

## Leading companies join forces to integrate wind power into remote power grids

- Eurus Energy, Siemens and Danvest sign Joint Development Agreement for hybrid wind farms
- Potential CO<sub>2</sub> savings of up to 60 per cent
- Reduce reliance on expensive diesel
- Cost savings to pay for the investment
- Mining sites with potential application for remote communities

Mining sites and remote communities could generate CO<sub>2</sub> emission savings of up to 60 per cent under a plan to increase the use of wind power at remote facilities.

Siemens has entered into a Joint Development Agreement (JDA) with Eurus Energy and Danvest to increase the use of wind power to displace the use of fossil fuels.

Under the terms of the JDA, Eurus Energy, Siemens and Danvest will work together to identify, assess, develop, build, own and operate MW-class hybrid wind farms at remote mines and communities.

These hybrid wind farms will help reduce reliance on expensive and CO<sub>2</sub>-intensive diesel-fuelled power.

**SIEMENS**

Siemens AG  
Wittelsbacherplatz 2  
80333 Munich  
Germany



**Danvest Energy A/S**  
Tuborg Boulevard 12  
2900 Hellerup  
Denmark



**Eurus Energy Holdings Corporation**  
Hulic Kamiyacho Building 7F  
3-13 Toranomon 4-Chome, Minato-ku  
105-0001 Tokyo  
Japan

“Mining companies currently spend hundreds of millions of dollars annually on purchasing and transporting diesel to remote sites,” said Eurus Energy’s Director Hideyuki Inazumi. “We can save these companies money and reduce harmful emissions.

“This collaboration will see Siemens’ leading wind turbine technology working in tandem with Danvest’s unique Danvest Power Box technology. It will mean that, during fluctuations in wind supply, the system will provide a smooth and continuous supply of reliable power,” said Inazumi.

The Power Box is a container housing a conventional diesel generator fitted with the patented Danvest system, which is connected with Siemens wind turbines ranging in size from 2.3 to 3.2 megawatts

Danvest CEO Thomas Vestesen said the technology had the potential to reduce diesel consumption and corresponding CO<sub>2</sub> emissions by up to 60 per cent.

“Additionally, the solution will significantly enhance road safety by reducing the need for the haulage of liquid fuel by road trains.” he said.

Eurus Energy will undertake a Build Own Operate (BOO) model for the projects. The mine or community will be able to simply buy clean, renewable power from the project, at lower cost than the diesel power, and all without having to arrange funding for the project or undertake unfamiliar tasks such as wind resource assessment and project implementation.

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“We are really excited about this cooperation to help simultaneously reduce energy costs and environmental impact. This project demonstrates true sustainability by eventually paying for itself,” said David Pryke, Vice President of Siemens Australia Wind Power and Renewables.

**Eurus Energy** is a Japan-based international renewable energy company and its gross capacity of wind and solar PV assets exceeds 2,300MW globally. Eurus Energy made an entry into the Australian market through the acquisition of Hallett 5 Wind farm from AGL in 2012. Eurus and Siemens Wind Power have a long working relationship in wind business. <http://www.eurus-energy.com/en/index.html>

**Siemens AG** (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world’s largest producers of energy-efficient, resource-saving technologies, Siemens is No. 1 in offshore wind turbine construction, a leading supplier of combined cycle turbines for power generation, a major provider of power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2014, which ended on September 30, 2014, Siemens generated revenue from continuing operations of €71.9 billion and net income of €5.5 billion. At the end of September 2014, the company had around 357,000 employees worldwide. Further information is available at [www.siemens.com](http://www.siemens.com).

**Danvest** is a Danish innovative diesel technology company and a world leader in hybrid wind-diesel power. The hybrid technology allows for wind-diesel operation where high wind penetration can result in annual reductions of fuel consumption and carbon dioxide emissions of up to 70 per cent when compared to standard diesel generator plants. Danvest and Siemens Australia have been collaborating on wind-diesel integration for over three years in the Australian market. [www.danvest.com](http://www.danvest.com).

### Contact for journalists:

Siemens Ltd, Media Relations

Keith Ritchie, phone: +61 457 841 189

E-mail: [keith.ritchie@siemens.com](mailto:keith.ritchie@siemens.com)

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