



Atlantic Power
SALES

APS Newsletter

1st Quarter, 2018

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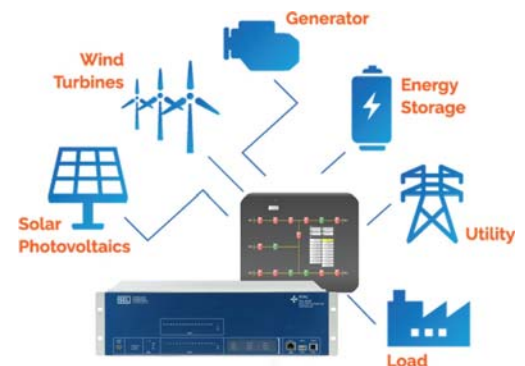
Welcome!

Atlantic Power Sales, LLC is pleased to release the first edition of our 2018 newsletter. We will be distributing these newsletters periodically to better inform our customers about any new products that have been released as well as any news concerning the latest principals we currently represent. Feel free to visit our website, <http://www.atlanticpowersales.com/>, to view our current product lines with a brief overview of the services and products they provide. We have also included a copy of the APS line card on the last page of this newsletter for your convenience. In January 2018, APS was pleased to add both Morgan Schaffer and Vanguard Instruments by Doble to our principal offerings. Be sure to find out more information on Morgan Schaffer and Vanguard Instruments products and services from your local APS sales representative. In order to provide better communication to our customers, we hope you will find these newsletters to be both beneficial and informative.

SEL Distribution Network Automation

The SEL Real Time Automation Controller (RTAC) is well known as a substation RTU, Data Concentrator, and HMI for complete substation control and monitoring. SEL Engineering Services have also developed a Distribution Automation Controller (DAC) Library which provides excellent control of automatic network reconfiguration, coordination preservation with reconfigured networks, volt/var control, var support, control of inverter-based generation, centralized control/engineering access, fault location and automated event collection.

Please talk to your local APS salesman about your needs and plans for Distribution Automation Schemes!



<https://selinc.com/solutions/distribution-network-automation/>

SEL Wireless Fault Indicators

Your distribution automation system can also be enhanced with the new wireless fault indicators from SEL – the high speed FT50/FR12 for protection applications or the SCADA data you can collect from the FLT/FLR. Either product utilizes unlicensed 900Mhz communications from the fault indicator to a receiver over distances of up to 4 miles for the FT50 or up to 10 miles for the FLT.

SEL-FLT Wireless Fault Indicator/SEL-FLR Ethernet Receiver

The FLT/FLR utilizes DNP over Ethernet to communicate to your SCADA system. Up to 192 FLT fault indicators communicate to one FLR receiver and provide fault indication, load current accurate to +/-2%, as well as fault current. The FLT also provides visual indication to linemen similar to the SEL AR360 fault indicator.



SEL-FLT Wireless Fault Indicator and SEL-FLR Ethernet Receiver - <https://selinc.com/products/flt/>

SEL-FT50 Wireless Fault Indicator/SEL-FR12 Mirrored Bits Receiver

The FT50/FR12 utilizes Mirrored Bits communications to an SEL relay or recloser control to modify your traditional protection schemes. Block reclosing for underground line sections, speed up reclosing for faults on the main circuit backbone, or combine fuse saving and fuse clearing schemes on select circuits.



SEL-FT50 Wireless Fault Indicator and SEL-FR12 Mirrored Bits Receiver - <https://selinc.com/products/FT50/>

Doble Acquires Morgan Schaffer and Vanguard Instruments

Doble was very busy in 2017 with the acquisition of Morgan Schaffer and Vanguard Instruments. These two companies provide Doble with a well-rounded portfolio of online monitoring with the Morgan Schaffer Calisto family as well as a more thorough offering of offline test equipment with Vanguard Instruments.

The Calisto

The Calisto dissolved gas analyzers are an excellent way to detect gassing in transformers before a catastrophic failure occurs. The Calisto is the most accurate with best repeatability and widest measurement range of any DGA unit on the market. There are four different Calisto analyzers which meet the needs for every size transformer customer monitoring requirements. Data is stored locally on the unit and can also be communicated to SCADA via DNP Serial or Ethernet. If your facility already has existing online gas monitors, like the GE Hydran, the Calisto is an excellent upgrade path!



