ENERGY AND RESOURCES

ABOUT THIS UNIT OF STUDY
This unit will examine the critical roles that energy and resource usage play in global, national and local sustainability. The need for developed economies to decarbonise their energy supply and for developing countries to have access to clean energy and sustainable resources will require major changes in technology, policy and business systems. This unit of study will cover the fundamentals of energy and resource supply; sustainable supply and use of energy for industry, business and consumers; life cycle analysis; energy security and alternative energy systems. Students will gain an understanding of: different sources of energy and their uses; the economic, environmental and societal contexts of energy and resource use; the need and scope for a transition from conventional energy sources; sound principles for analysing different resource and energy supply options; the role of international agreements and federal policy in influencing resource and energy use.

Professor Tony Vassallo, from the Faculty of Engineering and Information and Technologies, coordinates SUST5003 Energy and Resources.

WHY YOU SHOULD TAKE THIS UNIT OF STUDY
Almost every aspect of our society now depends critically on a reliable supply of energy. Imagine education, health, communication, entertainment and employment without a reliable supply of affordable energy. However we are now entering a time where we must transition from a carbon based energy system to a renewables or low carbon based energy supply. This transition will impact the way we live our lives, and the way the Australian and global economies evolve.

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