

# M1268 Master of Renewable and Sustainable Energy

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

Start Date: Semester 2 2026

## Option: Project

Year 1 – 2026	Semester 1 Units		CP	Semester 2 Units		CP
				PEN504 Greenhouse Gas Reporting and Life Cycle Assessment		3
				PEN590 Energy Systems		3
				PEN593 Energy Economics		3
				PEN592 Energy in Society		3
				<b>Total</b>	12	
Year 2 – 2027	Semester 1 Units		CP	Semester 2 Units		CP
	PEN591 Energy Policy		3			
	PEN594 Energy Auditing and Management		3			
	PEN597 Climate Change Science and Policy		3			
	PEN598 Carbon Management		3			
		<b>Total</b>	12			

After completing their first year of study, students transition to a trimester-based study pattern due to unit availability.

Year 2 – 2027	Trimester 1 Units		CP	Trimester 2 Units		CP	Trimester 3 Units		CP
							ENS600 Sustainable Project Development and Management		6
							Specified Elective		3
								<b>Total</b>	9
Year 3 – 2028	Trimester 1 Units		CP	Trimester 2 Units		CP	Trimester 3 Units		CP
	Specified Elective		3	ENS602 Renewable Energy Resources and System Modelling		6			
	Specified Elective		3						
	Specified Elective		3						
		<b>Total</b>	9		<b>Total</b>	6			

**TOTAL CREDIT POINTS 48**

Trimester 1 notes	Trimester 2 notes	Trimester 3 notes
Available specified electives: <b>ENS505</b> Carbon Markets and Offsets in Practice (3 CP) <b>ENS508</b> Climate Change Risk Assessment and Adaptation Planning (3 CP) <b>ENS509</b> Corporate Sustainability Management Practice (3 CP)		Available specified electives: <b>ENS500</b> Just Transition - Renewable Energy and Beyond (3 CP) <b>ENG570</b> Circular Economy and Innovation (3 CP)

**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 04/06/2026.

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Start Date: Semester 2 2026

## Option: Dissertation

Year 1 – 2026	Semester 1 Units		CP	Semester 2 Units		CP
				PEN504 Greenhouse Gas Reporting and Life Cycle Assessment		3
				PEN590 Energy Systems		3
				PEN593 Energy Economics		3
				PEN592 Energy in Society		3
				<b>Total</b>	12	
Year 2 – 2027	Semester 1 Units		CP	Semester 2 Units		CP
	PEN591 Energy Policy		3			
	PEN594 Energy Auditing and Management		3			
	PEN597 Climate Change Science and Policy		3			
	PEN598 Carbon Management		3			
		<b>Total</b>	12			

After completing their first year of study, students transition to a trimester-based study pattern due to unit availability.

Year 2 – 2027	Trimester 1 Units		CP	Trimester 2 Units		CP	Trimester 3 Units		CP
							ENS604 Dissertation in Decarbonisation, Energy and Sustainability Management (TS32)*		6
							Specified Elective		3
							<b>Total</b>		9
Year 3 – 2028	Trimester 1 Units		CP	Trimester 2 Units		CP	Trimester 3 Units		CP
	ENS604 Dissertation in Decarbonisation, Energy and Sustainability Management (TS32)*		3	ENS604 Dissertation in Decarbonisation, Energy and Sustainability Management (TS32)*		3			
	Specified Elective		3	Specified Elective		6			
		<b>Total</b>	6		<b>Total</b>	9			

**TOTAL CREDIT POINTS 48**

Trimester 1 notes	Trimester 2 notes	Trimester 3 notes
Available specified electives: <b>ENS505</b> Carbon Markets and Offsets in Practice (3 CP) <b>ENS508</b> Climate Change Risk Assessment and Adaptation Planning (3 CP) <b>ENS509</b> Corporate Sustainability Management Practice (3 CP)	Available specified electives: <b>ENS601</b> Decarbonising Heavy Industry (6 CP) <b>ENS602</b> Renewable Energy Resources and System Modelling (6 CP) <b>ENS603</b> Smart Sustainable Cities, Infrastructure and Buildings (6 CP)	Available specified electives: <b>ENS500</b> Just Transition – Renewable Energy and Beyond (3 CP) <b>ENS570</b> Circular Economy and Innovation (3 CP)

\*Enrolment in ENS604 Dissertation in Decarbonisation, Energy and Sustainability Management requires payment of the full unit fee (12 CP) at the commencement of the teaching period.

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