

**Press
Release**



Largest Off-Grid Solar Project Complete (DeGrussa Mine)

juwi successfully completed the off-grid 10.6MW solar + 6MW battery system at the DeGrussa Copper-Gold Mine. The project is a world leading solar-diesel-battery system and one of the largest renewable energy systems installed on a mine. The innovative system will save 12,000 tonnes of CO₂ and 5,000,000 litres of diesel p.a.

Low cost renewable energy is competitive with traditional fossil fuels in many off-grid and mining applications globally. For Sandfire Resources NL, a mid-tier Australian mining company, the juwi Group developed a 10.6MW solar hybrid system to fully integrate with the existing 19MW diesel-fired power station at the DeGrussa Mine. Single axis tracking and a 6MW battery will be used to maximise the use of lower cost solar power to provide the majority of daytime electricity while reducing the mine's total diesel consumption by approximately 20 per cent.

juwi Renewable Energy (juwi) is pleased to advise that the solar PV system at the DeGrussa mine has achieved full generation capacity after successfully attaining key milestones during commissioning. The facility is currently generating approximately 7MW of power, which is in line with expectations given the time of year.

Commissioning of the \$40 million project commenced in mid-March following installation of the last of the 34,080 solar photovoltaic (PV) panels. The solar array covers a total area of over 20 hectares at the site, which is located immediately adjacent to the DeGrussa underground mine and processing plant. The DeGrussa mine is very remote, located 900km north of Perth, Australia and 150km from the nearest town Meekatharra - population of 800 people.

Major commissioning milestones of the new solar power plant were successfully achieved at the end of May, with the plant having now successfully ramped up to its full generating capacity. This confirms that the plant can perform in accordance with contractual specifications and validates the power purchase agreements covering the facility. Testing and commissioning activities are continuing to fully integrate the project with the existing diesel-fired power station and to ensure it can maintain stable operations at 100 per cent generation capacity.

The innovative project is the largest integrated off-grid solar and battery storage facility in Australia and reportedly, in the world. The project's 34,080 solar PV panels are attached to a single-axis tracking system mounted on 4,700 steel posts. This tracking system enables the panels to track the sun during the day, improving the plant's overall production by 20%.

The panels are connected via an extensive network of low-voltage, high-voltage and communication cables to a 6MW lithium-ion battery storage facility and the existing 19MW diesel-fired power station at DeGrussa.

The DeGrussa Solar Power Project is owned by the leading French renewable energy firm Neoen with juwi Renewable Energy responsible for the project development, EPC and O&M. The plant was constructed by national surveying and infrastructure construction company OTOC Limited (ASX: OTC), with project financing provided by the Clean Energy Finance Corporation (CEFC) and recoupable grant funding support from the Australian Renewable Energy Agency (ARENA).

The solar facility has been integrated with the diesel-fired power station – owned and operated by Pacific Energy Ltd (ASX: PEA) subsidiary KPS – continuing to provide base-load power to the DeGrussa mine with sufficient minimum load to ensure it can respond quickly to meet the power requirements of the process plant and underground mine.

“this project demonstrates that juwi continues to be an international leader and technical pioneer in the photovoltaic project development and EPC space” says Stephan Hansen, Chief Operating Officer of the juwi Group.

Juwi Australia’s Managing Director, Mr Andrew Drager said the successful completion of the DeGrussa Solar Project is a significant milestone for both the renewable energy and mining industry. We have managed to overcome the many commercial and technical barriers in order to make this flagship project a success. We hope these learnings will make it easier for other mining companies to follow a similar path, as well as the motivation to do so.

We are extremely proud of this achievement, which has only been possible through the dedication and hard work of the juwi team over the last two and a half years. We would also like to acknowledge the other stakeholders who were instrumental in making this project a success, including Sandfire Resources who have been a pioneer in sustainable mining practices.

‘100% Renewable Energies’ has been the juwi vision since the company installed the first wind farm 20 years ago. We hope this project provides an opportunity for others to contemplate such as a future.

