

MARKET OPPORTUNITY

Malaysia



**GREEN
ENERGY
TECHNOLOGIES**

OVERVIEW

- Malaysia aims to grow the industry with a target contribution of €13 billion to the country's GDP by 2030.
- Pursuit of green growth for sustainability and resilience a key strategy outlined in the 11th Malaysia national development plan.
- Malaysia aims to be a Green Technology hub by 2030 and a global 'Electric Mobility Marketplace', attracting OEM expansion for electric vehicle component manufacturing.
- The government has set that by 2020, 20% of government procurement should be green.

Business Opportunities for EU companies

1.	Offering technologies, partnership collaboration and research co-operation with local companies to support the electric vehicle ecosystem in electric vehicle component and charging station manufacturing, design, assembly, packaging and provisions of total solutions
2.	Partnerships with local companies to develop local talent and skills in servicing electric vehicles and installation and maintenance of electric vehicle charging stations
3.	Provision of financing – private equity, venture funds and capital market instruments to reduce financing barrier faced by small and medium enterprises
4.	Offer technologies, partnership collaboration and research co-operation in industrial waste recycling such as bio-effluent, bio-solids and biogas for power generation as well as wastewater treatment systems
5.	Partnerships with local companies through transfer of technology in fuel switching (industries to utilise biomass waste) and converting biomass to biofuels and biochemicals
6.	Develop utility scale solar power plants

Sector Characteristics

- The key sectors in green technology are energy, transport, building, waste and water.
- There is focus on technologies such as green public transport (electric buses), electric vehicles, solar rooftops, green ICT, green building and waste to energy solutions.
- Initiatives to spur renewable energy power include feed-in-tariff, Net Energy Metering mechanism for rooftop solar PV and utility scale solar power.
- The target for palm oil biomass waste is 1,340MW install capacity by 2030, the highest among other types of renewable energy. This is followed by solar PV as building integrated (BIPV) application with a target of 850 MW by 2030.
- By 2020, targets for electric mobility includes 100,000 electric cars, 100,000 electric motorcycles, 2,000 electric buses and 125,000 charging stations.



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Investment
€575 million in
2014

Contributed
€1.8 billion to
Malaysia's GDP in
2013

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- The outlook for green technologies has remained strong, as the government has taken considerable steps to spur the growth of the sector in Malaysia.
- The feed-in-tariff mechanism in Malaysia has been successful in making renewable energy competitive with conventional energy sources.
- Malaysia ranked 18th in the World Global Competitiveness Report 2015-2016.

Key Players

	GO Automobile Sdn Bhd received the first electric vehicle manufacturing license in Malaysia
	Philip Lumileds Lighting Company Sdn Bhd expanded its operations in Malaysia through new R&D activities in LEDs and OLEDs
	Cypark Resources Bhd developed a solar park with landfill gas recovery in 2014
	First Solar is one of the largest solar cells and module manufacturer in Malaysia
	Veolia Water is one of the main players in Malaysia providing water and waste water treatment technologies
	TSH Bioenergy Sdn Bhd operates one of the biggest biomass co-generation power plant (14MW) using empty fruit bunches, palm oil fibre and palm kernel shell as fuel
	Sarawak Energy Berhad is Sarawak's state-owned entity tasked with harnessing Sarawak's abundant energy resources – hydro, biomass, solar and tidal

Key Sub-sectors and Technologies

1.	Electric vehicle components
2.	Solar PV modules and balance of system
3.	LED and OLED
4.	Biomass fuel/power using indigenous feedstock
5.	Methane capture and biogas power plants