

# The Worldwide Battery Market 2012 2025 Avicenne

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### The Worldwide Battery Market 2012

#### **Technology & Market Drivers for Stationary and Automotive ...**

Worldwide Li-ion battery market by volume Worldwide Li-ion battery market by value Source: Avicenne Compilations, March 2011 15\_10\_12 Batteries 2012 V5pptx 6 5%

#### **The Rechargeable Battery Market and Main Trends 2011-2020**

Battery Market AVICENNE ENERGY Christophe PILLOT July 4 th, 2018 London Christophe PILLOT + 33 1 47 78 46 00 cpillot@avicennecom Presentation Outline • The rechargeable battery market in 2017 • The Li-ion battery value chain • Li-ion Battery market Forecasts

#### **The Rechargeable Battery Market and Main Trends 2011-2020**

Battery Market Development for Consumer Electronics, Automotive, and Industrial: Materials Requirements and Trends THE WORLDWIDE BATTERY MARKET 1990-2015 0 10 20 30 40 50 60 70 0 0 5 0 3 4 5 \$ 40 Others (Flow battery, NAS, ...) Li-ion NiMH NiCD Lead Acid 60 BILLION US\$ in 2014 - Pack level 1 5% AVERAGE GROWTH PER YEAR (1990-2014) 6 0 10 20 30

#### **The Rechargeable Battery Market and Main Trends 2011-2020**

The Rechargeable Battery Market and Main Trends 2016 - 2026 Novi, Michigan, USA September 2017 THE WORLDWIDE BATTERY MARKET 1990-2016 0 20 000 40 000 60 000 80 000 100 000 120 000 1990 1995 2000 2005 2010 2015 2016 MWh Others (Flow battery, NAS, ...) Li-ion NiMH NiCD Lithium Ion Battery: Highest growth & major part of

#### **The Rechargeable Battery Market and Main Trends 2011-2020**

rechargeable battery market \$ THE WORLDWIDE BATTERY MARKET 1990-2015 0 10 20 30 40 50 60 70 0 0 5 0 3 4 5 \$ Others (Flow battery, NAS, ...) Li-ion NiMH NiCD Lead Acid 60 ...

## **The Rechargeable Battery Market and Main Trends 2011-2020**

The worldwide Battery market and materials trends 2014-2025 th5 Israeli Power Sources Conference May 21st, 2015 Herzelia, Israel THE WORLDWIDE BATTERY MARKET 1990-2015 0 10 20 30 40 50 60 70 0 0 5 0 3 4 5 \$ 40 Others (Flow battery, NAS, ...) Li-ion NiMH NiCD Lead Acid 60 BILLION US\$ in 2014 - Pack level 1 5% AVERAGE GROWTH PER YEAR (1990-2014)

### **The lithium-ion battery end-of-life market A baseline study**

The lithium-ion battery end-of-life market - A baseline study For the Global Battery Alliance Author: Hans Eric Melin, Circular Energy Storage The market for lithium-ion batteries is growing rapidly Since 2010 the annual deployed capacity of lithium-ion batteries has increased with 500 per cent From having been used mainly in

### **Electrode Materials for Rechargeable Sodium Ion Batteries ...**

Lithium (Li)-ion batteries (LIB) have governed the current worldwide recharge-able battery market due to their outstanding energy and power capability In particular, the LIB's role in enabling electric vehicles (EVs) has been high-lighted to replace the current oil-driven vehicles in order to reduce the usage

### **Lithium-ion battery costs & market - Bloomberg Finance L.P.**

Without the supply chain in place, the battery market will not be able to meet future demand The supply chain for battery components (cathodes, anodes, electrolyte and separators) is a complex business There's a looming shortage in production capacity for components, particularly the separator

### **Global Regulatory Requirements for Medical Devices**

Competent authorities worldwide have begun to realize the problem and collaborate to harmonize the regulations The Global Harmonization Task Force (GHTF) is a group of representatives from regulatory authorities in USA, European Union, Japan, Australia and Canada that work to harmonize the regulations for medical devices and improve the safety,

### **New market. New entrants. New challenges. Battery Electric ...**

Growth of the electric vehicle market The market for electric vehicles is reaching a tipping point The last two years have been noteworthy ones for the automotive industry Indeed, 2017 was a landmark year for electric vehicles (EVs) as global sales of battery electric vehicles (BEV) and plug-in hybrid vehicles

### **generation efficiency storage Grids Wholesale Conventional ...**

Recent developments and future trends within the battery energy storage market During the last decade the trends in the overall worldwide rechargeable battery market (2005: 300 GWh, 2016: 460 GWh) have been mostly driven by the electric vehicles sector [Avicenne] The mature lead-acid battery technology (2000: 270 GWh, 2016:

### **Fact Book Fiscal Year 2012 - Continental USA**

Market Share for Passenger and Light Truck Tires 2012 62 : 112 Market Share for Truck Tires 2012 : 62 113 : Worldwide Passenger and Light Truck Tire Production 2012 63 : 114 European Passenger and Light Truck Tire Production 2012 : 63 115 : Worldwide Truck Tire Production 2012 64 : 116 Cost of Labor at Continental Manufacturing

### **Electric Vehicle Market Attractiveness - Accenture**

far the largest EV market worldwide The positive assessment of market growth is also due to political measures The Chinese government, for

instance, offers credits of US\$8,500 at purchase Furthermore, the charging infrastructure is more mature than in other industrialized markets, especially in densely populated regions

### **Lithium Use in Batteries - USGS**

Expect to use US-produced battery Currently testing concept cars Lithium-ion battery pack Capacity of 23 kWh and a range of up to 75 miles Charging the batteries will take between 6 and 8 hours, using a household 230-V electricity supply Concept car exists Powered by lithium-ion battery pack, which will be manufactured in the United States

### **Supercharged: Challenges and opportunities in global**

Supercharged: Challenges and opportunities in global battery storage markets 2 Introduction Depending on which analysis one reads, the global market for energy storage is poised to grow rapidly, but few can agree on how much According to one widely publicized projection, the storage market could reach more than \$26 billion in annual sales by

### **The Global E-bike Market - International Nickel Study Group**

The Global E-bike Market Introduction This insight, issued jointly as an ILZSG and INSG report, provides members with information on the global market for electric bicycles or e-bikes which utilize lead and nickel in their batteries China is the largest market for e-bikes but the market ...

### **Battery Storage in the United States: An Update on Market ...**

2017 in PJM's market rules have reduced the number of battery installations in the region Most existing large-scale battery storage power capacity in PJM is owned by independent power producers (IPPs) providing power-oriented frequency regulation services

### **Batteries and Energy Storage**

(2012) Li Ion (2015) Target (2020) W Installed Cost 0 100 200 300 400 500 600 700 800 Lead-Acid (2012) Worldwide Vehicle Battery Production Capacity (packs/yr) t Regulatory Rulings Legislative Action •Technical challenges market -Utilities are exploring options at the