

Hybrid System Market by System (Start-Stop, Regenerative Braking, EV Drive, eBoost), Component (Battery, DC/DC Converter, DC/AC Inverter, eMotor), Battery (Li-Ion, Lead Acid, NiMH), Vehicle (Mild Hybrid, HEV, PHEV, EV) - Global Forecast to 2022

<https://marketpublishers.com/r/HE49FD7034AEN.html>

Date: October 2017

Pages: 215

Price: US\$ 5,650.00 (Single User License)

ID: HE49FD7034AEN

Abstracts

“Requirement for fleet level emission limits in upcoming regulations is pushing the demand for hybrid and electric vehicles across the globe, which, in turn, fuels the demand for hybrid systems”

The hybrid system market is projected to grow at a CAGR of 10.79% from 2017 to 2022, to reach a market size of USD 40.99 billion by 2022. The increasing fuel prices and stringency in legislation governing emission standards are driving the demand for hybrid and electric vehicles across the globe. Owing to the high cost of battery-operated vehicles, OEMs are focused towards increasing hybridization features in ICE vehicles. Hence, the demand for micro- and mild-hybrid vehicles is increasing. In addition to decrease in harmful emissions, these vehicles improve fuel economy significantly. For instance, micro hybrid with start-stop function reduces fuel consumption by 2–5% compared with ICE vehicle without start-stop function, according to Natural Resource Canada (NRCan). On the other hand, vehicles with 48V architecture called as “mild hybrids” help in reducing fuel consumption by 8–15%. Full hybrid vehicles working on higher voltages reduce fuel consumption by 20–50%, and plug-in hybrid vehicles provide 40–80% reduction in fuel consumption. The market growth is restrained by the lack of standardization of the hybrid technologies, which needs to be worked upon by OEMs and Tier-1 companies.

“Mild hybrid segment is the fastest-growing vehicle segment in the hybrid system market”

Automotive manufacturers have started moving towards the manufacture of mild hybrid vehicles as the cost of conversion of conventional vehicles to full hybrid or plug-in hybrid vehicles is very high. Additionally, the cost of building battery charging infrastructure for plug-in hybrids and full electric vehicles is high too. Most of the benefits of hybrid or plug-in hybrid vehicles can be achieved by 48V mild hybrid vehicles at a fraction of the cost.

“Lithium-ion constitutes the largest battery type market globally”

Lithium-ion battery type is the most preferred battery type today in the electric cars market as these batteries have high power-to-weight ratio, superior high-temperature performance, high energy efficiency, and low self-discharge. Most components of lithium-ion batteries are recyclable. Because of their aforementioned benefits most of today's plug-in hybrid electric vehicles and full electric vehicles use lithium-ion batteries even though the cost of the battery is high. Thus, the market for lithium-ion battery type is the largest globally.

“Asia Pacific region constitutes the largest hybrid system market”

Asia Pacific is estimated to be the largest hybrid system market owing to the increasing electric vehicle sales in countries such as China and Japan. The vehicle sales in China and Japan is expected to increase from 0.49 million units and 1.09 million units in 2016 to 2.17 million units and 2.1 million units in 2022, respectively. The Chinese government's move towards working on a timetable to end the production and sales of gasoline as well as diesel cars and Japanese government's "Next-Generation Vehicle Strategy 2010", which targets the market share of electric vehicles sales is 50% of total vehicle sales by the end of year 2020, are expected to increase the market of electric vehicles in the Asia Pacific region. Thus, the market for hybrid systems is also slated to increase with the increasing electric vehicles in the region.

BREAKDOWN OF PRIMARIES

The study contains insights provided by various industry experts, ranging from hybrid system component suppliers to hybrid system suppliers and OEMs. The break-up of the primaries is as follows:

By Company Type: OEM - 33%, Tier 1 - 55%, and Tier 2 (Battery Manufacturers) - 17%

By Designation: D level - 17%, C level - 50%, and Others (Product Specialist)-33%

By Region: Europe -17%, Asia Pacific - 33%, and North America - 50%

The report provides detailed profiles of major companies in the hybrid system market, including Bosch (Germany), Denso (Japan), ZF (Germany), Valeo (France). Hitachi Automotive (Japan), Delphi (UK), GKN (UK), Schaeffler (US), Johnson Controls (US), Infineon (Germany), and Magna (Canada).

