
Description:

This publication is Newton-Evans Research Company's tenth major in-depth international research program on supervisory control and data acquisition (SCADA) systems, energy management systems (EMS), distribution management systems (DMS), and Outage Management Systems (OMS).

The four volume series measures current market size and offer projections on a world region basis through the year 2015. It includes a North American Market Survey and Analysis, International Market Survey and Analysis, World Market Assessment and Forecast, and SCADA/EMS/DMS/OMS Supplier Profiles for major companies.

The world regions included in the research publications are the North American, European, Latin American, Middle East, Mediterranean, African and Asia Pacific markets. The series provides a comprehensive and informative report on the control systems usage patterns and plans of electric utilities around the world.

Key Issues Addressed

- Approximate number of Poletop RTUs, Feeder/secondary RTU's/Smart DA devices, Substation RTUs, PLCs, SA platforms, Synchrophasor measurement units, and Substation level phasor data concentrators. Anticipated numbers planned for installation by year-end 2015, along with protocol requirements.

- Have utilities converged SCADA/DMS and OMS functions?

- Cyber security concerns if EMS/DMS or DMS/OMS are combined.

- Plans to implement IEC 61850 beyond 2015.

- Utility use of or plans to implement a separate outage management system (OMS) and/or a generation management system (GMS) by year-end 2015.

Sample Survey Topics

- Extent of use of SCADA, EMS and DMS systems by the world's electric power utilities.

- New applications of interest to electric power operations management teams.

- SCADA/EMS/DMS/OMS procurements. New, replacement and upgrade plans for SCADA/ EMS/DMS.

- External assistance and third party services requirements in control center operations.

- Choice of communications protocols within substation, & from substation to external EMS/SCADA/DMS host network.

- Current and planned external linkage requirements of for SCADA/EMS/DMS systems.

Research Methods

Chief operations and chief engineering personnel were the principal source of information for this program of the world electric power market for SCADA, EMS and DMS systems in electric utilities.

The field survey work is conducted using several primary research methods including personal interviews, e-mail, mail and fax surveys, with telephone follow-up conducted by Newton-Evans staff and research
partners. Discussions and information exchanges with international suppliers provide additional market insight.

Newton-Evans has established business partner centers in Western Europe, Latin America, Russia, China and the Middle East. This development provides an ideal opportunity to conduct global research programs for the energy industry.

*This is Volume 2 of 4

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20a. Significance of budget increases due to NERC CIP or other regulatory compliance efforts

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22. Comments, suggestions for new features, tools, applications or services needed or expected from EMS/SCADA/DMS vendors

Findings from Questions Asked on Previous EMS/SCADA/DMS Surveys

Use and plans to implement a separate generation management system (GMS) by Y-E 2012

Use and plans to implement a separate outage management system (OMS) by year-end 2012

Please specify your current/future plans for linking (via data link or RTU) your EMS, SCADA, and/or DMS to the following systems

Does your utility plan to “self-fund” any Smart Grid initiatives?

Please rank the relative importance of the following Smart Grid components on a scale of 1-9, where 1= ”most important“ and 9= “least important“. Use each number only once.

Which of the following DISTRIBUTION MANAGEMENT SYSTEM functions and applications does your utility use or plan to bring on-stream by year end 2012?

Which of the following ENERGY MANAGEMENT SYSTEM functions and applications does your utility use or plan to bring on-stream by year end 2012?

Which of the following OUTAGE MANAGEMENT SYSTEM functions and applications does your utility use or plan to bring on-stream by year end 2012?

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