

再生能源產業推動計畫

執行單位

財團法人金屬工業研究發展中心

計畫主持人

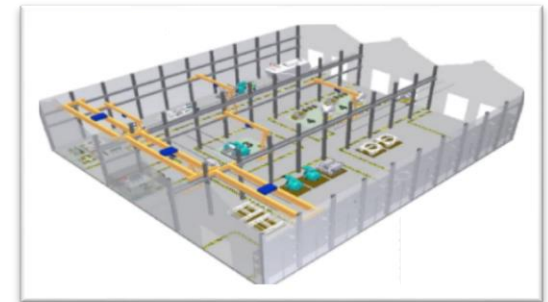
黃聰文

- 本計畫推動重點在於「風力機產業」、「太陽光電模組產業」等兩大分項，透過本計畫整合及協調各方資源，促進產業轉型升級，有效協助國內再生能源產業發展，進而提高國內再生能源使用率。

- 106年8月30日推動離岸風力發電產業國產化聯盟，共同建構國產化供應鏈：以中鋼為主導廠，成立離岸風力機國產化 (Wind-Team) 國際合作聯盟；協助業者與國際風力機廠合作，建立在地化製造生產能量，進而切入國際供應鏈。
- 推動離岸風電基礎建設及建構區域性產業聚落。促成新祥貿易股份有限公司於台中港區評估籌設風力機機艙組裝廠，廠房面積8.6公頃，目前已與台中港務公司完成土地承租簽約。



Wind-Team國際合作聯盟



新祥貿易股份有限公司
風力機機艙組裝廠房規劃

- **促成離岸風力發電產業技術引進：**

促成離岸風力發電產業(中鋼、台電、金屬中心、永傳、船舶中心)合作引進荷蘭能源研究中心(ECN)離岸風場運轉維護技術。建立離岸區塊風場運轉效率、風險管理、安全機制與降低運維成本等技術能力。

- **推動離岸風力發電產業專區：**

推動台中港工業專區(II)成為離岸風電產業專區，預計107年完成106號重件碼頭，108年完成產業專區水、電、道路、綠帶等公共設施。

- **陸域中小型風力機產業推動：**

協助晶元綠能有限公司進行氣象儀器整合、風場評估，以及投入風場建置。雲林麥寮封場於106年7月18日正式售電成為台灣「第1家自有品牌小型風力機業者」完成陸域小型風力機風場開發及躉售業者。

- **推動太陽光電產業之發展：**

因應「5+2產業創新計畫-綠能科技」高值化轉型策略，協助業者排除投資障礙，並針對太陽光電模組業者進行產業資訊分析，以作後續推動太陽光電模組產業之依據。

Renewable Energy Industry Promotion Project

Execution Unit

Metal Industries Research & Development Center

Project Director

Tsung-Wen Huang

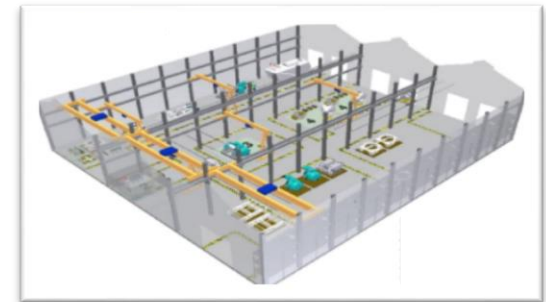
- This project focus on promotion of “wind turbine industry” and “solar photovoltaic module industry”. Integration of resources to promote industrial restructuring and upgrading, that will assist for renewable energy industry development effectively.

- Promoting the establishment of offshore wind power industry localization alliance (**Wind-Team**) on August 30, 2017. Assisting industry cooperation with the international wind turbine factory and promoting localization for wind power supply chain.

- Promoting the offshore wind power industry infrastructure development and establishing technology industrial park. SHIN SHANG TRADE CO., LTD is preparing a wind turbine nacelle assembly factory in Taichung Harbor and it's already have land lease agreement with Port of Taichung Taiwan International Ports corporation, LTD.



Wind-Team International Co-operative Alliance



SHIN SHANG TRADE CO., LTD.
Nacelle Assembly Factory Planning

- **Promoting offshore wind power industry technological introduction.**

Promoting offshore wind power industry cooperation (CSC, Taipower, MIRDC, Taiwan Generation, SOIC). Introduce the ECN offshore wind farm operation and maintenance technology. Establish technological capability of offshore wind farm for operational efficiency, risk management, security mechanism and reduce the maintenance costs.

- **Promoting the industry zone for offshore wind power.**

Promoting Taichung Industrial Zone (II) to become an Offshore Wind Power Development Zone (Localized Turbine Manufacturing). The #106 wharf (Heavy-bearing-capacity part) be completed by 2018 and the other infrastructures are expected by 2019.

- **Promoting the small wind turbine industry.**

The assisted King energy Co., Ltd. integrating meteorological instruments, wind farm assessment and build the wind farm. The project of Mailiao wind farm started selling power electricity on July 18, 2017. King energy Co., Ltd. become the first own brand small wind turbine manufacturer and the development and FITs of small wind farm in Taiwan.

- **Promoting the development of solar photovoltaic industry.**

In response to the "5 + 2 Industrial Innovation Project - Green Energy Technology" high value transformation strategy, assist the industry to exclude the investment barriers. And industrial information analysis for solar photovoltaic module industry, as a follow-up to promote solar photovoltaic module industry basis.