

Energy-efficient Technologies for Global Residential Markets

<https://marketpublishers.com/r/E167A448691EN.html>

Date: November 2017

Pages: 193

Price: US\$ 2,750.00 (Single User License)

ID: E167A448691EN

Abstracts

Report Scope:

The scope of this investigation includes new construction and retrofits for major residential energy efficiency technology categories that are popular or gaining market share in regional or national level markets. Residential energy efficiency technologies help to reduce energy consumption within single family residences, as well as multiple family dwelling units including apartments, condominiums, and townhouses. Specific technology categories considered in this report comprise the individual technologies identified in the following table. Within this framework, market breakdowns are provided for the following categories as relevant to new residential building construction and retrofits, shown in the table. Estimated values used are based on manufacturers' total revenues. Projected and forecasted revenue values are in constant U.S. dollars, unadjusted for inflation.

Report Includes:

50 data tables and 59 additional tables

An overview of energy-efficient technologies for global residential markets

Analyses of market trends, with data from 2016, estimates for 2017, and projections of compound annual growth rates (CAGRs) through 2022

Information on residential buildings, including single-family dwellings, as well as duplexes and residential complexes, including apartments and condominiums (multifamily dwellings)

Details concerning various residential energy-efficiency technologies that are available, their applications, and a background section describing the importance of residential energy-efficiency technologies in terms of benefits to residential building owners and benefits to utilities and grid systems operators (the latter of which help to drive incentives)

A high-level overview of industry activity within the residential energy-efficiency technologies market, based on available data

A regional breakdown of the market into North American, European, and Asian markets

Comprehensive company profiles of major players in the industry

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Intended Audience
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Introduction to Residential Energy Efficiency
History of Residential Energy Efficiency
New Construction Versus Retrofitting
Costs and Benefits of Energy Efficiency
Initial and Maintenance Costs (Procurement, Installation, and Upkeep)
Reduced Energy Consumption or Loss
Environmental Benefits
Greenhouse Gas Emissions Reduction
Air and Water Quality Emission Reduction
Energy Security Benefits
Efficiency as an Offset for Additional Generation Capacity
Energy-efficiency Technologies and Applications
Efficient Heating and Cooling
Efficient Lighting - LEDs
Weather Barriers and Energy-efficient Insulation
Advanced Windows and Window Coverings
Efficient Controls
Emerging Technologies

CHAPTER 4 MARKET FOR ENERGY-EFFICIENT HEATING AND COOLING

Scope of Market Analysis
Energy-efficient HVAC
Energy-efficient Tankless Water Heaters
Heat Pump Water Heaters
Summary of the Energy-efficient Heating and Cooling Market

CHAPTER 5 ENERGY-EFFICIENT LIGHTING MARKET

Energy-efficient Lighting Market
Scope of Market Analysis
LEDs

CHAPTER 6 ENERGY-EFFICIENT RESIDENTIAL BUILDING ENVELOPE TECHNOLOGIES MARKET

Scope of Market Analysis
Energy-efficient Weather Barriers and Insulation
Advanced Windows and Window Coverings
Summary of the Energy-efficient Residential Building Envelope Technology Market

CHAPTER 7 RESIDENTIAL MARKET FOR ENERGY-EFFICIENT CONTROLS

Scope of Market Analysis
Energy-efficient Thermostats
Energy-efficient Smart Home Automation
Summary of the Energy-efficient Controls Market

CHAPTER 8 REGULATORY TRENDS AND INCENTIVIZATION

North America
Energy Star
Energy Star Canada
U.S. Green Building Council
Building Technologies Office
Better Buildings Initiative
Clean Air Act Permitting for Greenhouse Gases
Canadian Office of Energy Efficiency
North America Analysis
Europe

