Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

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and tsunami and Fukushima Daiichi nuclear disaster in 2011. The H2Rex system will be utilised as part of this plan. This is the third H2Rex unit in Fukushima Prefecture, following installations at the Azuma Sports Park and J-Village National Training Center [December 2019, p6 and July 2020, p8].

The support will be complemented by hands-on training, involving government officials and unemployed college graduates with electrical engineering qualifications.

‘Bambili Energy is working on an initiative to take some of these fuels cells to rural areas in the Eastern Cape and KwaZulu-Natal. This is the start, but the idea is to roll the project out to various parts of South Africa,’ Dr Phil Mjwara, Director-General of DSI, said at the inauguration.

SA Department of Science and Innovation: www.dst.gov.za
Bambili Group: www.bambiligroup.com
HyPlat: www.hyplat.com
Sasol: www.sasol.com

E&KOA is developing a 1 kW SOFC stack for the mass market, while P&P Energytech has previously developed PEM, molten carbonate and SOFC testing equipment, and supplied fuel cell systems for leading automotive companies. Under their agreement, E&Koa will supply solid oxide fuel cells, which E&Koa will utilise in SOFC stacks, and P&P Energytech will integrate into a 10 kW SOFC system for launch into the commercial stationary power market within three years. P&P Energytech has been working with Elcogen for the last two years to validate the latter’s SOFC technology.

The combined heat and power (CHP) generation system developed by the partnership will have an electric power output of 10 kW, operating on hydrocarbon fuel or hydrogen gas. The target market is commercial buildings and the distributed power market in South Korea, but the partners intend to explore expansion of the collaboration to other locations.

Elcogen recently signed a Letter of Intent for a commercialisation agreement with Magnex, a Japanese SOFC stack and system developer, to cooperate on moving towards mass-market commercialisation of SOFC products [FCB, May 2020, p12]. The company has also supplied a stack for the world’s first SOFC powered drone capable of long flight times, developed and demonstrated by a Japanese consortium [see page 6].

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e-100

SA deploys fuel cells to power Covid-19 field hospital in Pretoria

The Department of Science and Innovation in South Africa has unveiled seven fuel cell systems – five operating on reformed methanol, and two on hydrogen – as the primary power source for 1 Military Hospital in Pretoria, where the government has set up a field hospital to prepare for a potential increase in Covid-19 patients.

The field hospital has facilities for coronavirus testing and screening, as well as life-saving equipment such as ventilators in the intensive care unit (ICU). The project – announced in the spring [FCB, May 2020, p1] – is a partnership between DSI, the Department of Public Works and Infrastructure, Department of Defence, and private companies including Bambili Energy, which is commercialising intellectual property developed through DSI’s Hydrogen South Africa (HySA) programme [see the HySA features in June, October and November 2013].

Other partners in the initiative include Cape Town-based fuel cell components manufacturer HyPlat [May 2016, p10], Air Products, Horizon Fuel Cell Technologies in Singapore, US-based Element 1, and PowerCell Sweden. Sasol is donating 10 000 litres of methanol and 600 kg of hydrogen every month until April 2021 to help power the field hospital, and working with Air Products and Protea Chemicals to assist with logistics for supplying the fuels.

The support will be complemented by hands-on training, involving government officials and unemployed college graduates with electrical engineering qualifications.

‘Bambili Energy is working on an initiative to take some of these fuels cells to rural areas in the Eastern Cape and KwaZulu-Natal. This is the start, but the idea is to roll the project out to various parts of South Africa,’ Dr Phil Mjwara, Director-General of DSI, said at the inauguration.

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Elcogen partners with Korean firms to launch commercial SOFC unit

Estonia-based Elcogen has signed a Letter of Intent with solid oxide fuel cell stack manufacturer E&KOA and SOFC system integrator P&P Energytech in South Korea, to collaborate towards the commercialisation of SOFC systems for the commercial building market in South Korea and beyond.

E&KOA is developing a 1 kW SOFC stack for the mass market, while P&P Energytech has previously developed PEM, molten carbonate and SOFC testing equipment, and supplied fuel cell systems for leading automotive companies. Under their agreement, E&Koa will supply solid oxide fuel cells, which E&Koa will utilise in SOFC stacks, and P&P Energytech will integrate into a 10 kW SOFC system for launch into the commercial stationary power market within three years. P&P Energytech has been working with Elcogen for the last two years to validate the latter’s SOFC technology.

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LARGE STATIONARY

Doosan FC partners to develop fuel cell based low-pressure power gen

South Korean-based Doosan Fuel Cell has signed a Memorandum of Understanding with LS Electric, Hanwha Power Systems and Hanwha Asset Management to develop a renewable energy generation business model using its phosphoric acid fuel cell systems with a lower pressure natural gas supply.

The partnership has been formulated in the framework of the Korean government’s Green New Deal project, promoting greater use of renewable energy and boosting energy efficiency. The MOU will foster technical collaboration in tapping into unused energy, boost efficiency by using multiple energy sources, and support...