
Description: This publication is the ninth major in-depth international research program on supervisory control and data acquisition (SCADA) systems, energy management systems (EMS) and distribution management systems (DMS). The four volume series measures current market size and offer projections on a world region basis through the year 2012. It includes a North American Market Survey and Analysis, International Market Survey and Analysis, World Market Assessment and Forecast, and SCADA/EMS/DMS Supplier Profiles for 17 companies.

This study provides an in-depth appraisal of the central and remote site hardware, applications software, and communications services that electric utilities are requesting during the next round of procurements for SCADA, EMS and DMS systems for the forecast period. In addition to profiling utility requirements individually, the research program focuses on defining the broader product and market requirements that suppliers must meet in order to successfully participate in the SCADA, EMS and DMS programs within the electric utility community worldwide.

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 pole top RTUs, substation RTUs, substation PLCs, bay controllers and substation controllers currently installed in SCADA/EMS/DMS. Anticipated numbers planned for installation by year-end 2012, along with protocol requirements.
- Current/future plans for connecting SCADA, EMS and DMS to existing systems.
- Cyber security concerns if EMS/DMS or DMS/OMS are combined.
- Plans to implement IEC 61850 beyond 2012.
- Utility use of or plans to implement a separate outage management system (OMS) and/or a generation management system (GMS) by year-end 2012.

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 procurements. New, replacement and upgrade plans for SCADA/ EMS/DMS.
- External assistance and third party services requirements in control center operations.
- Choices of communications protocols within the substation, and from the 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 the publishers staff and research partners. Discussions
and information exchanges with international suppliers provide additional market insight.

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