Editor’s note: To access copies of media releases which were also issued today by the other consortium members listed below as well as new high-resolution images of the DeGrussa Solar Power Project including recent drone footage and images (from last week) and a recent animation sequence showing the DeGrussa Solar Power Project, please click on the following Dropbox link:

<https://www.dropbox.com/sh/yb46q33v2myg45c/AAApTT9IMqCjFZTYut0125zia?dl=0>

About juwi

The juwi Group is one of the world's leading renewable energy companies specialising in the Engineering, Procurement and Construction ("EPC") of utility-scale projects. With approximately 1,000 employees worldwide, juwi has been involved in the development, design, construction and operation of more than 1,500 solar PV projects and the installation of more than 800 wind turbines with a cumulated capacity of over 3,500MW. For more information, see www.juwi.com.au.

About Sandfire Resources

Sandfire Resources (ASX Ticker: SFR) is a leading mid-tier Australian mining company which operates the high-grade, low cost DeGrussa Copper-Gold Mine in Western Australia and is developing a global portfolio of high quality resource assets as the foundation for its longer term vision to build a diversified international mining house.

About OTOC

OTOC is a leading provider of infrastructure construction and renewable energy services to government, resources, energy, utilities and remote area clients. Our Australasian footprint allows us to leverage our wealth of experience to deliver the highest quality service across critical support infrastructure projects. OTOC prides itself on delivering complete infrastructure solutions through the ability to partner with clients on all project stages, from design through to construction and ongoing maintenance. OTOC also provides premium surveying, aerial mapping, laser scanning, town planning and urban design services nationally across all sectors. OTOC Limited is listed on the ASX with ticker OTC.

About Neoen

Neoen is an independent power producer, generating electricity from renewable sources (solar, wind or biomass). Neoen develops, finances, builds and operates plants and is active in France, Portugal, Australia, Mexico, Egypt, Mozambique, Jamaica, Zambia, Jordan and El Salvador. With a current operating base of 759 MW, Neoen seeks to achieve installed power of over 1000MW by 2017. Founded in 2008, the company is a subsidiary of Impala SAS (www.impala-sas.com), a diversified investment group with over 6000 employees and a global presence, of Bpifrance (www.bpifrance.fr), the French public investment bank, and of private equity firm Omnes Capital (www.omnescapital.com).

About ARENA

ARENA was established by the Australian Government to make renewable energy technologies more affordable and increase the supply of renewable energy in Australia. ARENA invests in renewable energy projects, supports research and development activities, boosts job creation and industry development, and increases knowledge about renewable energy. ARENA has a portfolio of more than 240 supported projects and is actively seeking new projects to fund in 2016. For more information, visit www.arena.gov.au.

About the CEFC

The Clean Energy Finance Corporation (CEFC) invests commercially to increase the flow of funds into renewable energy, energy efficiency and low emissions technologies. The CEFC has supported projects across the Australian economy, benefitting a diverse range of businesses, large and small. The CEFC's mission is to accelerate Australia's transformation towards a more competitive economy in a carbon constrained world, by acting as a catalyst to increase investment in emissions reduction. The CEFC does this through direct investments which attract private sector finance, as well as through its strategic co-financing

partners. The CEFC was created by the Australian Government and operates under the Clean Energy Finance Corporation Act 2012. More information is available on the CEFC website: www.cleanenergyfinancecorp.com.au

About Pacific Energy

Pacific Energy is an ASX listed (ASX: PEA) power generation project developer and owner. Headquartered in Perth, Western Australia, Pacific Energy is focused on the development, ownership and maintenance of power stations. Its KPS subsidiary is a leading provider of power generation infrastructure to the mining and resources sector in Australia. The business operates on a build, own, operate execution model with 238MW of contracted capacity at 20 mine site locations. Its Pacific Energy Hydro subsidiary owns and operates 6MW of hydro power generation capacity at two locations in Victoria.

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