

Solar Energy Application Success Story

CASE STUDY

EPEC/QT partners with nVent to enhance the performance, reliability, and safety of their switchboards, AC combiners and recombiners.





"WITH A FOCUS ON INNOVATION AND QUALITY, NVENT CONTINUES TO SET NEW BENCHMARKS IN THE INDUSTRY,"

Mark Sauls, Vice President, EPEC.

"The cutting-edge products enable our customers to optimize their operations, enhance safety and achieve greater reliability in their infrastructure. From reliable surge protective devices to customized enclosures to reliable power connections nVent delivers products that meet stringent industry standards, providing peace of mind and maximum efficiency."

Situation: nVent Collaboration Empowers Switchboard and Combiner Solutions Provider

EPEC Solutions (EPEC) and QT Corporation (QT), known as EPEC/QT, offer tailored panel solutions, including their AC combiner switchboards, combiners and recombiners explicitly designed for solar power applications. AC combiners play a vital role in solar energy systems by consolidating the power generated by multiple chains of solar panels into a single output, which can then be directed to a transformer and supplied to local power grids.

With the assistance of nVent, these companies have successfully optimized space utilization, improved efficiency and achieved cost reduction while maintaining utmost reliability. nVent provides:

- nVent HOFFMAN Enclosures
- nVent ERIFLEX Flexibar
- nVent ERIFLEX IBSB Braids
- nVent ERIFLEX Insulators
- nVent ERICO Surge Protective Devices.



"WITHIN THE NVENT UMBRELLA, WE HAVE UNIQUE PRODUCT OFFERINGS THAT COMBINE EXTREMELY WELL TO PROVIDE SCALABILITY, IMPROVE SYSTEM LONGEVITY, AND INCREASE SYSTEM EFFICIENCY,"

John Turner, Vertical Market Lead, Commercial & Renewable Grid.

"We are positioned to serve the solar power industry exceptionally well, and our collaboration with EPEC/QT is an excellent testament to the value we can bring to helping develop solutions."

Solution: Teamwork and Unparalleled Support Drives Success

Design Efficiencies and Customization



The flexibility and customization offered by nVent allow EPEC/QT to create tailor-made enclosures that meet each solar project's precise, unique requirements. nVent HOFFMAN's customized enclosures have been vital. nVent's solutions offer cost effective features including easy installation for labor savings and space-saving benefits within the enclosure.

Technical Support and Supply Chain Excellence



EPEC/QT have benefited from nVent's exceptional sales support, technical assistance and expertise. They have received invaluable technical support from nVent for UL testing and troubleshooting specific issues, ensuring the highest quality and performance standards. Additionally, nVent's supply chain support has been instrumental in operations, with reliable product stocking, on-time delivery, transparent availability, and responsive customer service. These aspects have been key in maintaining smooth operations and seamless project execution.

Enhanced and Simplified Connections



The innovative nVent ERIFLEX Flexibar and ISBS Braids enable direct connections between the switchboard and the vehicle to the transformer, eliminating the need for additional bus stacks with insulators. The insulated nature simplifies bus connections, reducing the requirement for field construction and insulators. This streamlined approach significantly improves efficiency, streamlines installation processes, and generates cost savings for EPEC/QT.



Results: Looking Towards an Electrified and Sustainable Future

"At EPEC, we believe that the foundation of our success lies in our commitment to excellence. By partnering with reputable manufacturers like QT, we have been able to offer our customers a complete package of top-quality switchboard enclosures, ensuring the highest standards of manufacturing and procurement," said Mark.

Mark attributes their success to the team's focus on quality, customer service and innovation. By partnering with nVent, they have expanded their product range to include enclosures, low-voltage conductors, surge protectors, and insulators, further enhancing their offerings in the solar energy sector.

Integrating nVent solutions in EPEC/QT AC switchboards has resulted in significant efficiency gains and cost savings.

By leveraging nVent products, these manufacturers have achieved up to a 40% reduction in footprint, maximizing the use of space while increasing renewable energy production. In addition, the overall decrease in costs, simplified maintenance, and ease of installation contribute to long-term savings and operational efficiency.

Overall, the collaboration with nVent and the utilization of nVent products has been pivotal in the remarkable success of EPEC/QT in delivering top-notch switchboards for solar applications. Beyond the product collaboration is a feeling of mutual respect, hardworking teams and innovative cultures.

To learn more about nVent's solar solutions, visit www.nVent.com/power-utility.



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER

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