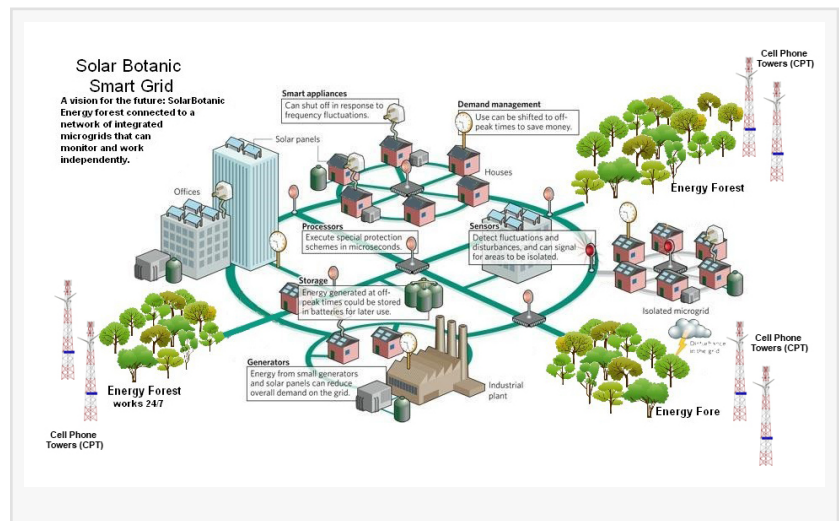


Fuel Cells And Renewable Energy Now Proving To Be More Economical Than Diesel And Batteries.

New Technology From Brunel University And SolarBotanic Brings Together Renewable Energy And Hydrogen Fuel Cells To Produce Electricity At 6.7 Pence Per kWh

LONDON, ENGLAND, UNITED KINGDOM, May 23, 2017

/EINPresswire.com/ -- Cut-off communities across Europe, Africa and Asia pay more for electricity with greater cost to the environment because their tricky locations force them to rely on diesel generators.



But researchers have now found a way to supply them cheap, clean renewable energy by collecting and storing solar energy from their mobile phone base stations.

It could bring cheaper, cleaner fuel to thousands in remote places like rural areas or on Europe's many tiny islands and at the same time make them more self-sufficient.

“

Africa has energy potential, yes, but we need to unlock that potential. And we must do so quickly, said Dr Akinwumi Adesina President of the African Development Band”

Dr Akinwumi Adesina

Developed by Brunel University London <http://www.brunel.ac.uk/> and green energy tech firm, [SolarBotanic, www.solarbotanic.com](http://www.solarbotanic.com) Regenerative Hydrogen Fuel Cells (RHFCs) offer an environmentally-friendly way to store power from solar panels and wind turbines.

“Faced with unreliable power grids, or without a grid at all, telecom infrastructure companies want alternatives to high cost, high maintenance fossil fuels,” said Brunel’s Zahir

Dehouche, a sustainable energy specialist. “RHFC systems are the answer.”

The fuel cells convert excess electricity from the solar panels and wind turbines into hydrogen that is stored on-site. This way, they cut out fuel used to transport the stored energy to these remote areas. The hydrogen fuel is stored in a tank and delivered to the fuel cells to generate electricity when needed, for instance when there’s not enough wind or solar power.

The system generates enough energy from solar panels and a wind turbine half way up the phone mast, to both power the mast and store to supply the community as a microgrid. The cells can supply

power for 10 days and don't need back up from a battery or diesel generators. They last longer than 15 years and are more secure and reliable than diesel systems backed up by battery.

"This radical innovation provides the opportunity for a never-before-seen degree of energy autonomy, all the while significantly reducing cost, both financially and in terms of environmental impact", said SolarBotanic's Harry Corrigan.

Ends

Notes to editors

The research will be presented at the 3rd International Conference of Hydrogen Energy at the University of Surrey (Guildford, England) from 11-13 September 2017.

For more on SolarBotanic, visit www.solarbotanic.com

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