Research Coverage:

The report analyzes the hybrid system market across different verticals and regions. It aims at estimating the market size and future growth potential of the hybrid system market by region, component, system, by battery type, and by vehicle type.

Furthermore, the report also includes an in-depth competitive analysis of the key players in the market along with their company profiles, recent developments, and key market strategies.

Reasons to buy the Report:

The report will help the market leaders/new entrants in this market by providing them the closest approximations of the revenue numbers for the hybrid system market. It will help stakeholders to better understand the competitor landscape and gain more insights to better position their businesses and make suitable go-to-market strategies. The report also helps the stakeholders to understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 PACKAGE SIZE
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
- 2.2 SECONDARY DATA
 - 2.2.1 KEY SECONDARY SOURCES
 - 2.2.2 KEY DATA FROM SECONDARY SOURCES
- 2.3 PRIMARY DATA
 - 2.3.1 SAMPLING TECHNIQUES & DATA COLLECTION METHODS
 - 2.3.2 PRIMARY PARTICIPANTS
- 2.4 FACTOR ANALYSIS
 - 2.4.1 DEMAND-SIDE ANALYSIS
 - 2.4.1.1 Rise in the demand for hybrid system to reduce fuel consumption
 - 2.4.1.2 Stringent emission regulations driving sales of electric and hybrid vehicles
 - 2.4.1.3 Supporting government policies for electric and hybrid vehicles
 - 2.4.2 SUPPLY-SIDE ANALYSIS
 - 2.4.2.1 Opportunity for hybrid system component and battery pack suppliers
 - 2.4.2.2 Battery Cost
- 2.5 MARKET SIZE ESTIMATION
 - 2.5.1 BOTTOM-UP APPROACH
 - 2.5.2 DATA TRIANGULATION
 - 2.5.3 ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN THE HYBRID SYSTEM MARKET
- 4.2 HYBRID SYSTEM MARKET, BY REGION
- 4.3 HYBRID SYSTEM MARKET, BY SYSTEM TYPE
- 4.4 HYBRID SYSTEM MARKET, BY VEHICLE TYPE
- 4.5 MILD HYBRID SYSTEM MARKET, BY SYSTEM TYPE
- 4.6 HYBRID SYSTEM MARKET, BY COMPONENT
- 4.7 HYBRID SYSTEM MARKET, BY BATTERY TYPE
- 4.8 HYBRID SYSTEM SUPPLIER ANALYSIS, BY COMPONENT

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Rising demand for mild hybrid vehicles

