

A Four-Volume Report by Newton-Evans Research Company

Newton-Evans' Worldwide Study of the Protective Relay Marketplace: 2016-2018 is a four volume, multi-client market report. Participants in this market study include utility engineers and managers from investor-owned utilities, municipal and provincial utilities, cooperative utilities within the United States and Canada, together with national power systems throughout the world.

The study measures current market sizes and contains projections on a world region basis for the next few years. The entire research program will define the product and market requirements which suppliers must meet in order to successfully participate in one or more of these diverse world market regions.

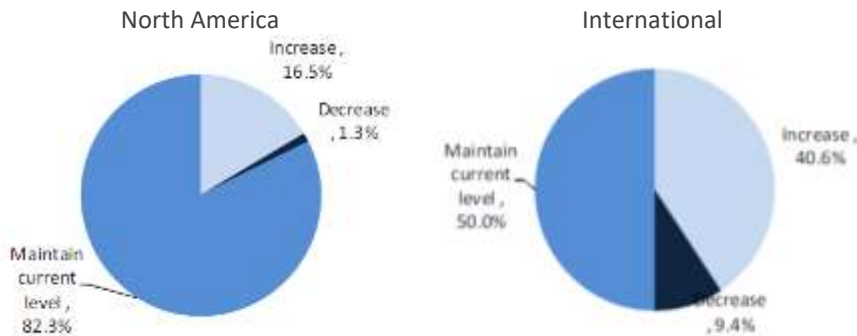
Newton-Evans Research Company estimates from our earlier 2012 relay market study indicate that the North American protective relay market stood at almost \$600 million for both utility and industrial applications. It will be important for the P&C community to learn how changes in the world market conditions since 2014 will affect the outlook for 2016-2018.

Methodology

Field survey work is conducted using a mix of primary research methods including personal interviews, mail surveys, faxes, e-mail and follow-up telephone interviews. Over the past 15 years, more than 1,000 utility officials have participated in one or more Newton-Evans grid modernization and protective relay-related studies.

Sample Charts

Electric Utilities' Planned Changes To Capital Investment For Relay Testing Equipment, Software And Training Over 2014-2015



Operation Strategies For WAN Remote Access To Relays

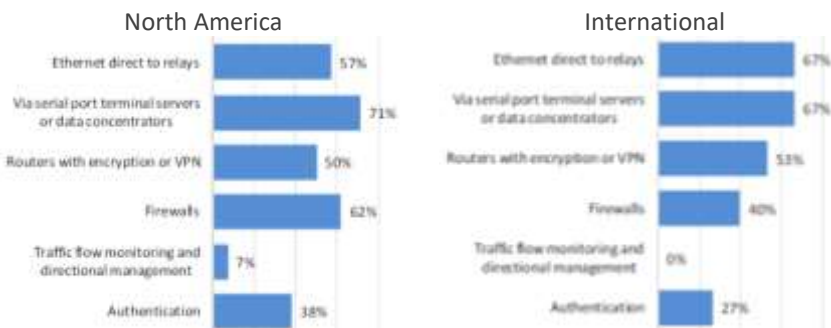


Table of Contents

The survey-based findings in **Volumes 1 (North American Market) and 2 (International Market)** will discuss the following:

- Percentage of digital/microprocessor relays in installed base and planned for new and retrofit applications purchases
- Estimates of annual budgets for protective relay hardware purchases
- Communications approaches for wide area networks
- Relay communications protocol requirements
- Types of relay scheme redundancy used for microprocessor-based relaying terminals
- Uses of IEC 61850 within substation, for protection, for control, and for SCADA communications
- Outsourcing trends for relay testing, engineering, integration

Volume 3:

1. Introduction
2. Executive Summary
3. Protective Relay Market Sub-segments
4. Trends and Observations on the North American Relay Market
5. Accompanying North American Market Share Tables and Charts:
 - North American Factory Shipments of Protective Relays
 - by Market Segment
 - by Protective Relay Application
 - by North American Relay Manufacturers
 - Global Factory Shipments of Protective Relays
6. Supplier Profile Overview of the Protective Relay Marketplace
7. Global Protective Relay Market Information and Size Estimates

Volume 4:

Company Profiles of over 25 major relay manufacturers and related equipment providers including (but not limited to) ABB, Alstom Grid USA Inc., Arcteq Relay LTD, Basler Electric, Beckwith Electric Company, CEE Relays, Ltd., Comlec Pte. Ltd., Cooper Power Systems, Crompton Instruments Division, Eaton Corporation, ERL Phase Power Technologies Ltd., Fanox Electronic, S.L., FKI Switchgear, GE Multilin, ICE Group, Nari-Relays Electric Co. Ltd., Orion Italia, RFL Electronics, Schneider Electric, SEL (Schweitzer Engineering Laboratories, Inc.), Siemens (REYROLLE and SIPROTEC), Toshiba, ZIV

Product descriptions and key contacts are provided, as well as reported 2014 and 2015 revenues where available.

Ordering

To order the Newton-Evans report, “Worldwide Study of the Protective Relay Marketplace In Electric Utilities: 2016-2018,” mail this order form to the address below or fax it to +1 410 750 7429. Send email to info@newton-evans.com or call +1 410 465 7316 if you have any questions.

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- All 4 volumes: \$6,500
- Volume 1: North American Market - \$2,000
- Volume 2: International Market - \$2,000
- Volume 3: Market Analysis/Forecast - \$2,500
- Volume 4: Supplier Profiles - \$575

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