

GOLD MEDALLIST AT 21ST INVENTION INNOVATION EXHIBITION (ITEX 2010)

DEVELOPMENT OF CLEAN, RENEWABLE FUEL FROM WASTEWATER, TOWARDS A SUSTAINABLE ENERGY SOURCE, USING GREEN TECHNOLOGY APPROACH: SEWAGE AS AN ENVIRONMENT FRIENDLY FUEL

(PATENT PENDING: PI 2010 000766)

Researchers at Universiti Malaysia Pahang (UMP) are currently developing an innovative renewable fuel technology, which has the ability to produce a sustainable energy supply from wet waste, such as sewage, leach ate and paper mill waste.

This wet waste, particularly sewage from residential areas and treatment plants, contains large amount of water, which can be transformed into clean renewable fuel. This renewable fuel can then be used as a reliable energy source for direct applications, such as cooking, heating or welding works.

UMP's innovative renewable fuel technology, known as hydrogen electrochemical cell (HEC²), is powered by solar energy and capable of extracting hydrogen gas, from any aqueous base, four times more efficient than the conventional hydrogen electrolyzer.

