

Hydrogen Resource for A Clean Tomorrow

Thursday, 9 June 2022, Kuching – There is “Only One Earth” – that is the theme for this year’s World Environment Day. As global temperature rises and natural disasters occur more frequently, investing in the environment has never been more urgent.

In this regard, Sarawak is stepping up via the Sustainable Sarawak Blueprint and undertaking numerous “Green” projects and investments, many of which center around Hydrogen.

The excitement behind Hydrogen lies in its energy potential. The element is an energy carrier that can deliver or store a tremendous amount of energy.

According to research funded by the U.S. Department of Energy, Hydrogen fuel cells have demonstrated fuel economies approximately 1.5 times greater than diesel and two times higher than natural gas.

What makes Hydrogen stand out among other alternatives like fossil fuel, is that it is clean and sustainable. In a fuel cell, Hydrogen produces only water, electricity, and heat. Additionally, Hydrogen is the most abundant element in the universe – promising a resource that may last generations.

While electricity is currently available as a cheaper alternative fuel, Hydrogen can provide more mileage as it can densely pack its energy storage in a fuel cell.

In addition to this, Hydrogen fuel cells can far out-perform electric vehicles (EV) when it comes to the duration to refuel a tank. EVs are notorious for hours-long charging periods.

Currently, the biggest hurdle for Hydrogen in Transportation is the limited number of refueling facilities and high production costs. However, as Hydrogen is getting more attention and investments - this may soon change.

Recent highlights in Sarawak’s Hydrogen journey include the officiating of Petros multi-fuel station at Darul Hana. As groundworks for KUTS will commence soon, Sarawak’s future looks clean and bright!

