

Title	Description	Author	Year	Resource Type	Media Type	Licensing Condition	URL
ENERGY EFFICIENCY							
Topic 1: Sustainable energy practices							
Introduction to sustainability	Powerpoint presentation addressing issues on what sustainability is and what it means for VET	Byron Region Community College	2010	Presentation slides	PDF	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Use Sustainable Energy practices	Guide describes the learning program and includes information for learners at the front line operations level on the topics of energy, lean thinking and sustainable energy practice	HFS Enterprises & Consulting	2010	Learner Guide/Unit	PDF	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Develop and manage sustainable energy practices	The guide is aimed at learners at the supervisor, team leader and manager level and has information on energy, lean thinking and sustainable energy practice.	HFS Enterprises & Consulting	2010	Learner Guide/Unit	PDF	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Sustainable energy practice	The guide provides information, resources and strategies to support VET practitioners in their training, monitoring and assessing roles. The guide includes information on the intended audience, program outlines, trainer/mentor role, competency elements and performance criteria, assessment strategies, reading lists, course handouts, industry case studies, website links and a glossary of terms.	HFS Enterprises & Consulting	2010	Teacher Guide	PDF	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Topic 2: Sustainability in industry practice							
Lean and Green across NSW Industry	Provides background information, resources, including learning and assessment tools for learning facilitators and mentors to use with students undertaking the energy efficiency units of competency contained within the scope of the Competitive Manufacturing Training Package.	HFS Enterprises & Consulting	2010	Facilitator Guide	PDF	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Introduction to sustainability in retailing	Powerpoint presentation addressing issues on what sustainability in the retail industry would look like, with case studies.	Byron Region Community College	2010	Presentation slides	PPT	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Sustainability and energy efficiency in retail training	Fact sheet on switching to renewable energy	Byron Region Community College	2010	Fact sheet	PDF	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Introduction to energy efficiency in retailing	Presentation on why energy efficiency in retailing matters, ways to improve energy efficiency, key issues for retailers, and improving eco-literacy	Byron Region Community College	2010	Presentation slides	PPT	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Analyse and apply sustainability skills to learning programs: Construction Industry	Resource is intended for educators, teachers, trainers, facilitators, assessors, instructional designers, training and assessment consultants working in the vocational education and training (VET) sector in the electrical industry to support the delivery of the new Diploma-level Sustainable Practice Skill Set from the TAE10 Training and Education Training Package: TAEUSUS01A Analyse and apply sustainability skills to learning programs.	National Centre for Sustainability	2011	Supplement for learning unit	Word	CC BY	http://www.ibsa.org.au/products-and-services/free-downloads/skills-for-sustainability.aspx
Analyse and apply sustainability skills to learning programs: Electrical Industry	Resource is intended for educators, teachers, trainers, facilitators, assessors, instructional designers, training and assessment consultants working in the vocational education and training (VET) sector in the electrical industry to support the delivery of the new Diploma-level Sustainable Practice Skill Set from the TAE10 Training and Education Training Package: TAEUSUS01A Analyse and apply sustainability skills to learning programs.	National Centre for Sustainability	2011	Supplement for learning unit	Word	CC BY	http://www.ibsa.org.au/products-and-services/free-downloads/skills-for-sustainability.aspx
Analyse and apply sustainability skills to learning programs: Financial Services Industry	Resource is intended for educators, teachers, trainers, facilitators, assessors, instructional designers, training and assessment consultants working in the vocational education and training (VET) sector in the financial services industry to support the delivery of the new Diploma-level Sustainable Practice Skill Set from the TAE10 Training and Education Training Package: TAEUSUS01A Analyse and apply sustainability skills to learning programs.	National Centre for Sustainability	2011	Supplement for learning unit	Word	CC BY	http://www.ibsa.org.au/products-and-services/free-downloads/skills-for-sustainability.aspx
