

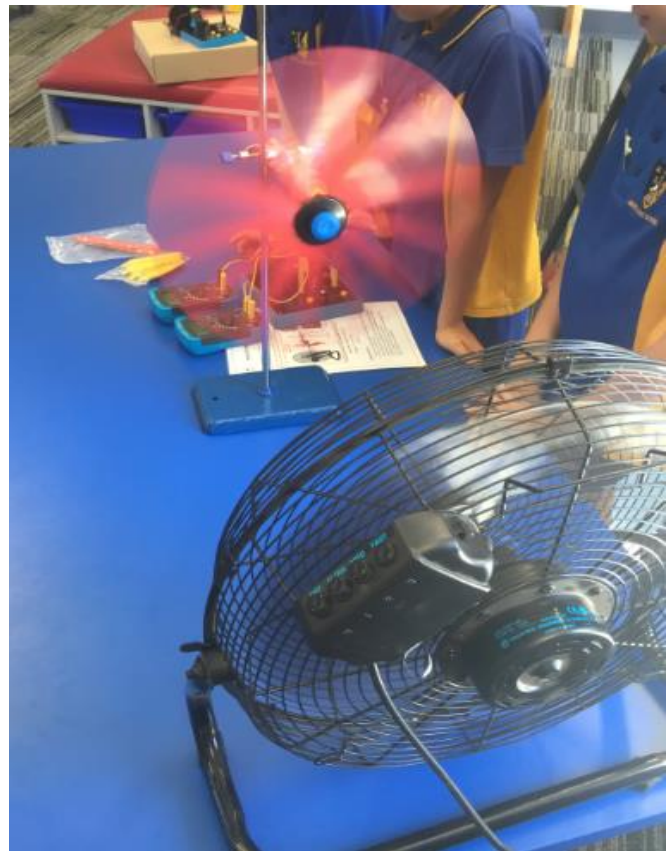
# Energy Matters

Rich in Coal and Gas, the South West Darling Downs is a hub for resources that are used in electricity production. But what does this reliance on non-renewable resources mean for our future?

Supported by the Griffith University Green Energy Laboratory, Year 6 students are engaged through a number of hands on activities that allow them to develop a greater understanding of how electricity is generated; the potential of sustainable energy; the role of circuitry in allowing the transfer of electricity around our homes, and how energy can be transformed.

Finally, students investigate the potential of renewable energies. Appointed as Energy Engineers, students are asked to design, create and test a wind turbine through the investigation of a range of variables that could affect energy production.

By the end of this day long adventure, student will come to understand, that when it comes a sustainable future, Energy Matters!



## Curriculum Intent:

Electrical energy can be transferred and transformed in electrical circuits and can be generated from a range of sources (ACSSU097)

Energy appears in different forms, including movement (kinetic energy), heat and potential energy, and energy transformations and transfers cause change within systems (ACSSU155)

Decide variables to be changed and measured in fair tests, and observe measure and record data with accuracy using digital technologies as appropriate (AC SIS104)

Identify, plan and apply the elements of scientific investigations to answer questions and solve problems using equipment and materials safely and identifying potential risks (AC SIS103)