5.2.1.1.1 Increased fuel efficiency with the adoption of mild hybrids

5.2.1.1.2 Rising government incentives for the adoption of mild hybrids

5.2.1.2 Increasing demand for higher voltage systems to increase hybridization

5.2.2 RESTRAINTS

5.2.2.1 Lack of standardization of hybrid technologies

5.2.3 OPPORTUNITIES

5.2.3.1 Growing electric vehicle infrastructure

5.2.3.1.1 Government policies and incentives for electric vehicle charging stations

5.2.3.1.2 Developing charging technologies and infrastructure for electric vehicles

5.2.3.2 Electrification and hybridization in the commercial vehicles

5.2.4 CHALLENGES

5.2.4.1 Cost reduction and high-energy density EV batteries

5.2.5 MACRO INDICATOR ANALYSIS

5.2.5.1 Introduction

5.2.5.1.1 Full electric vehicle sales as a percentage of total electric vehicle sales

5.2.5.1.2 GDP (USD billion)

5.2.5.1.3 GNP per capita, Atlas Method (USD)

5.2.5.1.4 GDP per capita PPP (USD)

5.2.6 MACRO INDICATORS INFLUENCING THE HYBRID SYSTEM MARKET FOR TOP 3 COUNTRIES

5.2.6.1 Japan

5.2.6.2 China

5.2.6.3 US

6 HYBRID SYSTEM MARKET, BY BATTERY TYPE AND REGION

6.1 INTRODUCTION

6.2 LEAD ACID BATTERY MARKET, BY REGION

6.3 LITHIUM ION BATTERY MARKET, BY REGION

6.4 NICKEL BASED BATTERY MARKET, BY REGION

7 MILD HYBRID SYSTEM MARKET, BY SYSTEM TYPE AND REGION

7.1 INTRODUCTION

7.2 START-STOP SYSTEM MARKET SIZE FOR MILD HYBRIDS, BY REGION

7.3 REGENERATIVE BRAKING SYSTEM MARKET SIZE FOR MILD HYBRIDS, BY REGION

7.4 E-BOOSTER MARKET SIZE FOR MILD HYBRIDS, BY REGION

8 HYBRID SYSTEM MARKET, BY COMPONENT & REGION

8.1 INTRODUCTION

8.2 12V BATTERY MARKET, BY REGION

8.3 HIGH VOLTAGE BATTERY MARKET, BY REGION

8.4 DC/AC INVERTER MARKET, BY REGION

8.5 DC/DC CONVERTER MARKET, BY REGION

8.6 DC/DC BOOST CONVERTER, BY REGION

8.7 E-MOTOR MARKET, BY REGION

8.8 AC/DC CHARGER MARKET, BY REGION

8.9 MOTOR CONTROLLER MARKET, BY REGION

9 HYBRID SYSTEM MARKET, BY REGION, VEHICLE TYPE & SYSTEM TYPE

9.1 INTRODUCTION

9.1.1 E-BOOSTER SYSTEM MARKET, BY REGION

9.1.2 EV DRIVE SYSTEM MARKET, BY REGION

9.1.3 PLUG-IN CHARGING SYSTEM MARKET, BY REGION

9.1.4 REGENERATIVE BRAKING SYSTEM, BY REGION

9.1.5 SAILING SYSTEM MARKET, BY REGION

9.1.6 START-STOP SYSTEM MARKET, BY REGION

9.2 ASIA PACIFIC: HYBRID SYSTEM MARKET, BY COUNTRY, VEHICLE TYPE & SYSTEM TYPE

9.2.1 ASIA PACIFIC: HYBRID SYSTEM MARKET, BY VEHICLE TYPE

9.2.2 ASIA PACIFIC: HYBRID SYSTEM MARKET, BY SYSTEM TYPE

9.2.2.1 Asia Pacific: E-booster market, by country and vehicle type

9.2.2.2 Asia Pacific: EV drive system market, by country and vehicle type

9.2.2.3 Asia Pacific: Plug-in charging system market, by country and vehicle type

9.2.2.4 Asia Pacific: Regenerative braking system market, by country and vehicle type

9.2.2.5 Asia Pacific: Sailing system market, by country and vehicle type

9.2.2.6 Asia Pacific: Start-stop system market, by country and vehicle type

9.3 EUROPE: HYBRID SYSTEM MARKET, BY COUNTRY, VEHICLE TYPE & SYSTEM TYPE

9.3.1.1 Europe: E-booster system market, by country and vehicle type

9.3.1.2 Europe: EV drive system market, by country and vehicle type

9.3.1.3 Europe: Plug in-charging system market, by country and vehicle type

9.3.1.4 Europe: Regenerative braking system market, by country and vehicle type

9.3.1.5 Europe: Sailing system market, by country and vehicle type

9.3.1.6 Europe: Start-stop system market, by country and vehicle type

9.4 NORTH AMERICA: HYBRID SYSTEM MARKET, BY COUNTRY, VEHICLE TYPE & SYSTEM TYPE

9.4.1 NORTH AMERICA: HYBRID SYSTEM MARKET, BY VEHICLE TYPE

9.4.2 NORTH AMERICA HYBRID SYSTEM MARKET, BY SYSTEM TYPE

9.4.2.1 North America: E-booster system market, by country and vehicle type

9.4.2.2 North America: EV drive system market, by country and vehicle type

9.4.2.3 North America: Plug-in charging system market, by country and vehicle type

9.4.2.4 North America: Regenerative braking system market, by country and vehicle type

9.4.2.5 North America: Sailing system market, by country and vehicle type

9.4.2.6 North America: Start-stop system market, by country and vehicle type

9.5 REST OF THE WORLD: HYBRID SYSTEM MARKET, BY COUNTRY, VEHICLE TYPE & SYSTEM TYPE

9.5.1 ROW: HYBRID SYSTEM MARKET, BY VEHICLE TYPE

9.5.1.1 RoW: E-booster system market, by country and vehicle type

9.5.1.2 RoW: EV drive system market, by country and vehicle type

9.5.1.3 RoW: Plug-in charging system market, by country and vehicle type

9.5.1.4 RoW: Regenerative braking system market, by country and vehicle type

9.5.1.5 RoW: Sailing system market, by country and vehicle type

9.5.1.6 RoW: Start-stop system market, by country and vehicle type

10 COMPETITIVE LANDSCAPE

10.1 HYBRID SYSTEM MARKET: COMPANY RANKING ANALYSIS

11 COMPANY PROFILES

(Business overview, Services offered, Strength of service portfolio, Business strategy excellence, Recent developments)*

