

Abaco Equips Wind Farm with Reliable, Real-Time FPGA Processing Card for HVDC Control Technology

Long-term supply chain, rugged technology key factors for customer selection

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EINPresswire.com/ -- Abaco Systems announces a design win from a leading international renewable energy equipment provider, utilizing Abaco's commercial-off-the-shelf (COTS) field-programmable gate array (FPGA) processing card technology to ensure the reliable operation of a planned 1.4-gigawatt (GW) wind farm in the North Sea. The total lifetime value of the win to Abaco is expected to be up to \$3 million.



Abaco's product lifecycle management program and long-term support ensures this wind farm will deliver clean, reliable HVDC power for decades to come, further cementing the success of our customer.

Abaco was chosen because of its reliable, rugged processing performance combined with long-term supply chain capabilities. Abaco's FPGA will help the wind farm generate reliable, cost-effective and pollution-free energy, supporting the world's commitment to decarbonize.

Abaco's VP780 high-performance Xilinx® Virtex™-7 VPX card will provide real-time control of large amounts of high voltage direct current (HVDC) power generated by one of the world's largest offshore wind farms. The HVDC power will be transmitted to an onshore station where it will be converted to AC power for mainland utility customers.

"Our product lifecycle management (PLM) program and long-term support ensures the wind farm will deliver clean, reliable HVDC power for decades to come, further cementing the success of our customer," said Abaco Chief Growth Officer John Muller. "Abaco's FPGA technology is well known for delivering high performance to applications where ruggedization, reliability, and long-term supply chain are critical concerns."

Technical Details

Abaco's VP780 is powered by a Xilinx® Virtex™-7 FPGA with advanced digital signal processing capabilities. The design has been optimized for the implementation of complex FPGA algorithms



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*Abaco Chief Growth Officer
John Muller*

with high throughput requirements. It is in the 3U VPX form factor, with a VITA 57-compliant FPGA Mezzanine Card (FMC) site making it possible to easily integrate I/O cards with A/D, D/A, RF capabilities and more. Abaco also supports a full line of FMC devices and 3U and 6U VPX-based FPGA products for industrial and MIL/Aero applications from the Virtex-7 up through the latest UltraScale+ FPGAs and RFSoc devices.

[More Information](#)
[Datasheet](#)

About Abaco Systems

Abaco Systems is a global leader in commercial open architecture computing and rugged embedded electronics. With more than 30 years of experience in aerospace & defense, industrial, energy, medical, communications and other critical sectors, Abaco's innovative solutions align with open standards to accelerate customer success.

Abaco Systems is a subsidiary of AMETEK, Inc., a leading global manufacturer of electronic instruments and electromechanical devices with 2020 sales of more than \$4.5 billion.

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