

Exciting Energy Holiday Programme

02-09 April 2018



Energy is everywhere; from breathing, eating or riding a bicycle to generation of electricity, nothing can take place without some form of energy.

Join Sci-Bono Discovery Centre as we embark on a journey to explore the concept of Energy and its significance in our daily lives through a range of fun, interactive, and hands-on activities.

Activities Timetable

TIME	MONDAY 2 APRIL	TUESDAY 3 APRIL	WEDNESDAY 4 APRIL	THURSDAY 5 APRIL	FRIDAY 6 APRIL	SATURDAY 7 APRIL	SUNDAY 8 APRIL	MONDAY 9 APRIL
10:00 - 11:00 VENUE	Wireless Energy Festo Lab	Hot and Cold Energy Dow Lab	Fuel Cell Technology Sydney Brenner	Elastic Cruiser Sydney Brenner	Dung Power Sangari Lab	Power of air Festo Lab	Elastic Cruiser Sydney Brenner	Wireless Energy Festo Lab
11:30 - 12:30 VENUE	Elastic Cruiser Sydney Brenner	Dung Power Sangari Lab	Power of air Festo Lab	Water Bottle Rocket Sydney Brenner	Power of the Sun Sydney Brenner	Fuel Cell Technology Sydney Brenner	Power of Wind Sydney Brenner	Hot and Cold Energy Dow Lab
13:00 - 14:00 VENUE	Exciting Energy Shows SAP Auditorium							
14:30 - 15:30 VENUE	Water Bottle Rocket Sydney Brenner	Power of the Sun Sydney Brenner	Geo-thermal Energy Sydney Brenner	Power of Wind Sydney Brenner	Hot and Cold Energy Dow Lab	Geo-thermal Energy	Water Bottle Rocket Sydney Brenner	Power of the Sun Sydney Brenner

Activities

HOT AND COLD ENERGY What determines coldness or hotness of substances? Is it composition, environment, or combination of elements? Explore chemical energy from some of the household substances through fun and interactive activities and demonstrations.	AGE	COST	ELECTRIC CIRCUITS Navigate and dictate how electricity flows so that you can power up simple electric & electronic circuits such as alarms, Fans, FM etc.	AGE	COST
	8+	FREE		6+	FREE
POWER OF THE SUN Energy from the Sun provides light and sight to humankind. Ever wondered how this energy can be used to generate other forms of energy? Explore this in a hands-on activity and by building and testing your solar powered model.	AGE	COST	WIRELESS ENERGY Wireless Energy is here! Energy flowing to the light-bulb glowing with no wires attached! We're not actually putting electricity in the air, but magnetic fields on air. Let's experiment on this: This is the future; wireless energy will be as common as WI-FI.	AGE	COST
	6+	FREE		7+	R10
GEO-THERMAL ENERGY Did you know that heat from underground can be harnessed as renewable energy? Build your own steam turbine and observe transfer of energy from heat to mechanical energy.	AGE	COST	WATER BOTTLE ROCKET A Rocket is a missile, spacecraft, aircraft or any other vehicle that obtains its thrust from rocket engine. Make your own model and explore energy transfer involved in launching a rocket.	AGE	COST
	8+	R5		6+	FREE
POWER OF WIND Wind is moving air. Did you know that it is one of renewable energy sources? Make your own model and explore how wind is used to produce other forms of energy	AGE	COST	FUEL CELL TECHNOLOGY Global warming is a reality and certainly linked to release of greenhouse gases from cars and production of electricity. Hydrogen fuel cells are however reliable and use hydrogen obtained from the electrolysis of water. See if you can get your hydrogen car moving.	AGE	COST
	6+	R5		7+	FREE
DUNG POWER Electricity generation is very important, overreliance on fossil fuels has warmed up our planet with severe consequences. Biological waste is being used to produce electricity, i.e. biogas. What if we could use cow dung to power our gadgets? Can we do it? Let's find out as we experiment with cow dung in electricity generation.	AGE	COST	ELASTIC CRUISER Stretchy materials are used for different and significant purposes. Did you know that this is due to energy contained by these materials? Make your own cruiser and explore wonders of elasticity and energy.	AGE	COST
	6+	FREE		7+	R5

Floor Activities

DIGITAL PLANETARIUM Explore the universe, galaxies, constellations and energy in the outer space. Show times: 11:00, 12:00, 14:00, &	AGE	COST	EGG HUNT Egg Hunt activity happening every two Days at 14:00.	AGE	COST
	ALL	R10		ALL	FREE

Science Show

EXCITING ENERGY SHOWS Energy is the ability to do work... whether you are getting out of bed in the morning or switching on the light... everything requires energy in some form or the other. Join us as we explore the concept of energy from conservation to transformation and experiment with some of its many amazing forms.	AGE	COST
	ALL	FREE



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