

IP MARKETPLACE

CONNECTING INNOVATION TO YOUR BUSINESS

TECH OFFER

WIND, SOLAR, AND RAIN HARVESTER



▶ MORE INFORMATION

MEGA-TREND

- Energy and Power
- Future Global Power Generation
- Urbanization

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 4

PATENT/ GRANTED NUMBER

- MY-164584-A

▶ TECHNOLOGY OVERVIEW

A proposed wind, solar and rain harvester is described. The hybrid wind harvester comprises a power-augmentation-guide-vane and a wind turbine sharing a centre axis as the guide vane. The novel power-augmentation-guide-vane has an upper venturi wall duct and lower venturi wall duct inclined at an angle of 2 degrees to 75 degrees from the horizontal plane. The power-augmentation-guide-vane creates a venturi effect to increase the speed of wind entering the wind turbine to harvest more wind energy. A solar panel or solar concentrator is provided on top of the upper wall duct. A rain water passage and storage compartment is provided where rain water

flows from the upper wall duct towards the rain water passage and storage compartment.

CONTACT US!

Dr. Lee Ching Shya

UMCIE Business Officer

Email: leecs@um.edu.my

Phone: +603 – 7967 7351 / 7352