The Status of U.S. Demand Response - 8th Edition

Description: The 8th Edition of The Status of U.S. Demand Response is a 70-page overview of the drivers of, barriers to, and use of demand response.

A fundamental imbalance looms between supply and demand and continues to threaten system stability, reliability, power quality, and the cost of power. While the industry has taken some steps to respond to this imbalance, to date it has not taken full advantage of business models that use demand modification as a solution. A major objective of this report is to provide readers with an understanding of where demand response currently stands in the U.S. and what needs to be done to increase its market penetration.

Topics covered in the report include:

- Analysis of why demand response is needed to respond to recent changes in wholesale electric markets
- Discussion of the evolution of demand response over the last four decades
- Evaluation of contemporary demand response programs
- Overview of current usage of demand response
- Analysis of the key business factors that are driving increased interest in demand response
- Analysis of the barriers that are hindering the implementation of demand response and how to resolve them
- Description of the different types of demand response programs in use today
- Quantification of the current usage of demand response
- Descriptions of the key RTO demand response programs in operation

Contents:

ACRONYMS AND ABBREVIATIONS

INTRODUCTION

WHY IS DEMAND RESPONSE NEEDED?

THE HISTORY OF DEMAND RESPONSE

TODAY'S DEMAND RESPONSE PROGRAMS
- Characteristics of Contemporary Demand Response
- The Relationship between Demand Response and Energy Efficiency
- The Economic Rationale for Demand Response

CURRENT USE OF DEMAND RESPONSE
- The Role of Demand Response in Regional Planning
- Demand Response Statistics

KEY BUSINESS DRIVERS OF DEMAND RESPONSE GROWTH
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- Cost Effectiveness
- System Efficiency
- Environmental Concerns
- Growing Energy Demand

BARRIERS TO IMPLEMENTATION OF DEMAND RESPONSE
- What is Hindering Market Penetration for Demand Response?
- How Can the Barriers to Demand Response be Overcome?
- FERC Efforts to Encourage Demand Response

THE MULTIPLE FACES OF DEMAND RESPONSE
- Direct Load Control
- Interruptible/Curtailable Load
- Time-of-Use
- Real-time Pricing
- Demand Bidding
- Emergency Demand
- Capacity Markets
- Ancillary Services

POTENTIAL U.S. DEMAND RESPONSE

RTO DEMAND RESPONSE PROGRAMS
- California ISO
- Electric Reliability Council of Texas
- ISO New England
- Midwest ISO
- New York ISO
- PJM Interconnection

GLOSSARY

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