11.1 BOSCH

11.2 CONTINENTAL

11.3 DENSO

11.4 DELPHI

11.5 JOHNSON CONTROLS

11.6 ZF

11.7 VALEO

11.8 HITACHI AUTOMOTIVE

11.9 MAGNA

11.10 INFINEON

11.11 SCHAEFFLER

11.12 GKN

*Details on Business overview, Services offered, Strength of service portfolio, Business strategy excellence, Recent developments might not be captured in case of unlisted companies.

12 APPENDIX

12.1 INSIGHTS OF INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

12.4 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE

12.5 AVAILABLE CUSTOMIZATIONS

12.5.1 HYBRID SYSTEM MARKET, BY BATTERY TYPE & COUNTRY, 2015-2025

12.5.1.1 Lithium-ion

12.5.1.2 Nickel based

12.5.1.3 Lead acid

12.5.1.4 Solid state battery

12.5.2 HYBRID SYSTEM MARKET, BY VOLTAGE ARCHITECTURE, SYSTEM TYPE & REGION

12.5.2.1 48V (Mild Hybrid)

12.5.2.1.1 Start-stop system

12.5.2.1.2 Regenerative braking

- 12.5.2.1.3 E-Booster
- 12.5.2.2 60V-299V
 - 12.5.2.2.1 Start stop system
 - 12.5.2.2.2 Regenerative braking
 - 12.5.2.2.3 E-Booster
 - 12.5.2.2.4 Sailing/Coating
- 12.5.2.3 300V-349V
 - 12.5.2.3.1 Start-stop system
 - 12.5.2.3.2 Regenerative braking
 - 12.5.2.3.3 E-Booster
 - 12.5.2.3.4 Sailing/Coating
 - 12.5.2.3.5 Plug-in charging
- 12.5.2.4 >349V
 - 12.5.2.4.1 Start-stop system
 - 12.5.2.4.2 Regenerative braking
 - 12.5.2.4.3 E-Booster
 - 12.5.2.4.4 Sailing/Coating
 - 12.5.2.4.5 Plug-in charging
- 12.5.3 MILD HYBRID SYSTEM MARKET, BY SYSTEM TYPE & COUNTRY
 - 12.5.3.1 Start-stop system
 - 12.5.3.2 Regenerative braking system
 - 12.5.3.3 E-Booster system
- 12.6 RELATED REPORTS
- 12.7 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

Table 1 CURRENCY EXCHANGE RATES (W.R.T. USD)

Table 2 IMPACT OF DEGREE OF HYBRIDIZATION ON FUEL CONSUMPTION

Table 3 COUNTRY-WISE EMISSION REGULATIONS (2010-2020), ENACTED & PROPOSED

Table 4 TAXATION SCHEMES FOR ELECTRIC VEHICLES, 2014

Table 5 DC-DC CONVERTER: KEY SUPPLIERS

Table 6 TRACTION MOTOR: KEY SUPPLIERS

Table 7 BATTERY: KEY SUPPLIERS

Table 8 INVERTOR: KEY SUPPLIERS

Table 9 ON-BOARD CHARGER: KEY SUPPLIERS

Table 10 COMPONENTS AND OUTLAY COVERED UNDER THE FAME SCHEME (MILLION USD)

Table 11 RANGE OF DEMAND INCENTIVES FOR MILD HYBRID UNDER THE FAME SCHEME (USD)

Table 12 HIGH VOLTAGE SYSTEMS IN HYBRID AND ELECTRIC VEHICLES

Table 13 VOLTAGE LEVELS REQUIRED TO POWER VARIOUS SYSTEMS IN PASSENGER CARS

Table 14 ELECTRIC CHARGING POINTS IN MAJOR EUROPEAN COUNTRIES, 2011 & 2020

Table 15 PUBLICLY ACCESSIBLE FAST CHARGER STOCK, BY COUNTRY, 2014–2016 (NUMBER OF UNITS)