Analyse and apply sustainability skills to learning programs: Hospitality and Tourism Industry	Resource is intended for educators, teachers, trainers, facilitators, assessors, instructional designers, training and assessment consultants working in the vocational education and training (VET) sector in the Tourism and Hospitality industry to support the delivery of the new Diploma-level Sustainable Practice Skill Set from the TAE10 Training and Education Training Package: TAEUSUS01A Analyse and apply sustainability skills to learning programs.	National Centre for Sustainability	2011	Supplement for learning unit	Word	CC BY	http://www.ibsa.org.au/products-and-services/free-downloads/skills-for-sustainability.aspx
Analyse and apply sustainability skills to learning programs: Manufacturing Industry	Resource is intended for educators, teachers, trainers, facilitators, assessors, instructional designers, training and assessment consultants working in the vocational education and training (VET) sector in the Manufacturing industry to support the delivery of the new Diploma-level Sustainable Practice Skill Set from the TAE10 Training and Education Training Package: TAEUSUS01A Analyse and apply sustainability skills to learning programs.	National Centre for Sustainability	2011	Supplement for learning unit	Word	CC BY	http://www.ibsa.org.au/products-and-services/free-downloads/skills-for-sustainability.aspx
Analyse and apply sustainability skills to learning programs: Plumbing Industry	Resource is intended for educators, teachers, trainers, facilitators, assessors, instructional designers, training and assessment consultants working in the vocational education and training (VET) sector in the Plumbing industry to support the delivery of the new Diploma-level Sustainable Practice Skill Set from the TAE10 Training and Education Training Package: TAEUSUS01A Analyse and apply sustainability skills to learning programs.	National Centre for Sustainability	2011	Supplement for learning unit	Word	CC BY	http://www.ibsa.org.au/products-and-services/free-downloads/skills-for-sustainability.aspx
Information and case studies for Australian businesses: Natural refrigerants case studies	Case studies to give decision makers information to make decisions on the potential of natural refrigerants	Heamy, Swinard, Pand and West		Case Studies	PDF	Unknown	http://www.airah.org.au/mis15_prod/Content_Files/TechnicalPublications/natural-refrigerants-case-studies.pdf
Energy 101: Energy efficient data centres	Information on energy efficient data centres	US Department of energy	2011	Information	Video	Unknown	http://www.youtube.com/watch?v=xG5dZu1to
Energy efficient building systems	Lecture discussing how energy usage in buildings can be reduced, resulting in huge energy savings. This can be achieved by using existing hardware, energy efficiency modelling tools and algorithms (such as 'Energy Plus') for retrofit of old and the design of new buildings.	University of California TV	2008	Lecture	Video	CC Licence	http://www.youtube.com/watch?v=1mTbRBDZU8&feature=reinfu
Topic 3: Energy efficiency as a way of life							
Energy efficiency lifestyle program: Part 1	Teacher notes and guide to learner activities. Short 10 hour Energy Efficiency Lifestyle program for learners interested in reducing their household energy use and costs.	TAFE NSW	2011	Teacher Guide	Word	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=273&type=O
Energy efficiency lifestyle program: Part 2	Learners activities on energy efficiency to support learners who are interested in developing skills and knowledge to implement sustainability measures in their homes.	TAFE NSW	2011	Learner assessment activities	Word	All rights reserved NSW DET but permission granted to teachers and students at VET to print, copy and use	https://www.training.nsw.gov.au/clearse/Preview.do?no=274&type=O
Energy 101: Day lighting	Explaining how the concept of day lighting maximises sunshine to preserve energy and save on electricity costs.	US Department of energy	No date	Information	Video	Unknown	http://energy.gov/videos/energy-101-daylighting
Energy efficient buildings and appliances	Lecture discussing what it takes to move energy efficiency research from the lab to the real world	University of California TV	2008	Lecture	Video	CC Licence	http://www.youtube.com/watch?v=rcatmYQRI4&feature=reinfu
Energy 101: Home Energy assessment	Explanation on how a home energy check up can expose areas that are wasting energy and costing money.	US Department of energy	No date	Information	Video	Unknown	http://energy.gov/videos/energy-101-home-energy-assessment
Topic 4: Educator guide to teaching sustainability							
Analyse and apply sustainability skills to learning programs: Facilitator Guide	The unit is aimed at modelling best practice in educating for sustainability, while also teaching about sustainability. It helps educators assist students in applying skills for sustainability.	National Centre for Sustainability	2011	Facilitator Guide	PDF	CC BY	http://www.ibsa.org.au/products-and-services/free-downloads/skills-for-sustainability.aspx
