



GREEN
CROSS
Australia



FUTURE SPARKS

STUDENT RESOURCES

Future Sparks is a Green Cross Australia project in partnership with the Department of Climate Change and Energy Efficiency, CSIRO and Clean Energy Council.



You Tube videos

<http://www.youtube.com/watch?v=vO7UeSDNeX8&feature=related>

http://www.youtube.com/watch?v=_s9dxc_jVIY&feature=related

<http://www.youtube.com/watch?v=oTyWeW5MEio&feature=related>

<http://www.youtube.com/watch?v=Fls90kSkmps>

<http://www.youtube.com/watch?v=NaLBvHYyUA&feature=related>

<http://www.youtube.com/watch?v=TUONjdmFqHI&feature=related>

<http://www.youtube.com/watch?v=qxd8YbyzKsM&feature=share>

<http://www.youtube.com/watch?v=kVskMh0Etcs&feature=related>

60 second science videos created by students about energy.

How the sun emits energy

<http://60secondscience.net/entry-gallery/2011-entry-gallery/australian-open/viewvideo/463/australian-open/how-the-sun-emits-energy->

Elastic potential energy

<http://60secondscience.net/entry-gallery/viewvideo/697/international-secondary--high-school/elastic-potential-energy-international-secondary-student-winner>

Kinetic energy

<http://60secondscience.net/entry-gallery/viewvideo/686/australian-primary-school/kinetic-energy>

Kinetic energy

<http://60secondscience.net/entry-gallery/viewvideo/14/secondary-school-winners/naracoorte-high-school>

Podcasts

Climate change blowin' in the wind

<http://www.csiro.au/en/Portals/Multimedia/CSIROpod/Climate-change-blowin-in-the-wind.aspx>

Solving Australia's energy puzzle

<http://www.csiro.au/en/Portals/Multimedia/CSIROpod/Solving-energy-puzzle.aspx>

Solar power tower

<http://www.csiro.au/en/Portals/Multimedia/CSIROpod/Solar-power-tower.aspx>

Growing beyond oil with biofuel

<http://www.csiro.au/Portals/Multimedia/CSIROpod/Growing-beyond-oil-with-biofuel.aspx>

Australia's national solar energy centre

<http://www.csiro.au/Portals/Multimedia/CSIROpod/National-Solar-Energy-Centre.aspx>

Readings

Energy technology

<http://www.csiro.au/Organisation-Structure/Divisions/Energy-Technology.aspx>

Solar power

<http://www.csiro.au/en/Outcomes/Energy/Renewables-and-Smart-Systems/solar-power.aspx>

Renewables and smart systems

<http://www.csiro.au/Outcomes/Energy/Renewables-and-Smart-Systems.aspx>

Energy

<http://www.csiro.au/Outcomes/Energy.aspx>

Powering transport

<http://www.csiro.au/Outcomes/Energy/Powering-Transport.aspx>

Energy from oil and gas

<http://www.csiro.au/Outcomes/Energy/Energy-from-oil-and-gas.aspx>

Energy from coal

<http://www.csiro.au/Outcomes/Energy/Energy-from-coal.aspx>

Intelligent energy

<http://www.csiro.au/Outcomes/Energy/Renewables-and-Smart-Systems/Intelligent-Energy.aspx>

Understanding and planning energy futures

<http://www.csiro.au/Outcomes/Energy/Energy-modelling-and-decision-support.aspx>

Hands on activities

Not so green machines

<http://www.csiro.au/helix/sciencemail/activities/CarEmissionsCalculator.html>

How much electricity do you use

<http://www.csiro.au/helix/sciencemail/activities/energyuse.html>

Pizza box solar oven

<http://www.csiro.au/helix/sciencemail/activities/SolarOven.html>

Solar water purifier

<http://www.csiro.au/helix/sciencemail/activities/WaterPurifier.htm>

Charge up your light bulbs

<http://www.csiro.au/helix/sciencemail/activities/ChargeYourLightbulbs.html>

Glow worm

<http://www.csiro.au/helix/sciencemail/activities/glowworm.html>

Franklin's bells

<http://www.csiro.au/helix/sciencemail/activities/franklinsbells.html>

Zap!

<http://www.csiro.au/helix/sciencemail/activities/Spark.html>

Lemon Battery Challenge

<http://www.csiro.au/helix/sciencemail/activities/lemonbattery.html>

Static electricity

<http://www.csiro.au/Portals/Education/Programs/Do-it-yourself-science/Physics-experiments/static-electricity-activity.aspx>

Research links

Climate Change

A Student's Guide to Climate Change

<http://epa.gov/climatechange/kids/index.html>

Cool the Globe www.cooltheglobe.com/index

CSIRO <http://www.csiro.au/science/Changing-Climate.html>

PEW Centre on Global Climate Change

<http://www.pewclimate.org/climate-techbook>

UK Met Office Climate Change <http://www.metoffice.gov.uk/climate-change/guide>

United Nations Environment Program

<http://www.unep.org/climatechange/Introduction/tabid/233/Default.aspx>

United States Global Change Research Program

<http://www.globalchange.gov/resources/educators/toolkit/materials>

Geoengineering

http://www.google.com.au/search?q=geoengineering%2Bclimate+change+images&hl=en&qscrl=1&nord=1&rlz=1T4ADSA_enAU418AU418&site=webhp&prmd=imvns&tbm=isch&tbo=u&source=univ&sa=X&ei=PwTLTpf3AsmpiAeDn5XFDg&ved=0CCAQsAQ&biw=1024&bih=587