Table 16 POTENTIAL CO2 SAVING FOR HYBRID BUS & TRUCK CONFIGURATION

Table 17 TECHNICAL PERFORMANCE OF DIFFERENT EV BATTERIES

Table 18 JAPAN: RISING DEBT-GDP RATIO TO BE THE MOST CRUCIAL INDICATOR GIVEN ITS EXCESSIVELY WEAK PERFORMANCE IN THE RECENT PAST

Table 19 CHINA: DOMESTIC DEMAND EXPECTED TO PLAY A CRUCIAL ROLE OWING TO A HOST OF CHINESE DOMESTIC CARMAKERS

Table 20 U.S.: RISING GNI PER CAPITA EXPECTED TO DRIVE THE SALES OF LUXURY VEHICLES DURING THE FORECAST PERIOD

Table 21 HYBRID SYSTEM MARKET SIZE, BY BATTERY TYPE, 2015-2022 ('000 UNITS)

Table 22 HYBRID SYSTEM MARKET SIZE, BY BATTERY TYPE, 2015-2022 (USD MILLION)

Table 23 LEAD ACID BATTERY MARKET SIZE, BY REGION, 2015-2022 ('000

UNITS)

Table 24 LEAD ACID BATTERY MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)

Table 25 LITHIUM ION BATTERY MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)

Table 26 LITHIUM ION BATTERY MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)

Table 27 NICKEL BASED BATTERY MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)

Table 28 NICKEL BASED BATTERY MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)

Table 29 MILD HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 ('000 UNITS)

Table 30 MILD HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 (USD MILLION)

Table 31 START-STOP SYSTEM MARKET SIZE FOR MILD HYBRIDS, BY REGION, 2015-2022 ('000 UNITS)

Table 32 START-STOP SYSTEM MARKET SIZE FOR MILD HYBRIDS, BY REGION, 2015-2022 (USD MILLION)

Table 33 REGENERATIVE BRAKING SYSTEM MARKET SIZE FOR MILD HYBRIDS, BY REGION, 2015-2022 ('000 UNITS)

Table 34 REGENERATIVE BRAKING SYSTEM MARKET SIZE FOR MILD HYBRIDS, BY REGION, 2015-2022 (USD MILLION)

Table 35 E-BOOSTER MARKET SIZE FOR MILD HYBRIDS, BY REGION, 2015-2022 ('000 UNITS)

Table 36 E-BOOSTER MARKET SIZE FOR MILD HYBRIDS, BY REGION, 2015-2022 (USD MILLION)

Table 37 HYBRID SYSTEM MARKET SIZE, BY COMPONENT, 2015-2022 ('000 UNITS)

Table 38 HYBRID SYSTEM MARKET SIZE, BY COMPONENT, 2015-2022 (USD MILLION)

Table 39 12V BATTERY MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)

Table 40 12V BATTERY MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)

Table 41 VARIOUS BATTERY TECHNOLOGIES USED IN VEHICLES

Table 42 HIGH VOLTAGE BATTERY MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)

Table 43 HIGH VOLTAGE BATTERY MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)

Table 44 DC/AC INVERTER MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)

- Table 45 DC/AC INVERTER MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 46 DC/DC CONVERTER MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 47 DC/DC CONVERTER MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 48 DC/DC BOOST CONVERTER MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 49 DC/DC BOOST CONVERTER MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 50 E-MOTOR MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 51 E-MOTOR MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 52 AC/DC CHARGER MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 53 AC/DC CHARGER MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 54 MOTOR CONTROLLER MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 55 MOTOR CONTROLLER MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 56 HYBRID SYSTEM MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 57 HYBRID SYSTEM MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 58 HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 ('000 UNITS)
- Table 59 HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 (USD MILLION)
- Table 60 HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 ('000 UNITS)
- Table 61 HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 (USD MILLION)
- Table 62 E-BOOSTER SYSTEM MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 63 E-BOOSTER SYSTEM MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 64 EV DRIVE MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 65 EV DRIVE MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 66 PLUG-IN CHARGING SYSTEM MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 67 PLUG-IN CHARGING SYSTEM MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)
- Table 68 REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)
- Table 69 REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY REGION,

2015-2022 (USD MILLION)

Table 70 SAILING SYSTEM MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)

Table 71 SAILING SYSTEM MARKET SIZE, BY REGION, 2015-2022 (USD MILLION)

Table 72 START-STOP SYSTEM MARKET SIZE, BY REGION, 2015-2022 ('000 UNITS)

