



DR. WAN MARIAM BINTI WAN MUDA

My research interest is on renewable energy, specifically in solar and wind energy. So far, I only focus on the simulation and modelling of the renewable energy using HOMER and MATLAB software. HOMER is used to study the economic analysis of renewable energy system, while MATLAB is used to study the energy analysis of the system. In addition, simulation can also help us to predict the feasibility of developing a new system at certain condition, estimate the life-cycle cost of the system, find the most optimal system by comparing different configurations and find the optimal size of each component to reduce the capital cost. The systems those have been simulated so far are stand-alone renewable energy system and hybrid grid-renewable energy system for household application and electric boat charging station. My work will contribute enormously in making decision on developing a new renewable energy system.



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Expertise Area

Main Field : Electrical and Electronic Engineering
Sub Field : Energy Technology
Specialization : Simulation and Modelling, Renewable Energy

Professional Membership

- Board of Engineers Malaysia, September 2005 – Present

Networking & Collaboration

- University of Western Australia, Australia

Publication Reference

- Google Scholar Citations - Wan Mariam Wan Muda
<https://www.researchgate.net/WanMariamWanMuda>

