

Potensi Sistem Tenaga Surya Dalam Penjanaan Tenaga Elektrik Dari Perspektif Islam di Malaysia

Potential of Solar Energy System in Electricity Generation from Islamic Perspective

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Abstrak

Permintaan tenaga di Malaysia yang semakin pesat akibat pembangunan di dalam sektor perindustrian dan perbandaran telah menyebabkan sektor tenaga tidak lagi boleh sepenuhnya bergantung kepada sumber bahan api fosil. Ini berikutan ketersediaan sumber bahan api fosil yang terhad telah mengakibatkan kadar peningkatan harga terhadap sumber ini semakin tinggi dari masa ke semasa. Hari ini, sektor tenaga sudah mula mengalih pandangan ke arah sumber tenaga yang boleh diperbaharui bagi menampung peningkatan terhadap permintaan tenaga. Sumber tenaga suria adalah di antara sumber yang menunjukkan masa depan yang cerah sebagai sumber tenaga alternatif di dalam penghasilan tenaga elektrik. Malaysia adalah sebuah negara yang dianugerahkan oleh Allah (s.w.t) dengan jumlah cahaya matahari yang tinggi di sepanjang tahun. Ini menunjukkan potensi untuk memanfaatkan teknologi tenaga suria adalah tidak terhad. Tambahan pula, sumber ini tidak dikuasai oleh mana-mana kuasa politik atau syarikat antarabangsa. Penulisan ini adalah bertujuan untuk menilai potensi bagi memanfaatkan teknologi tenaga suria dalam penjanaan tenaga elektrik terhadap persekitaran dari perspektif Islam. Penulisan ini turut membincangkan rancangan tindakan dari kerajaan Malaysia terhadap tenaga yang boleh diperbaharui ini dalam masa 10 tahun kebelakangan ini.

Katakunci: Tenaga Suria; Tenaga Diperbaharui;

Permintaan Tenaga; Tenaga Elektrik; Perspektif Islam

Abstract

Energy demand in Malaysia is increasing rapidly due to the development in industrial sector and urbanization. Due to this, the energy sector could no longer depend on the fossil fuel resource. The availability of fossil fuel resource is limited and it has resulted in the price rate to be increasing from time to time. Today, the energy sector has started to shift their view into renewable energy in order to accommodate the increase in energy demand. Solar energy source is considered as one of renewable energy elements with a bright future as an alternative energy source in electricity generation. Malaysia is a country that is endowed by Allah (s.w.t) with high amount of sunlight all along the year. This is to show that the potential to gain solar energy technology is unlimited. Furthermore, this source is not controlled by any political power or international company. This paper aimed to assess the potential in utilization of solar energy technology in electricity generation to the environment in Islamic perspective. This paper also discusses the

action plan from the Malaysian government for the renewable energy within these ten years.

Keywords: Solar Energy; Renewable Energy; Energy Demand; Electricity; Islamic Perspective

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