

Table of Contents

Acronyms and Abbreviations..... 5

Introduction 8

Overview of the Electric Grid of the Future..... 9

Key Technologies Needed to Construct the Electric Grid of the Future 11

Smart Meters..... 11

Two-way Communications Networks 11

Meter Data Management Systems..... 12

Energy Management and Control Technology..... 13

Distribution/Substation Automation Technology..... 14

Capabilities Enabled by the Electric Grid of the Future 15

Dynamic Pricing 15

Real-Time Feedback..... 16

Demand Response..... 17

Microgrids..... 19

Electric Vehicles..... 20

Key Players in the Electric Grid of the Future..... 22

Accenture 22

Cisco Systems..... 25

Comverge..... 27

CPower..... 33

Echelon 36

Ecologic Analytics 40

eMeter 43

EnerNOC..... 47

GridPoint 50

Honeywell Building Solutions 55

IBM..... 58

Itron 63

S&C Electric 69

Silver Spring Networks..... 73

SmartSynch..... 79

Tendril Networks 83
Trilliant..... 87