Table 73 START-STOP SYSTEM MARKET SIZE, BY REGION, 2015-2022 (USD THOUSAND)

Table 74 ASIA PACIFIC: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 ('000 UNITS)

Table 75 ASIA PACIFIC: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 (USD MILLION)

Table 76 ASIA PACIFIC: HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 ('000 UNITS)

Table 77 ASIA PACIFIC: HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 (USD MILLION)

Table 78 ASIA PACIFIC: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 79 ASIA PACIFIC: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 80 ASIA PACIFIC: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 81 ASIA PACIFIC: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 82 ASIA PACIFIC: PLUG-IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 83 ASIA PACIFIC: PLUG-IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 84 ASIA PACIFIC: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 85 ASIA PACIFIC: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 86 ASIA PACIFIC: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 87 ASIA PACIFIC: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 88 ASIA PACIFIC: START STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 89 ASIA PACIFIC: START-STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 90 EUROPE: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 ('000 UNITS)

Table 91 EUROPE: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 (USD MILLION)

Table 92 EUROPE: HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 ('000 UNITS)

Table 93 EUROPE: HYBRID SYSTEM MARKET, BY SYSTEM TYPE, 2015-2022 (USD MILLION)

Table 94 EUROPE: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 95 EUROPE: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 96 EUROPE: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 97 EUROPE: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 98 EUROPE: PLUG IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 99 EUROPE: PLUG-IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 100 EUROPE: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 101 EUROPE: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 102 EUROPE: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 103 EUROPE: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 104 EUROPE: START STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 105 EUROPE: START-STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 106 NORTH AMERICA: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 ('000 UNITS)

Table 107 NORTH AMERICA: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 (USD MILLION)

Table 108 NORTH AMERICA: HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, 2015-2022 ('000 UNITS)

Table 109 NORTH AMERICA: HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE,

2015-2022 (USD MILLION)

Table 110 NORTH AMERICA: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 111 NORTH AMERICA: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 112 NORTH AMERICA: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 113 NORTH AMERICA: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 114 NORTH AMERICA: PLUG IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 115 NORTH AMERICA: PLUG IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 116 NORTH AMERICA: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 117 NORTH AMERICA: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 118 NORTH AMERICA: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 119 NORTH AMERICA: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 120 NORTH AMERICA: START STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 121 NORTH AMERICA: START STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 122 ROW: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 ('000 UNITS)

Table 123 ROW: HYBRID SYSTEM MARKET SIZE, BY VEHICLE TYPE, 2015-2022 (USD MILLION)

Table 124 ROW: HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, VOLUME ('000 UNITS)

Table 125 ROW: HYBRID SYSTEM MARKET SIZE, BY SYSTEM TYPE, VALUE (USD MILLION)

Table 126 ROW: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 127 ROW: E-BOOSTER SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 128 ROW: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 129 ROW: EV DRIVE SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 130 ROW: PLUG IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 131 ROW: PLUG-IN CHARGING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 132 ROW: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 133 ROW: REGENERATIVE BRAKING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 134 ROW: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 135 ROW: SAILING SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 136 ROW: START-STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (UNITS)

Table 137 ROW: START-STOP SYSTEM MARKET SIZE, BY COUNTRY AND VEHICLE TYPE, 2015-2022 (USD THOUSAND)

Table 138 HYBRID SYSTEM MARKET: COMPANY RANKING, 2016

List Of Figures

LIST OF FIGURES

Figure 1 HYBRID SYSTEM MARKET: RESEARCH DESIGN

Figure 2 RESEARCH DESIGN MODEL

Figure 3 BREAKDOWN OF PRIMARY INTERVIEWS

Figure 4 SUPPLY CHAIN CONTRIBUTORS

Figure 5 LITHIUM ION BATTERY COST REDUCTION

Figure 6 HYBRID SYSTEM MARKET: BOTTOM-UP APPROACH

Figure 7 DATA TRIANGULATION

Figure 8 HYBRID SYSTEM MARKET, BY REGION, 2017 VS 2022 (USD MILLION)

Figure 9 HYBRID SYSTEM MARKET, BY SYSTEM TYPE, 2017 VS 2022 (USD MILLION)

Figure 10 HYBRID SYSTEM MARKET, BY COUNTRY, 2017-2022 (USD MILLION)

Figure 11 HYBRID SYSTEM MARKET, BY COMPONENT, 2017 VS 2022 (USD MILLION)