Topic 5: Alternative energy: geothermal, solar and wind energy							
Energy 101: Concentrating solar power	Information on solar energy	US Department of energy	No date	Information	Video	Unknown	http://energy.gov/videos/energy-101-concentrating-solar-power
Energy 101: Solar PV	Information on how solar photovoltaic (PV) can generate clean cost-effective power anywhere the sun shines	US Department of energy	No date	Information	Video	Unknown	http://energy.gov/videos/energy-101-solar-pv
Energy 101: Cool roofs	Information on why some roofs are cooler than others.	US Department of energy	No date	Information	Video	Unknown	http://energy.gov/videos/energy-101-cool-roofs
Solar and Wind	Technology management program lecture series looking at takes a look at more efficient and renewable energy sources, solar and wind power, production of ethanol, and more energy efficient cars	University of California TV	2008	Lecture	Video	CC Licence	http://www.youtube.com/watch?v=5Cui_bvhu8&feature=reinfu
The power of the sun: The science of the silicon solar cell	Narration of the silicon solar cell, currently the most important generator of solar electricity.	University of California TV	2008	Information Narration	Video	CC Licence	http://www.youtube.com/watch?v=udhckMBTKY0&feature=reinfu
Energy 101: Geothermal Heat pumps	Explanation on how geothermal energy works	US Department of energy	No date	Information	Video	Unknown	http://energy.gov/videos/energy-101-geothermal-heat-pumps
Energy 101: Wind turbines	Information on wind turbines and how they work	US Department of energy	No date	Information	Video	Unknown	http://energy.gov/videos/energy-101-wind-turbines
Topic 6: Energy efficiency, the economy, and the future							
Energy efficiency: The challenge and the opportunity	Lecture on how energy efficiency can increase GDP by making the economy more efficient	University of California TV	2009	Lecture	Video	CC Licence	http://www.youtube.com/watch?v=56Ccz56U48
Energy crisis: Will technology save us?	Lecture on how the latest information on the earth's total energy budget to see what forms of energy we will be harnessing in the future	University of California TV	2008	Lecture	Video	CC Licence	http://www.youtube.com/watch?v=cm18ogElen&feature=reinfu
Energy: Facts, challenges and responses	Lecture on energy challenges facing the world and how the development of advanced biofuels and a new generation of nuclear power could be alternatives to fossil fuels	University of California TV	2008	Lecture	Video	CC Licence	http://www.youtube.com/watch?v=JAPP76duGB8&feature=reinfu
Renewable Energy (OCW / OER)							
The Energy Crisis: Past and present		MIT OCW (Jacobs)		Full Course	HTML (DPI)	CC: BY NC SA	http://ocw.mit.edu/courses/history/21b-207-the-energy-crisis-past-and-present-fall-2010/
Renewable Energy		ESA21		Short Course	HTML & PDF	© but free with BY NC	http://esa21.kemnsw.edu.au/renewable.htm
EnergyCrisis		Intelligent Energy Europe Consortium		Educational Game	HTML & Flash	© but free to play online	http://www.energycrisis.eu/
Energy in a Changing World		Penn State University OCW (Cole)		Full Course	HTML (DPI)	CC: BY NC SA	https://www.e-education.psu.edu/energy01/
Energy Sources: An introduction to Energy Resources		Open University - OpenLearn		Short Course	HTML (Mtu)	CC: BY NC SA	http://openlearn.open.ac.uk/course/view.php?id=4301
The Energy Crisis: Past and present		MIT OCW (Jacobs)		Full Course	HTML (DPI)	CC: BY NC SA	http://ocw.mit.edu/courses/history/21b-207-the-energy-crisis-past-and-present-fall-2010/
Renewable Energy		ESA21		Short Course	HTML & PDF	© but free with BY NC	http://esa21.kemnsw.edu.au/renewable.htm
Energy in a Changing World		Open University - OpenLearn		Short Course	HTML (Mtu)	CC: BY NC SA	http://www.e-education.psu.edu/energy01/
Energy Sources: An introduction to Energy Resources		Open University - OpenLearn		Short Course	HTML (Mtu)	CC: BY NC SA	http://openlearn.open.ac.uk/course/view.php?id=4301
Renewable Energy		Wikipedia		Article with links	HTML	CC: BY SA	http://en.wikipedia.org/wiki/Renewable_energy
Solar Cells		Deft University of Technology (Zeman)		Full Course	HTML	CC: BY NC SA	http://ocw.mit.edu/courses/history/21b-207-the-energy-crisis-past-and-present-fall-2010/
Energy Sources: Wave Energy		Open University - OpenLearn		Short Course	HTML (Mtu)	CC: BY NC SA	http://openlearn.open.ac.uk/course/view.php?id=4301
Energy Sources: Tidal Energy		Deft University of Technology (Zeman)		Full Course	HTML	CC: BY NC SA	http://ocw.mit.edu/courses/history/21b-207-the-energy-crisis-past-and-present-fall-2010/
Offshore Hydromechanics		US Dept of Energy		Information Service	HTML	PD	http://www.eere.energy.gov/topics/water.html
Water		Open University - OpenLearn		Short Course	HTML (Mtu)	CC: BY NC SA	http://openlearn.open.ac.uk/course/view.php?id=4184
Energy Sources: Hydropower							