Newton-Evans research company Announces Publication of

The Worldwide Market for Substation Automation and Integration programs in Electric Utilities: 2014-2016

In 2014 Newton-Evans completed its tenth worldwide study of the market for substation automation and integration systems in electric utilities. This 4-volume report series:

1) Measures current market sizes
2) Estimates and forecasts demand for substation automation equipment through YE 2016
3) Profiles utility requirements as well as broader product and market requirements

Here are some of the topics that have been covered in previous studies of the Substation Automation market:

- Ranking of significance from 1 to 5 for all of the following listed "potential obstacles" to implementing substation automation and integration for both new and retrofit substations through year-end 2016.

- Estimate of probable spending for new and retrofit substation automation and integration programs

- Level of automation for T&D substations

- Choice of protocol within the substation, between substations, and from the substation to the external host or network

- Encryption of protocols

- Alternate methods of communication with the remote site in the event of loss of the routine communications pathways

- Approximate number of Ethernet ports per substation for the following types of substations as they are now in 2013 and as they are expected to be in 2016

- Security of Ethernet ports

- Redundancy in Ethernet networks

- Protocols used for redundancy

- Need for Ethernet switches/routers to meet the requirements of IEEE 1613 (Environmental and Testing requirements for substation based communications networking device)

- Substation Ethernet LAN architectures usage & plans by year end 2016

- Maximum allowed failover/recovery time (in seconds) for network reconfiguration

- Number of simultaneous wireless connections allowed in Transmission substations

- Number of simultaneous wireless connections allowed in Distribution substations

- Application of communication links

- Usage of routable paths to the end devices

- Choice of communications architecture within the substation and to the substation

- Handling methods for substation information processing tasks "inside the fence"

- External assistance needed for substation automation and integration-related activities

- Total number of WAN multiplexers installed and planned for purchase 2014-2016

- Number of computing platforms per substation

- Substation-based computing platform applications

- Equipment types as part of substation-wide automation and integration programs, and preferred vendors

- Vendor Security Certification Programs

The principal source of information for this research study of the worldwide market for substation automation and integration programs is the substation engineering unit of major investor-owned utilities, municipal, provincial and cooperative utilities within the United States and Canada, together with national and regional power systems throughout the world. Field survey work is conducted using a mix of primary research methods, including mail, fax and e-mail. When necessary, follow-up e-mail and telephone interviews were conducted by Newton-Evans Research Company staff.

This study is currently available – call or visit our website to order.

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