



Energy storage for load shifting papua new guinea

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Twenty20 Energy will roll out its proprietary power island floating storage regasification and power solution at 12 locations across Papua New Guinea (PNG) on behalf of PAWA PNG. The solution will serve as a model for future nearshore power generation plants in coastal regions worldwide, reckons the Singapore-based firm.

"The adoption of the technology in Papua New Guinea demonstrates that the Power Island FSRP should be an attractive solution to similar coastal and island communities across the Asia-Pacific region and around the world," the company said in a statement.

"The PAWA PNG project, a joint venture with Dirio Gas & Power and the PNG government, will provide 283MW of less expensive and more reliable electricity supply with significantly lower emissions, as it primarily replaces ageing, inefficient diesel-based generation with modern, high efficiency liquid natural gas (LNG) and heat recovery-based generation. The project will also provide additional generation capacity where it is needed most to support economic and social development objectives," added Twenty20 Energy.

FSRP power barges, which include power generators and regasification equipment, where power generation from gas turbines and waste energy takes place. Fuel barges, which includes LNG storage tanks that supply fuel to the gas turbines with 30 days of LNG supply and form the remote fuel bunkering solution. Floating piers, which moor the barges in each of the 12 locations with minimal site impact.

The power island project will deliver a solution designed and tailored specifically to PNG's energy requirements. The project represents what Twenty20 Energy and PNG officials called the most efficient and cost-effective solution to harness the country's domestic LNG supply for powering the country and supporting the goal of 70% electrification by 2030. It is estimated that only 13% of Papua New Guinea's population have access to power, predominantly in the major cities, with electricity in remote locations typically provided by high-polluting, costly, stand-alone diesel generators.

The Twenty20 Energy design calls for floating piers to be built and transported to each of the 12 sites. The power barges and fuel barges will be built and transported to the floating piers, where they will be moored. When in need of additional fuel, the fuel barges will travel to one of the three LNG bulk storage hubs, where they will be filled up and transported back to the floating pier.

"Our Power Island FSRP design leverages the abundance of domestically produced LNG in Papua New Guinea, delivering a cost-effective, environmentally friendly solution to power generation for coastal communities," said Geoff Lawrence, CEO of Twenty20 Energy.

The power island approach meets the needs of developing countries, which face increased demands for energy



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to support urbanisation and industrialisation. The solution also balances the need for affordable, scalable power generation with a desire for reduced environmental impact and greater sustainability. Twenty20 Energy anticipates that in many instances, its Power Island solution, which uses LNG, will replace high-polluting fossil fuels such as coal and diesel, while delivering reliable, cost-effective power where it is needed most.

We have a large selection of industrial-scale generators (diesel, gas and hybrid) that range from 20kVA all the way up to 1500kVA so you can be assured of stable, portable power no matter what your needs are. Over the years, a wide range of specialised mobile diesel generator rentals, as well as natural gas options have been developed by Aggreko to meet the specific needs of our customers' ever-expanding industries, from inner-city offices all the way to outback mining operations.

Aggreko can offer generator rental and energy storage solutions that deliver power to all sizes and shapes, from temporary, single-site energy, through to baseload-scale, multi-megawatt power for regional grids. We focus on delivering precisely what each client needs, when they need it.

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