2020 CLIMATE AND ENERGY PACKAGE

2030 ENERGY STRATEGY

Energy Efficiency Directive

National Energy Efficiency Action Plans

Nearly Zero Energy Buildings

Horizon 2020

Europe Analysis

Asia

China

Japan

India

Southeast Asia

Asia Analysis

CHAPTER 9 INDUSTRY AND MARKET TRENDS

Supply Chain for Energy-efficient Residential Technologies

Supply Chain Participants and Structure

Opportunities for Supply Chain Optimization

Beyond Supply Chain Efficiency

Industry Organizations

Key Trends Influencing Markets

Reduced Energy Expenditure

Larger Homes, Increased Efficiency

Real Estate and Rental Values for Efficient Residential Buildings

Developer Incentive for Investment in Residential Energy-efficiency Technologies

Residential Real Estate Markets Strongly Influence Markets

Regulatory Drivers

Managing the Energy Efficiency Cost Differential

Quest for Energy Efficiency

CHAPTER 10 COMPANY PROFILES

Energy-efficient HVAC

BRYANT HEATING & COOLING SYSTEMS

CARRIER

DAIKIN INDUSTRIES

JOHNSON CONTROLS

LENNOX INTERNATIONAL

LG ELECTRONICS
MITSUBISHI ELECTRIC CORP.
TRANE CO.
Energy-efficient Boilers
CROWN BOILER CO.
LAARS HEATING SYSTEMS CO.
VISSMANN
WEIL-MCLAIN
Energy-efficient Water Heating
A.O. SMITH WATER PRODUCTS
BOSCH THERMOTECNOLOGY
BRADFORD WHITE CORP.
ELECTROLUX
MITSUBISHI ELECTRIC
NAVIEN INC.
NORITZ
RHEEM
RINNAI
SEARS
Energy-efficient Windows, Doors, and Window Coverings
ANDERSEN CORP.
JELD-WEN INC.
MARVIN WINDOWS AND DOORS
MASONITE INTERNATIONAL
PELLA CORP.
PLY GEM
PROVIA
THERMA-TRU DOORS
Energy-efficient Lighting
ACUITY BRANDS
AFX INC.
CREE
GE LIGHTING
HUBBELL LIGHTING
NORA LIGHTING
OSRAM SYLVANIA
PHILIPS LIGHTING
NUVO LIGHTING
Energy-efficient Thermostats

CADET ENERGY
CARRIER
ECOBEE
EMERSON CLIMATE TECHNOLOGIES
HAILIN ENERGY TECHNOLOGY
HONEYWELL
INSTEON
LENNOX INTERNATIONAL
NEST
VENSTAR
Home Energy Management Technologies
ACLARA TECHNOLOGIES
ALARM.COM
CENTRICA
BELKIN INTERNATIONAL
BLUE LINE INNOVATIONS
ENERGATE
ORACLE UTILITIES/OPOWER
SAVANT SYSTEMS

TRILLIANT INC.

List Of Tables

LIST OF TABLES

Table A: Residential Energy Efficiency Categories and Technologies Considered

Table B: Research Information Sources

Summary Table: Global Market for Residential Energy-efficiency Technologies, by Category, Through 2022

Table 1: Residential Energy-efficiency Technologies Considered in this Study

Table 2: Reasons for a Higher Initial Cost of a Residential Energy-efficient Technology

Table 3: Initial and Maintenance Cost Premiums for Energy-efficient Residential Technologies Relative to Default Technology

Table 4: Energy Savings and Increased Lifetime for Energy-efficient Residential Technologies Relative to Default Technology

Table 5: Global Market for Energy-efficient HVAC, by Region, Through 2022

Table 6: Global Market for Energy-efficient HVAC, by Region, Through 2022

Table 7: North American Market for Energy-efficient HVAC, by Country, Through 2022

Table 8: European Market for Energy-efficient HVAC, by Country, Through 2022

Table 9: Asian Market for Energy-efficient HVAC, by Country, Through 2022

Table 10: Global Market for Efficient Tankless Water Heaters, by Region, Through 2022

