

# 香港綠色創新大獎

## Hong Kong Green Innovations Awards



微風起動垂直軸風力發電  
(配合專利無磁阻低扭力盤式發電機)  
Robin Energy Limited  
Low Initial Torque Wind Power System

Robin Energy Limited致力提高風能轉化為電能的效率，打破風力發電的地域限制，推廣使用可再生能源，以取代化石燃料產生電力，減少環境污染及對化石燃料的依賴。

Robin Energy Limited is dedicated to enhancing the efficiency in converting wind power into electricity, overcoming the limitation of wind power due to geographical constraint. It promotes the use of renewable energy in lieu of fossil fuels for generating electricity, reducing environmental pollution and reliance on fossil fuels.



微風起動垂直軸風力發電系統配合專利無磁阻低扭力盤式發電機使用。發電機的初始扭矩只需0.08Nm，遠低於傳統發電機最少0.29Nm的初始扭矩。

The vertical axis wind turbine power system is operated with a patented magnetic resistance-free electric generator. The initial torque for the generator is only at 0.08Nm, much lower than the traditional ones, which require at least 0.29 Nm.



發電機只需低至每秒1.39米的微風速便可啟動發電，能有效採集、管理和使用風力資源。

The generator can start generating power at a wind speed as low as 1.39 metre per second, which enables the efficient collection, management and use of wind resources.



鋁合金風葉由14件配件組成，方便安裝、保養及運送。

The aluminum wind blade is made up of 14 modularised pieces assembled together and is convenient to install, maintain and deliver.