

“Renewable Energy – and the case for Zero Carbon”

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Synopsis

In a Low Carbon World, we will have to deploy on the dual strategy of energy efficiency and renewable energy. In this presentation, the focus will be on renewable energy and its stronger and stronger case as opposed to fossil fuels. Interestingly, renewable energy costs are starting to achieve grid parity. Moreover, once the true cost of fossil fuels is factored in, namely the external costs like (carbon) pollution, the business case for renewable energy becomes even better.

For Malaysia, biomass and solar energy are the most applicable conventional renewable energy sources, but once implemented on a big scale, they both take up significant land area. Therefore, apart from re-stating the importance of energy efficiency, this presentation will also examine how renewable energy can be integrated in our built environment without taking up ‘extra space’.

Highlights of this presentation include:

- Referencing the recent IMF study on the true cost of fossil fuels and its astounding conclusions. For Malaysia, for example, if we were to pay the real cost of fossil fuels, the petrol should cost RM4.50 per liter, which is more than double of the current cost.
- Calculation example of how much solar photovoltaic panels are needed to cover the entire Malaysian annual electric consumption. The result may surprise you in a positive way.
- Examples of BIPV (building integrated photovoltaics) and other innovative to integrate renewable energy in the built environment