

# SURPASSING EXPECTATIONS: PARTNERSHIP HELPING AMERICA GO GREEN



Dominion Energy and Sollatek's partnership surpassed expectations, iVolt's unparalleled efficiency not only achieved significant cost savings but also set a new standard in energy conservation.



Dominion Energy, based in Virginia, stands as one of the United States' major energy producers and distributors, with an extensive portfolio comprising around 26,000 MW of generation, a network of 14,400 miles dedicated to natural gas transmission, gathering, storage and an additional 6,500 miles of electric transmission lines. Their cutting-edge grid optimisation solution, Dominion's EDGE®, seamlessly integrates with existing voltage control equipment through standard protocols, transforming the grid into a more intelligent system. By harnessing customer voltages alongside pre-existing voltage control, Dominion effectively mitigates risks and reduces operational costs.

In their quest for an adaptable building-level optimisation solution, Dominion conducted

a thorough global exploration of the voltage optimisation industry and its key players. This journey led them to Sollatek, not only enticed by its state-of-the-art technology but also by the scalability of Sollatek's solutions. As the engineers and manufacturers of the iVolt, an advanced voltage optimisation unit, Sollatek employs a patented and distinctive method for measuring energy savings in real-time (IRT® technology). Sollatek's versatility proved instrumental in meeting Dominion's specific requirements, including a special voltage application of 227/480VAC.

Dominion initiated trials with two units from Sollatek. The first, IVO3x1000, the larger of the two, was installed at a government site. Simultaneously, the second unit, IVO3x150, is undergoing rigorous testing and trials at

at a glance

## DOMINION POWER



\*  
TOTAL ENERGY  
SAVED (kWh)



**3x1000A**  
IVOLT SIZE



**20/07/2016**  
INSTALL DATE



\*  
ROI ACHIEVED  
(MONTHS)



\*  
CO<sub>2</sub> EMISSIONS  
REDUCED (kg)



**3.71**  
ENERGY  
SAVED (%)



\*Information not disclosed in accordance with client's confidentiality policy.



Virginia Commonwealth University (VCU). Once validated, this unit is earmarked for live demonstrations to potential customers by Dominion, showcasing the efficiency and capabilities of Sollatek's technology.

Moreover, Dominion's strategic choice of Sollatek was underpinned by the latter's commitment to innovation and engineering excellence, traditions deeply rooted in Sollatek's philosophy. This partnership exemplifies the synergy between American energy demands and British engineering ingenuity, underscoring the global collaboration in advancing sustainable solutions for the evolving energy landscape.

Notably, the outcome of this collaboration surpassed expectations. The savings achieved by the iVolt (3.7%) far exceeded those initially predicted

by Dominion (approximately 1.5%). This remarkable performance underscores the efficacy of Sollatek's dynamic solid-state technology and its potential to deliver substantial economic and environmental benefits.

*"Working with iVolt has been a great experience. The iVolt has performed so much better than expected. After a lengthy research project, scrutinising all options and companies, Sollatek was the best option for us."*

*Bruce Ensley,  
Project Director*

### For more information on iVolt:

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The iVolt® was designed in the UK and production takes place at its facility near Heathrow Airport. The company is part of the global Sollatek group and is accredited to ISO9001:2015

iVolt® offer a vast range of product sizes, ranging from 63A to 3,000A and above in both single and three phase, with a number of installations having been completed throughout the commercial, retail, manufacturing, leisure and public sectors.

**iVolt**<sup>®</sup>  
Intelligent Power Optimisation