SCIE90014 Renewable Energy

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 36 hours Total Time Commitment: 120 hours
Prerequisites:	<table><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr><tr><td>ENGR90028 Introduction to Energy Systems</td><td>Semester 1</td><td>12.50</td></tr></table>AND<table><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr><tr><td>ENGR90029 Analysing Energy Systems</td><td>Semester 1</td><td>12.50</td></tr></table>
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability
Coordinator:	Dr Roger Dargaville
Contact:	**rogerd@unimelb.edu.au (mailto:rogerd@unimelb.edu.au)**
Subject Overview:	Technical details of a broad range of renewable energy technologies will be described, including solar photovoltaics, solar thermal, wind, wave, tidal, hydro, geothermal, biomass and biofuels. Integration of the generating technologies with storage and ability to meet demand will also be covered.
Objectives:	Upon completion of the subject the student will be able to - # Accurately describe the technical details of a broad variety of renewable energy technologies # Discuss the relative merits of the different technologies in terms of cost, variability and technical constraints
Assessment:	Write-ups of practical assignments (6 over the semester at 500 words each) (50%) and a 2 hour end of semester exam (50%)
Prescribed Texts:	None

Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	# Ability to communicate effectively on the technical topics to both a technically trained audience and to the general public # Understanding of the broad implications of technological change in the 21st century
Related Course(s):	Master of Energy Systems