Table 11: Global Market for Efficient Tankless Water Heaters, by Region, Through 2022

Table 12: North American Market for Efficient Tankless Water Heaters, by Country, Through 2022

Table 13: European Market for Efficient Tankless Water Heaters, by Country, Through 2022

Table 14: Asian Market for Efficient Tankless Water Heaters, by Country, Through 2022

Table 15: Global Market for Heat Pump Water Heaters, by Region, Through 2022

Table 16: Global Market for Heat Pump Water Heaters, by Region, Through 2022

Table 17: North American Market for Heat Pump Water Heaters, by Country, Through 2022

Table 18: European Market for Heat Pump Water Heaters, by Country, Through 2022

Table 19: Asian Market for Heat Pump Water Heaters, by Country, Through 2022

Table 20: Global Market for Energy-efficient Heating and Cooling, by Region, Through 2022

Table 21: Global Market for Energy-efficient Heating and Cooling, by Technology, Through 2022

Table 22: Global Market for LED Lighting, by Region, Through 2022

Table 23: Global Market for LED Lighting, by Region, Through 2022

Table 24: North American Market for LED Lighting, by Country, Through 2022

Table 25: European Market for LED Lighting, by Country, Through 2022

Table 26: Asian Market for LED Lighting, by Country, Through 2022

Table 27: Global Market for Weather Barriers and Efficient Insulation, by Region, Through 2022

Table 28: Global Market for Weather Barriers and Efficient Insulation, by Region, Through 2022

Table 29: North American Market for Weather Barriers and Efficient Insulation, by Country, Through 2022

Table 30: European Market for Weather Barriers and Efficient Insulation, by Country, Through 2022

Table 31: Asian Market for Weather Barriers and Efficient Insulation, by Country, Through 2022

Table 32: Global Market for Advanced Windows and Window Coverings, by Region, Through 2022

Table 33: Global Market for Advanced Windows and Window Coverings, by Region, Through 2022

Table 34: North American Market for Advanced Windows and Window Coverings, by Country, Through 2022

Table 35: European Market for Advanced Windows and Window Coverings, by Country, Through 2022

Table 36: Asian Market for Advanced Windows and Window Coverings, by Country, Through 2022

Table 37: Global Market for Energy-efficient Residential Building Envelope Technologies, by Region, Through 2022

Table 38: Global Market for Energy-efficient Residential Building Envelope Technologies, by Technology, Through 2022

Table 39: Global Market for Energy-efficient Thermostats, by Region, Through 2022

Table 40: Global Market for Energy-efficient Thermostats, by Region, Through 2022

Table 41: North American Market for Energy-efficient Thermostats, by Country, Through 2022

Table 42: European Market for Energy-efficient Thermostats, by Country, Through 2022

Table 43: Asian Market for Energy-efficient Thermostats, by Country, Through 2022

Table 44: Global Market for Energy-efficient Smart Home Automation, by Region, Through 2022

Table 45: Global Market for Energy-efficient Smart Home Automation, by Region, Through 2022

Table 46: North American Market for Energy-efficient Smart Home Automation, by Country, Through 2022

Table 47: European Market for Energy-efficient Smart Home Automation, by Country,

Through 2022

Table 48: Asian Market for Energy-efficient Smart Home Automation, by Country,
Through 2022

Table 49: Global Market for Energy-efficient Controls Market, by Region, Through 2022

Table 50: Global Market for Energy-efficient Controls Market, by Technology, Through
2022

Table 51: Major Active Industry Organizations Supporting Residential Building Energy
Efficiency and Associated Industries

Table 52: Company Overview: Bryant Heating & Cooling Systems

Table 53: Company Overview: Carrier Corp.

Table 54: Company Overview: Daikin Industries

Table 55: Company Overview: Johnson Controls

Table 56: Company Overview: Lennox International

Table 57: Company Overview: LG Electronics

Table 58: Company Overview: Mitsubishi Electric

Table 59: Company Overview: Trane Co.

