

## Biomass policy for sustainable energy supply in Malaysia – A policy analysis on potential use of renewable energy

**Azhan HASAN**, Universiti Teknologi PETRONAS, Malaysia

### Abstract (300 word limit)

The Malaysian government has made a strong commitment to utilizing the huge amount of biomass available for the generation of energy and other high-value products. Due to that reason, we have witnessed a number of favorable policies and actions undertaken by the Malaysia government to promote biomass industry in Malaysia in the last decade. Together, these are known as the environment energy-food-environment-water (EFEW) Nexus and all of the benefits associated with biomass to meet our requirements for energy and other products along with potential damage of Nexus as a whole.

This paper will examine a various policy that has been introduced by the Malaysian government in order to promote the biomass industry and its potential in Malaysia. The policies such as National Biotechnology Policy, National Green Technology Policy, National Renewable Energy Policy, and Action Plan, Biomass Industry Strategic Action Plan and National Biomass Strategy 2020 will be analyzed by using the SWOT Analysis and AFI Framework in order to understand the relationship and the contribution of all policies. The analysis will assess the objective - to identify challenges and opportunities in establishing biomass value chains in Malaysia; the significance - to support Malaysia's aspiration to capitalize on its rich biomass resources to satisfy a significant part of its demands for energy, chemicals and other materials needed for improving the quality of life of its population, in a sustainable manner; as well as the expected finding - to highlight the enablers and disablers in establishing biomass value chains in Malaysia which can give insights to policy makers in capitalizing the rich biomass resource potential.

This paper also will suggest the priority that every policy should be addressed in the attempt to promote the sustainability of Malaysia's biomass industry as well as to strengthen the competitive advantage of Malaysia position in the global biomass industry.

### Image (if any)

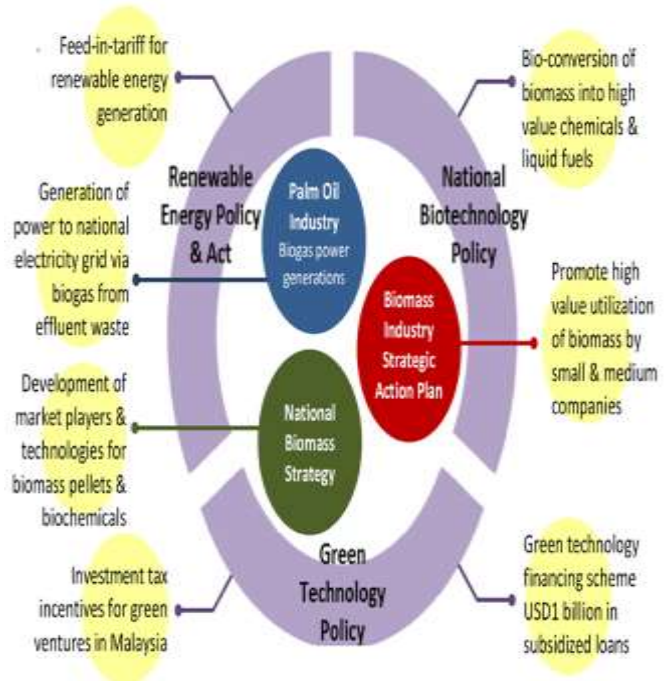


Figure 1 Overview of policies and actions related to biomass industry in Malaysia (Kok Mun 2015)

**Biography (150 words limit)**

Azhan Hasan is a lecturer with more than 17 years of teaching experience in the field of Economy and Business Management. I am perceptive man with talent, dedication, spirit of teamwork, flexibility, passionate, resourceful and abilities. I am committed to capitalizing on the opportunity given. I seek truth in each and every area of my life, whether in learning, discussing philosophy, or relating to my fellow colleagues and students. I am also well-organized and always offer my opinions and ideas on the research project. I was selected as a team member of a collaboration project between UTP and UNITEN on renewable energy as well as been appointed as a task force for PETRONAS Knowledge Management-Institutional Capabilities (KM-IC) and EU Fellow-Sustainability in the European Union-Marie Curie 7th Framework Research program. I am currently completing my PhD dissertation on Eco-Innovation policy in promoting sustainable electronics industry in Japan at Freie Universitaet Berlin, Germany.