<https://www.morganschaffer.com/>

Vanguard Instruments

Vanguard Instruments was established in 1992 and is well known in the industry for their rugged, easy to operate test instruments. All major test instruments can be operated from the front panel or through a PC. Vanguard will continue to operate from their factory in Ontario, CA, as a division of Doble.

Vanguard test instruments include many models with varying features for:

Circuit Breaker Contact Resistance Meters (Micro-Ohmmeter)
Current Transformer Testers
Transformer Turns Ratio (TTR) Testers
Transformer Winding Resistance Meters
Vacuum Bottle Testers
Relay Test Equipment, including Primary Current injection up to 600A



Current Transformer Tester

<http://www.vanguard-instruments.com/>

North American Substation Services (NASS)

NASS is the largest independent substation transformer and breaker service company in North America now operating over 50 transformer oil processing rigs. In 2017, NASS purchased NOMOS with manufacturing in Quebec, Canada. Nomos is the North American specialist in the design, electrical engineering and manufacturing of transformer and breaker control cabinets. If you have transformers or breakers with degraded control cabinets, please contact us to get a quote for a replacement control cabinet! <http://www.nomosystemes.com/en/>

NASS also started offering ground grid testing services within the last couple of years. NASS technicians can test the continuity of every ground lead (pigtail) in your substation with a high current DC source to determine if damage has occurred due to construction activities, theft, or corrosion over time. NASS also has a Smart Ground Meter (SGM) to perform a Fall of Potential test and determine safety levels for step and touch potential. Both of these test methods can be conducted while the substation is energized.

CresaTech Ltd

Speaking of ground grids, Cresatech was a new addition to the APS portfolio in 2017. The Cresatech CuTS® ZM system monitors grounding infrastructure on electricity substations for theft or damage in real time, alarming for ground grid changes and the associated risk for employees and the public. CuTS® monitors metallic infrastructure for change due to cutting/removal, damage or degradation. The CuTS® tamperproof module incorporates a unique and patented inductance sensor that is sensitive to small changes in inductance down to 0.02 micro Henrys. When the Cresatech sense wires detect a change beyond pre-set and adjustable thresholds, the alarm is activated. The substation ground grid can be set up into zones for monitoring and alarming. <http://www.cresatech.com/product/cuts-zm/>

Mesa Technical Associates

Mesa offers Batteries, Mobile Power Systems, Chargers, Turn-Key *Engineer, Furnish, & Install* (EF&I) Solutions, and Certified Recycling Services. The latest Mesa Charger offering is the Mesa One Battery Charger. We all know the DC system is the most critical equipment in the substation. This charger has a modular design with built in rectifier board redundancy – it's like having two chargers in your substation! It also communicates to your RTU or SCADA system over serial or Ethernet, Modbus or DNP.

Mesa One Industrial Battery Charger



<http://mesa-tec.com/mesa-one-industrial-battery-charger/>

SEL will be conducting some extensive training classes this year in Charlotte, NC. Visit the links below for details on each available class. Register online now as space is limited!

[PROT 401: Protecting Power Systems for Engineers](https://selinc.com/selu/courses/prot/401/)

<https://selinc.com/selu/courses/prot/401/>

April 23–27, 2018

Charlotte, North Carolina, USA

SELU

[APP 751: SEL-751/A Feeder Protection Relays](https://selinc.com/selu/courses/app/751/)

<https://selinc.com/selu/courses/app/751/>

June 13–14, 2018

Charlotte, North Carolina, USA

SELU

[APP 3530: SEL-3530 Real-Time Automation Controller \(RTAC\)](https://selinc.com/selu/courses/app/3530/)

<https://selinc.com/selu/courses/app/3530/>

September 11–13, 2018

Charlotte, North Carolina, USA

SELU

Join us at the SEL Smoky Mountains Interactive Seminar!

<http://events.selinc.com/events/sel-smoky-mountains-interactive-seminar/event-summary-17b1516475524355a7f7b0694cdf381d.aspx>

May 15–17, 2018

Gatlinburg, TN, USA