



Table of Contents (Volume 2)

About These Reports.....ii
 Table of Contentsiii
 Research Standards & Methodology.....v

SECTION 1: INTRODUCTION

Overview 1-1
Deregulation Impact 1-1
Restructuring & Competition 1-2
New Rules – New Realities 1-2
A Look to the Future 1-3

SECTION 2: PRINCIPAL MARKET DRIVERS

Business Assessment 2-1
Standards Considerations 2-2
Role of Technology 2-3
Business & Technology Drivers 2-6
 Business Drivers 2-6
 T&D Reliability, Availability & Throughput 2-6
 Customer Service Demands 2-7
 Diminishing Utility Resources 2-8
 Utility Mergers & Acquisitions 2-8
 Market Restructuring & Competition 2-9
 Technology Drivers 2-10
 Technical Obsolescence 2-10
 Capacitor Switching; VAR Control & VAR Dispatch 2-11
 “Smart Substation” Architecture 2-11
 Communications Advancements 2-12
 Application Service Provider (ASP) Model 2-12

SECTION 3: KEY ISSUES & TRENDS

TDMS Market Evolution & Outlook 3-1
 Regulatory Policy & Governance 3-2
 Economics & Investment 3-6
 Technology, Integration & Standardization 3-10
 Data Integrity & System Security 3-14
 Web & Wireless Solutions 3-16
 System Reliability & Maintenance 3-19
 Customer Satisfaction & Service 3-20



Table of Contents (Volume 2)

SECTION 4: Challenges & Opportunities

Application Service Provider (ASP) Model	4-1
ASP Web Hosting & Support	4-2
Data Access & Security	4-3
Outage Management Systems (OMS)	4-3

APPENDICES

A: Key to Abbreviations	A-1
B: Glossaries:	B-1
CEA-Canadian Electricity Glossary ¹	
FERC-Electric Deregulation Glossary ²	
GITA-Geospatial Information Technology Association Glossary ³	
AGI-Association For Geographic Information Glossary ⁴	
C: Relevant Organizations, Publications & Events	C-1
TDMS Organizations	C-1
TDMS Publications	C-2
TDMS Events	C-3

¹ Courtesy of the Canadian Electricity Association (www.canelect.ca)
² Courtesy of the Federal Energy Regulatory Commission (www.ferc.gov)
³ Courtesy of the Power Marketing Association (www.powermarketers.com)
⁴ Courtesy of the Power Marketing Association (www.powermarketers.com)