

M1268 Master of Renewable and Sustainable Energy

Academic Chair: Dr Xiangpeng Gao
(X.Gao@murdoch.edu.au)

Start Date: Semester 1 2026

Option: Project

Year 1 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	PEN592 Energy in Society	3	PEN504 Greenhouse Gas Reporting and Life Cycle Assessment	3
	PEN591 Energy Policy	3	PEN590 Energy Systems	3
	PEN594 Energy Auditing and Management	3	PEN593 Energy Economics	3
	PEN597 Climate Change Science and Policy	3	PEN598 Carbon Management	3
	Total	12	Total	12
Year 2 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	PEN628 Sustainable Energy Development	6	PEN600 Energy Storage	3
	Specified Elective	3	Specified Elective	3
	Specified Elective	3	Specified Elective	3
			Specified Elective	3
	Total	12	Total	12

TOTAL CREDIT POINTS 48

Semester 1 notes	Semester 2 notes
<p>List of Specified Electives available in Semester 1:</p> <p>PEN505 Climate Change Risk Assessment, Adaptation Planning and Resilience – 3 CP</p> <p>PEN670 Energy Efficient Buildings – 3 CP</p> <p>PEN634 Solar Thermal and Biomass Energy – 3 CP</p> <p>ENV556 Principles of Environmental Impact Assessment – 3 CP</p>	<p>List of Specified Electives available in Semester 2:</p> <p>PEN637 Applied Solar Photovoltaics – 3 CP</p> <p>PEN639 Wind Energy and Hydroelectricity – 3 CP</p> <p>PEN601 Smart Low Carbon Cities – 3 CP</p> <p>ENV680 Climate Change Adaptation: Ecosystems and Societies – 3 CP</p> <p>ENG630 Hydrogen Systems – 3 CP</p>

Please note: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the course. This information is correct as at 20/11/2025.

M1268 Master of Renewable and Sustainable Energy

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Start Date: Semester 1 2026

Option: Dissertation

Year 1 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	PEN592 Energy in Society	3	PEN504 Greenhouse Gas Reporting and Life Cycle Assessment	3
	PEN591 Energy Policy	3	PEN590 Energy Systems	3
	PEN594 Energy Auditing and Management	3	PEN593 Energy Economics	3
	PEN597 Climate Change Science and Policy	3	PEN598 Carbon Management	3
	Total	12	Total	12
Year 2 – 2027	Semester 1 Units	CP	Semester 2 Units	CP
	PEN624 Renewable and Sustainable Energy Dissertation (Y) ¹	6	PEN624 Renewable and Sustainable Energy Dissertation (Y) ¹	6
	Specified Elective	3	Specified Elective	3
	Specified Elective	3	Specified Elective	3
	Total	12	Total	12

TOTAL CREDIT POINTS 48

Semester 1 notes	Semester 2 notes
<p>List of Specified Electives available in Semester 1:</p> <p>PEN505 Climate Change Risk Assessment, Adaptation Planning and Resilience – 3 CP</p> <p>PEN670 Energy Efficient Buildings – 3 CP</p> <p>PEN634 Solar Thermal and Biomass Energy – 3 CP</p> <p>ENV556 Principles of Environmental Impact Assessment – 3 CP</p>	<p>List of Specified Electives available in Semester 2:</p> <p>PEN637 Applied Solar Photovoltaics – 3 CP</p> <p>PEN639 Wind Energy and Hydroelectricity – 3 CP</p> <p>PEN601 Smart Low Carbon Cities – 3 CP</p> <p>ENV680 Climate Change Adaptation: Ecosystems and Societies – 3 CP</p> <p>ENG630 Hydrogen Systems – 3 CP</p> <p>PEN600 Energy Storage – 3 CP</p>

¹ Enrolment in PEN624 (Y) requires payment of the full unit fee (12 CP) at the commencement of the teaching period (Semester 1, 2027).

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