

Team shatters theoretical limit on bio-hydrogen production

Method increases yield of clean, renewable energy source

GAINESVILLE, FL, USA, August 30, 2018 /EINPresswire.com/ -- Energy is the growing need of the world and it is expected to increase in the next twenty years. As per the International Energy Outlook 2013 the world's energy consumption will grow by 56% between 2010 and 2040, from 524 quadrillion British thermal units (Btu) to 820 quadrillion Btu. The Fossil fuels which are a non renewable energy source have been providing the greater amounts of energy and it will continue to supply 80% of world's energy use through 2040. The energy generation from fossil fuels creates environmental problems due to the release of toxic gases including CO₂. The continued use of fossil fuels may make us energy rich but we will become poor in health by 2040. Therefore, the use of alternatives and renewable energy sources need to be appreciated so they could be used to meet the energy requirement of the world while keeping the environment habitable for the human species. Among

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Hydrogen(H₂)is the cleanest future fuel
"H₂ generation from renewable sources is the best way to keep environment healthy"
"The engineered T.maritima has a potential to meet the growing energy needs"
Raghuveer Singh

various forms of energies hydrogen is the highest energy rich and the cleanest energy source. The energy from hydrogen can be released either by burning it which generates water or by directly converting it into electricity via a fuel cell.

Here is the link to the invention and press release by UNL:

<https://news.unl.edu/newsrooms/today/article/team-shatters-theoretical-limit-on-bio-hydrogen-production/>

Here is a link to the detailed version of the research:

<https://aem.asm.org/content/early/2018/06/25/AEM.00998-18>

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