into the generation mix.
- 3 Create a reflective approach to examining the debates in renewable/sustainable energy management in the electricity, industry and transport sectors and demand side considerations.
- 4 Critically analyse the key issues within the renewable energy sector including financial, commercial, technological, political and regulatory practices developing across this sector.

Indicative Module Content

An overview of renewable and sustainable energy sources, technologies and industry structures. A critical review of the energy management challenges for the electricity, industry and transport sectors, including energy economics, energy drivers, business drivers and energy priorities. Appraisal of business opportunities for players in the energy environment including corporate funding and the skills landscape. An introduction to energy policy within the UK, EU and International context. Case study analysis of renewable energy business opportunity appraisal and development.

Module Delivery

On Campus Mode: The module is delivered by on campus lectures, interactive work, student presentations and plenary review, and case study tutorials and directed self-study. Online Mode: The module is delivered in online mode by directed self-study materials and case studies for asynchronous learning, supported by synchronous online tutorials, interactive work/presentations and plenary review.

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
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

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
Description:	Written coursework				

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

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

INDICATIVE BIBLIOGRAPHY

- 1 TWIDELL, J. and Weir, A.D., 2021. *Renewable Energy Resources*. 4th ed. London: Taylor & Francis. *ebook ebook*
- 2 PEAKE, S., 2017. *Renewable energy: Power for a Sustainable Future*. 4th ed. Oxford: Oxford University Press.
- 3 ARMSTRONG, J., 2022. *The Future of Energy: The 2023 guide to the energy transition*. Energy Technology Publishing.
- 4 INTERNATIONAL ENERGY AGENCY, 2023. *Energy Technology Perspectives 2023*. Paris: IEA. *ebook*
- 5 Journals: *Renewable Energy*; *Renewable Energy Focus*