

Aemetis commercialises its carbon-zero technology

Aemetis Inc, a US industrial biotechnology company, will launch its carbon zero production plants technology following a successful patent award. The company will use agricultural waste by utilising renewable energy and below-zero carbon feedstocks (waste wood and agriculture wastes) to produce biofuels. The details of its US Patent No. 10907184 will be published on 2nd February 2021.

Aemetis plans its first Carbon Zero production plant in California to extract sugars from waste woods and then convert it into renewable fuel. This will reduce the feedstock cost for producing biofuel by 90%. The project is funded by USDA, the US Forest Service, the California Energy Commission, CDFR and PG&E.

Foton Mobility and TrueGreen join for hydrogen buses production in Australia

Foton Bus Australia and TrueGreen Mobility partnered to manufacture hydrogen-powered buses in Australia in Q2 next year. The plan is to import a few buses that would be made in China and then start production in early 2022 in NSW, Australia. TrueGreen acquired a 51-hectare site for the manufacturing hub. Foton is said to have sold 40,000 hydrogen and electric buses globally. The plan is to deliver 200 hydrogen buses annually.

Indian Oil Corporation Ltd (IOCL) picks Dastur as a lead developer for its CCUS

Dastur International Inc, a US-based engineering consultancy services, announced that it would lead a consortium to develop India's largest industrial carbon capture and utilisation (CCUS) facility for Indian Oil Corporation Ltd (IOCL). The 13.7 million tonnes/year capacity CCUS facility will be developed at IOCL' Koyali refinery. Dastur will design and evaluate the project's techno-economic feasibility with Air Liquide and Bureau of Economic Geology (BEG) at the University of Texas. The project is funded by the US Trade and Development Agency (USTDA).

IOCL is the largest refining company in India operating 11 out of the total 23 refineries. The Koyali refinery has the potential to capture over 5,000 tonnes/day (1.5 million tonnes/year) of CO₂ for large scale Enhanced oil recovery (EOR) operations. The captured CO₂ is planned to be used EOR at the Oil and Natural Gas Commission's (ONGC) oilfield at Gujarat, India.

Koben-Instant hydrogen meters

Koben Systems Inc and Instant ON LLC will partner to develop solutions that can align the smart grid requirements with the growing consumers' needs. This will bring more visibility and control to the energy and gas market and help the monitoring and controlling of hydrogen. One of the technology's key features is that it integrates solar microgrids

with natural gas fuel cells or hydrogen fuel cells. Koben Systems is a distributor and integrator of energy and EV charging products, and Instant ON provides solar solutions.

MAN Energy acquires H-TEC SYSTEMS

Germany's MAN Energy Solutions has acquired 99% of H-TEC SYSTEMS shares, a German manufacturer of PEM electrolyzers. The acquisition is subject to approval from the regulatory authorities.

The acquisition will enable MAN Energy Solution to cover all the hydrogen economy processing steps under MAN Energy Solution's umbrella. The company contemplates promoting PEM electrolyzers in the multi-megawatt range, which will be the start of electrolyzers applications on an industrial scale.

NFI Group sets long terms targets

NFI Group Inc, a Canadian bus and coach manufacturer, implied around 50% uptick while setting 2021 financial guidance with an Adjusted EBITDA range of US\$ 220 million to US\$ 240 million. It provided a more extended outlook going out to 2025 for setting Adjusted EBITDA target between US\$ 400 million to US\$ 450 million.

Outlining its strategic plan during [Investor Day 2021](#), the company plans to focus more on zero-emission vehicles. It has set a target to take 35%-40% revenue from the zero-emission, electric buses and coaches (ZEB) by 2025.