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THE TENAGA NASIONAL BERHAD
ELECTRICITY TECHNOLOGY ROADMAP

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Abstract

The Tenaga Nasional Berhad or TNB Electricity Technology Roadmap has a short-term to long-term vision for the Electricity Supply Industry in Malaysia. The main thrust is on transforming the electricity supply industry in Malaysia that focus on higher reliability and efficiency, resilient and more intelligent power delivery system, value-added electricity products and services as well as enhanced environmental management and sustainable development. The transformation period has been spread over twenty-five years with technology options for reliability and efficiency given the highest priority for near-term implementation. This is followed in the medium-term by technologies that would create a more robust power delivery system. For long-term strategy, the technology options include environment-friendly energy conversion technologies to manage sustainable development aspiration. In essence, the electricity technology roadmap is an extended vision of the electricity supply industry. It provides the desired future for the industry and puts into perspective the various scenarios and challenges that have impact on achieving that future. An electricity technology roadmap would be essential in identifying routes for potential areas of research and application of new technologies that have existed.

This paper answers the question why an electricity technology roadmap is essential and becoming more widely accepted in strategic planning. It also discussed the process flow and the techniques involved in developing a technology roadmap.