Table 60: Company Overview: Crown Boiler Co.

Table 61: Company Overview: Laars Heating Systems Co.

Table 62: Company Overview: Viessmann

Table 63: Company Overview: Weil-McLain

Table 64: Company Overview: A.O. Smith Water Products

Table 65: Company Overview: Bosch Thermotechnology

Table 66: Company Overview: Bradford White Corp.

Table 67: Company Overview: Electrolux

Table 68: Company Overview: Mitsubishi Electric

Table 69: Company Overview: Navien

Table 70: Company Overview: Noritz

Table 71: Company Overview: Rheem

Table 72: Company Overview: Rinnai

Table 73: Company Overview: Sears

Table 74: Company Overview: Andersen Corp.

Table 75: Company Overview: JELD-WEN Inc.

Table 76: Company Overview: Marvin Windows and Doors

Table 77: Company Overview: Masonite International

Table 78: Company Overview: Pella Corp.

Table 79: Company Overview: Ply Gem Windows

Table 80: Company Overview: Provia

Table 81: Company Overview: Therma-Tru Doors

Table 82: Company Overview: Acuity Brands

- Table 83: Company Overview: AFX Inc.
- Table 84: Company Overview: Cree
- Table 85: Company Overview: GE Lighting
- Table 86: Company Overview: Hubbell Lighting
- Table 87: Company Overview: Nora Lighting
- Table 88: Company Overview: Osram Sylvania
- Table 89: Company Overview: Philips Lighting
- Table 90: Company Overview: Nuvo Lighting
- Table 91: Company Overview: Cadet Energy
- Table 92: Company Overview: Carrier
- Table 93: Company Overview: Ecobee
- Table 94: Company Overview: Emerson Climate Technologies
- Table 95: Company Overview: HaiLin Energy Technology
- Table 96: Company Overview: Honeywell
- Table 97: Company Overview: Insteon
- Table 98: Company Overview: Lennox International
- Table 99: Company Overview: Nest
- Table 100: Company Overview: Venstar
- Table 101: Company Overview: Aclara Technologies
- Table 102: Company Overview: Alarm.com
- Table 103: Company Overview: Centrica
- Table 104: Company Overview: Belkin International
- Table 105: Company Overview: Blue Line Innovations
- Table 106: Company Overview: Energate
- Table 107: Company Overview: Oracle Utilities / Opower
- Table 108: Company Overview: Savant Systems
- Table 109: Company Overview: Trilliant

List Of Figures

LIST OF FIGURES

Summary Figure: Global Market for Residential Energy-efficiency Technologies, by Category, 2016-2022

Figure 1: Residential Mini-split Ductless Cooling System Schematic

Figure 2: Residential Tankless Water Heater

Figure 3: Residential Heat Pump Water Heater Schematic

Figure 4: LED Lights

Figure 5: Energy-efficient Weather Barrier

Figure 6: Energy-efficient Insulation Applied to a Near-zero Net Energy Consumption Residence in Alabama

Figure 7: Low-emissivity Window Diagram

Figure 8: Window Film

Figure 9: Residential Window Shades Outfitted with Solar Arrays

Figure 10: Energy-efficient Thermostat

Figure 11: Global Market for Energy-efficient HVAC, by Region, 2016-2022

Figure 12: Global Market for Energy-efficient HVAC, by Region, 2016-2022

Figure 13: North American Market for Energy-efficient HVAC, by Country, 2016-2022

Figure 14: European Market for Energy-efficient HVAC, by Country, 2016-2022

Figure 15: Asian Market for Energy-efficient HVAC, by Country, 2016-2022

Figure 16: Global Market for Efficient Tankless Water Heaters, by Region, 2016-2022

Figure 17: Global Market for Efficient Tankless Water Heaters, by Region, 2016-2022

Figure 18: North American Market for Efficient Tankless Water Heaters, by Country, 2016-2022

Figure 19: European Market for Efficient Tankless Water Heaters, by Country, 2016-2022

