



CANADA'S SMART GRIDS DESIGNING GRIDS FOR THE DIGITAL FUTURE

The future of the grid is digital. Canadian smart grid solutions are enabling this transition while also achieving environmental, reliability and economic objectives.

Canada is at the forefront of the smart grid industry. Canadian companies, with innovative solutions that support grid services, detect and prevent losses while maintaining quality and reliability are deploying their systems in domestic and international markets.

Canada's ongoing efforts to transition to a clean and renewable power supply and upgrade its electricity infrastructure is a significant driver of transmission and distribution (T&D), and smart grid investment. Canada is a smart grid pioneer, and is one of the world's earliest adopters of smart grid technologies with: More than 50% smart meter penetration, Over 10 GW in distributed generation, 40, 000 Electric Vehicles on the road and almost 1,100 electric vehicle charging stations.

By 2020, smart grid industry in Canada will grow to (approx.) \$2 billion



OPUS ONE SOLUTIONS > www.opusonesolutions.com

Opus One is a software engineering company that brings real-time energy management to the smart grid. Through its leading edge Integrated Grid Operating Platform, GridOS, the company delivers a new level of visibility and control to electricity distribution through sophisticated engineering analytics designed to solve and optimize complex power systems.

Opus One's solutions are deployed in many international markets including New York State, demonstrating the multiple benefits of their software. It gives full visibility into the physics of the distribution grid, as operated, which improves operations and planning capabilities; it enables adaptive control of distributed energy resources (DERs), which allows those DERs to be engaged for grid support or other utility objectives; and finally, it unlocks the potential for new utility business models based on transactive energy.

EXAMPLES OF INNOVATIVE COMPANIES INCLUDE:



SURVALENT TECHNOLOGY > www.survalent.com

Survalent Technology makes real-time operational intelligence and control easy through SurvalentONE ADMS platform. Over five decades, Survalent has helped more than 500 utilities in over 30 countries increase reliability, efficiency and customer service. Survalent ONE's Advanced Distribution Management Systems (ADMS) includes Supervisory Control and Data Acquisition (SCADA); Outage Management System (OMS); Distribution Management System (DMS); and Optional Applications for SCADA, OMS or DMS, all operating under one reliable, resilient and easy-to-use graphical user interface. Over 600 utilities in 30 countries rely on the SurvalentONE platform to effectively operate, monitor, analyze, restore and optimize operations.



SUBNET SOLUTIONS INC. > www.subnet.com

SUBNET is a smart grid company that provides innovative interoperability solutions. Their innovative system combines the latest SUBstation technologies with modern day NETworking and computing technologies enabling electrical utilities to build a smarter, more effective electricity grid. SUBNET was selected by BC Hydro and Power Authority (BC Hydro) to supply a new device management solution to manage and secure access to more than 1,500 closers and feeder protection relays within their distribution network. SUBNET systems also protect substations from cyber-attacks and comply with North American Electric Reliability Corporation (NERC) regulations with easy installation in various North American jurisdictions.



AWESENSE > www.awsense.com

Awesense provides real-time grid monitoring, energy balance, and analytics solutions for utilities to audit and monitor the distribution grid and address non-technical losses. The company's product True Grid Intelligence (TGI) is a combination of software and IoT devices available in three subscription versions—Lite, Aware, and Premium— to provide a range of solutions as per need, leading to more efficient supply of energy through the distribution grid.

MORE FIRMS OFFERING SMART GRID SOLUTIONS:

- > GaN Systems
- > GridCure
- > Intellimeter Canada Inc.
- > MMB Networks
- > N-dimension Solutions
- > dTechs
- > Enbala
- > Eguana Technologies
- > Solantro Semiconductor Corp
- > SPARQ Systems
- > Tantalus Systems Corp.
- > Terrestrial Energy
- > Utilismart Corp.



ENERGY
INNOVATION
SNAPSHOT

For more information about Canadian innovative energy companies and projects please visit
> energyinnovationsnapshot.ca

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