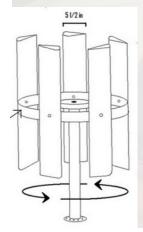
WIND IT UP!

Aim

To devise a machine to utilize wind energy for electrical consumption of CresPion Hall.



General Plan

- Vertical Axis Wind Turbine (VAWT)
- Suitable for low wind speeds in Singapore
- ♦ Generation of voltage via electromagnetic induction
- ♦ Inducing current in secondary circuit as the form of electricity

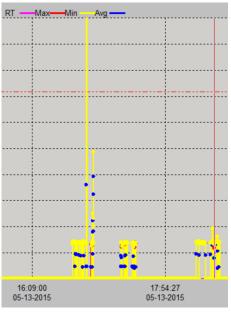
Current Findings/Work Done

♦ Maximum voltage of 7mV generated when a stack of 8 neodymium magnets are moved around manually on top of the coils.

- ♦ Attempted to build first prototype
- Wind speeds are observed to higher intensity in the afternoon







Future Works

- ◊ VAWT Design
 - ◆ Sturdier Base
 - Better rotation mechanism and blade design

- NO. 4990 Max: 4.08 Avg: 2.72 Min: 0.00 RT: 4.08 Time: 18:33:03
- ♦ Improving electrical circuit
 - Increasing voltage
 - Electrical Storage Grid

Done by:

Christofer Kristo CVE/2 & Jeanette Yap ME/2