

A review on existing and future energy sources for electrical power generation in Malaysia (Review)

Abstract

As the electricity demand is affected by population growth, Malaysia towards an industrialized nation is considering the options for future energy sources for its power generation. Besides the conventional four-fuel mix, the five-fuel mix strategy under several national policies are introduced to diversify and expanding the resources to incorporate renewable energy and nuclear. In view of Malaysia will become a net energy importer by 2020, the increase in alternative energy shares at least will provide stable energy security, more economical and greener environment. In this paper, present and future energy sources are discussed to emphasis on the constraints and barriers facing Malaysia towards energy security and sustainability. Several preferences on future energy sources are under serious consideration where renewable energy (RE) is becoming one of the popular choices as Malaysia recognizes the potential of RE as sustainable and greener option.