Figure 20: Asian Market for Efficient Tankless Water Heaters, by Country, 2016-2022

Figure 21: Global Market for Heat Pump Water Heaters, by Region, 2016-2022

Figure 22: Global Market for Heat Pump Water Heaters, by Region, 2016-2022

Figure 23: North American Market for Heat Pump Water Heaters, by Country, 2016-2022

Figure 24: European Market for Heat Pump Water Heaters, by Country, 2016-2022

Figure 25: Asian Market for Heat Pump Water Heaters, by Country, 2016-2022

Figure 26: Global Market for Energy-efficient Heating and Cooling, by Region, 2016-2022

Figure 27: Global Market for Energy-efficient Heating and Cooling, by Technology, 2016-2022

Figure 28: Global Market for LED Lighting, by Region, 2016-2022

Figure 29: Global Market for LED Lighting, by Region, 2016-2022

Figure 30: North American Market for LED Lighting, by Country, 2016-2022

Figure 31: European Market for LED Lighting, by Country, 2016-2022

Figure 32: Asian Market for LED Lighting, by Country, 2016-2022

Figure 33: Global Market for Weather Barriers and Efficient Insulation, by Region, 2016-2022

Figure 34: Global Market for Weather Barriers and Efficient Insulation, by Region, 2016-2022

Figure 35: North American Market for Weather Barriers and Efficient Insulation, by Country, 2016-2022

Figure 36: European Market for Weather Barriers and Efficient Insulation, by Country, 2016-2022

Figure 37: Asian Market for Weather Barriers and Efficient Insulation, by Country, 2016-2022

Figure 38: Global Market for Advanced Windows and Window Coverings, by Region, 2016-2022

Figure 39: Global Market for Advanced Windows and Window Coverings, by Region, 2016-2022

Figure 40: North American Market for Advanced Windows and Window Coverings, by Country, 2016-2022

Figure 41: European Market for Advanced Windows and Window Coverings, by Country, 2016-2022

Figure 42: Asian Market for Advanced Windows and Window Coverings, by Country, 2016-2022

Figure 43: Global Market for Energy-efficient Residential Building Envelope Technologies, by Region, 2016-2022

Figure 44: Global Market for Energy-efficient Residential Building Envelope Technologies, by Technology, 2016-2022

Figure 45: Global Market for Energy-efficient Thermostats, by Region, 2016-2022

Figure 46: Global Market for Energy-efficient Thermostats, by Region, 2016-2022

Figure 47: North American Market for Energy-efficient Thermostats, by Country, 2016-2022

Figure 48: European Market for Energy-efficient Thermostats, by Country, 2016-2022

Figure 49: Asian Market for Energy-efficient Thermostats, by Country, 2016-2022

Figure 50: Global Market for Energy-efficient Smart Home Automation, by Region, 2016-2022

Figure 51: Global Market for Energy-efficient Smart Home Automation, by Region, 2016-2022

Figure 52: North American Market for Energy-efficient Smart Home Automation, by Country, 2016-2022

Figure 53: European Market for Energy-efficient Smart Home Automation, by Country, 2016-2022

Figure 54: Asian Market for Energy-efficient Smart Home Automation, by Country, 2016-2022

Figure 55: Global Market for Energy-efficient Controls Market, by Region, 2016-2022

Figure 56: Global Market for Energy-efficient Controls Market, by Technology, 2016-2022

Figure 57: U.S. Market Share of Residential Home ENERGY STAR Certifications, 2015

Figure 58: Supply Chain for Efficient HVAC, Water Heaters, Weather Barriers, Insulation, Windows, and Window Attachments

Figure 59: Supply Chain for LED Lighting

Figure 60: Supply Chain for Energy-efficient Controls

I would like to order

Product name: Energy-efficient Technologies for Global Residential Markets

Product link: <https://marketpublishers.com/r/E167A448691EN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E167A448691EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970