Figure 12 HYBRID SYSTEM MARKET, BY BATTERY TYPE, 2017 VS 2022 (USD MILLION)

Figure 13 MILD HYBRID SYSTEM MARKET, BY SYSTEM TYPE, 2017 VS 2022 (USD MILLION)

Figure 14 INCREASING HYBRIDIZATION & DEMAND FOR HIGHER FUEL ECONOMY TO DRIVE THE HYBRID SYSTEM MARKET DURING THE FORECAST PERIOD

Figure 15 ASIA PACIFIC ESTIMATED TO LEAD THE HYBRID SYSTEM MARKET IN 2017

Figure 16 THE EV DRIVE SYSTEM SEGMENT IS ESTIMATED TO LEAD THE HYBRID SYSTEM MARKET

Figure 17 THE HEV SEGMENT IS ESTIMATED TO LEAD THE HYBRID SYSTEM MARKET

Figure 18 THE REGENERATIVE BRAKING SYSTEM SEGMENT IS ESTIMATED TO LEAD THE MILD HYBRID SYSTEM MARKET

Figure 19 THE HIGH VOLTAGE BATTERY SEGMENT IS ESTIMATED TO LEAD THE HYBRID SYSTEM MARKET

Figure 20 THE LITHIUM ION BATTERY SEGMENT ESTIMATED TO LEAD THE HYBRID SYSTEM BATTERY MARKET

Figure 21 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN THE HYBRID SYSTEM MARKET

Figure 22 VEHICLE ELECTRIFICATION VS. FUEL EFFICIENCY

Figure 23 PROJECTED COST OF LITHIUM-ION BATTERIES, 2015-2030 (USD PER KWH)

Figure 24 LI-ION BATTERY WITH IMPROVED ENERGY DENSITY

Figure 25 LITHIUM ION SEGMENT IS ESTIMATED TO BE THE LARGEST IN THE HYBRID SYSTEM MARKET DURING THE FORECAST PERIOD

Figure 26 REGENERATIVE BRAKING SYSTEM MARKET SIZE IS ESTIMATED TO BE THE LARGEST IN THE MILD HYBRID SYSTEM MARKET DURING THE FORECAST PERIOD

Figure 27 HIGH VOLTAGE BATTERY ESTIMATED TO BE THE LARGEST COMPONENT SEGMENT OF THE HYBRID SYSTEM MARKET DURING THE FORECAST PERIOD

Figure 28 NORTH AMERICA TO BE THE FASTEST-GROWING MARKET FOR THE HYBRID SYSTEM, 2017–2022 (USD MILLION)

Figure 29 ASIA PACIFIC: HYBRID SYSTEM MARKET SNAPSHOT

Figure 30 EUROPE: HYBRID SYSTEM MARKET, BY COUNTRY, 2017 VS 2022 (USD MILLION)

Figure 31 NORTH AMERICA: HYBRID SYSTEM MARKET SNAPSHOT

Figure 32 ROW: HYBRID SYSTEM MARKET, BY COUNTRY, 2017 VS 2022 (USD MILLION)

Figure 33 BOSCH: COMPANY SNAPSHOT

Figure 34 CONTINENTAL: COMPANY SNAPSHOT

Figure 35 DENSO: COMPANY SNAPSHOT

Figure 36 DELPHI: COMPANY SNAPSHOT

Figure 37 JOHNSON CONTROLS: COMPANY SNAPSHOT

Figure 38 ZF: COMPANY SNAPSHOT

Figure 39 VALEO: COMPANY SNAPSHOT

Figure 40 HITACHI AUTOMOTIVE: COMPANY SNAPSHOT

Figure 41 MAGNA: COMPANY SNAPSHOT

Figure 42 INFINEON: COMPANY SNAPSHOT

Figure 43 SCHAEFFLER: COMPANY SNAPSHOT

Figure 44 GKN: COMPANY SNAPSHOT

I would like to order

Product name: Hybrid System Market by System (Start-Stop, Regenerative Braking, EV Drive, eBoost), Component (Battery, DC/DC Converter, DC/AC Inverter, eMotor), Battery (Li-Ion, Lead Acid, NiMH), Vehicle (Mild Hybrid, HEV, PHEV, EV) - Global Forecast to 2022

Product link: <https://marketpublishers.com/r/HE49FD7034AEN.html>

Price: US\$ 5,650.00 (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/HE49FD7034AEN.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