WIRELESS CHARGING MARKET (2012-2017) – GLOBAL FORECAST AND ANALYSIS

BY TECHNOLOGY (INDUCTIVE, MAGNETIC RESONANCE, RADIO FREQUENCY (RF), MICROWAVE, OPTICAL BEAM), PRODUCTS (PADS AND RECEIVERS FOR SMARTPHONES), APPLICATIONS (SMARTPHONES, INDUSTRIAL, MEDICAL, MILITARY, ELECTRIC VEHICLES)

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Report Description

Key Take-Aways

- Impact analysis of the wireless charging market dynamics, which describe factors currently driving and restraining the growth of the market as well as their impact in the long run
- Opportunities and innovation driven wireless charging market highlights, R&D trends, and the major regions and countries involved in such developments
- Analysis of the related technologies used for wireless chargers, along with identification of technologies with high growth potential
- Identification of the different application areas of wireless chargers along with analysis and forecasts of segments with high growth potential
- Geographical analysis of the wireless charging technology market
- Key growth strategies of companies in wireless charging market provided through an analysis of the competitive landscape

Report Overview

Eliminating the need for cords, cables, and wires is the aim of wireless charging. The increase in the number of consumer electronics and other electronic devices has resulted in an increase in the amount of wires and cables. Wirelessly charging these devices would result in a more convenient option where the user will only have to place the electronic device on a table with chargers implanted and the device will be charged.

This report is segmented on the basis of the products in the wireless charging market for smartphones. It also provides a brief description of the various technologies used for wireless charging. The report showcases a trend in the various regions across the globe with a prime focus on Japan.

The global market for wireless charging is expected to reach $7.161 billion in 2017 from $456.86 million in 2011 at an estimated CAGR of 57.46% from 2012 to 2017. The players in the wireless charging market include Powermat Technologies (U.S.), Energizer (U.S.), Verizon (U.S.), and many more.

Markets Covered

Wireless Charging Market:

- **By Products**
  - Wireless Charging Pads
  - Receivers for Wireless Charging Pads
- **By Application**
  - Consumer Electronics
    - a) Smart phones, iPad, MP3 players and Digital Cameras
  - Industrial
  - Medical
  - Military
  - Electric Vehicles
- **By Geography**
  - North America
  - Europe
  - Japan
  - APAC (Excluding Japan)
  - ROW

Report Description

Stakeholders

- Mobile phone manufacturers
- Integrated Circuit (IC) manufacturers
- Wireless Charging pad manufacturers
- Charging sleeve manufacturers
- Electric vehicle manufacturers
- Battery manufacturers for electric vehicles
- Wireless solutions providers for electric vehicles
- Medical implants providers
- Defense procurement organizations

Executive Summary

In today's on-the-go era, the need to charge the consumer devices is increasing at a fast pace. Increase in the usage of mobile applications coupled with the usage of GPRS and other wireless data networks have dramatically reduced the battery life of such devices. This results in the need to charge these devices at regular intervals. The battery of a smartphone or any other device cannot be increased in size since that makes the device too bulky to handle and does not serve the purpose of having sleeker and slimmer smartphone models. In order to be able to charge a phone as and when required, one would have to carry a wired charger everywhere. In order to do away with this, the concept of wireless charging came into the picture, which enables the devices to be charged wirelessly.

The user experience is shifting to the next level where the devices will be charged only by placing them onto a charging pad or by just keeping it on a desk. The idea behind charging these devices wirelessly is the inductive technology that uses the two magnetic coils; the sender and the receiver placed in close contact with each other and the device is charged without the need of any cords or wires. There are other technologies such as magnetic resonance, radio frequency, microwave, and optical beam technology that can be used for charging the devices wirelessly.

Most of the commercial products, as of today, for wireless charging, are to charge smartphones and consumer electronics wirelessly using a charging pad and a receiver that needs to be stuck on to the phone. The companies, universities, and research institutes are conducting extensive R&D on the same and trying to embed the receiver coils in the phone, which will eliminate the need to use the sleeve as well. Standards and interoperability are the major concerns in the market as of today. Since the market is at a nascent stage; there are no set standards for the same.

The Wireless Power Consortium established a standard for interoperability named the Qi standard, which enables charging pads and devices with Qi certification to charge together. There are other emerging standards as well for charging the devices wirelessly. However, in order to achieve large scale adoption, interoperability will have to be dealt with. Apart from consumer electronics, the applications of wireless charging include industrial, military, and the medical applications. Future applications include wireless charging of electric vehicles. Researchers at Stanford University are working on embedding wireless charging systems on highways, so as to facilitate charging of electric vehicles on the go. Another very futuristic application of wireless charging being researched at Kyoto University (Japan) is to develop a Space Solar Power Satellite/Station (SPS), i.e. harnessing solar power wirelessly from space.

The geographical presence of wireless charging is very limited as of today across the globe. There are emerging markets across North America, Europe, and other parts of the world. Japan is the only country as of 2011 with the maximum usage of wireless charging among the users. The wireless charging technology will take five to seven years to fully commercialize.

Wireless Charging Market Revenue, By Geography, 2012 – 2017 ($Million)

Type	2010	2011	2012	2013	2014	2015	2016	CAGR% (2011-2016)
North America								
Europe								
Japan								
APAC (Excluding Japan)								
ROW								
Total								

Source: Secondary Research, Expert Interviews, MarketsandMarkets Analysis

Executive Summary

The global wireless charging market is expected to reach $XX billion in 2017 from $XX million in 2011 at an estimated CAGR of XX% from 2012 to 2017. Japan ranks first, with revenue increasing from $XX in 2011 to $XX billion in 2017 at an estimated CAGR of XX% from 2012 to 2017. The market of North America will take a couple of years to grow due to slow acceptance of the concept of wireless charging. The consumers are yet in the learning curve of the concept and will take time to accept this new technology. The European market is expected to increase from $XX million in 2011 to $XX million in 2017 at an estimated CAGR of XX% from 2012 to 2017.

APAC Wireless Charging Market, By Country, 2012 – 2017 ($Million)

Region	2009	2010	2011	2016	CAGR% (2011-2016)
China					
Korea					
Taiwan					
Others					
Total					

After Japan, APAC accounts for the second largest share of the global wireless charging market. The APAC wireless charging market is expected to increase from $XX million in 2011 to $XX million in 2017 at an estimated CAGR of XX% from 2012 to 2017. China is expected to the biggest market in the APAC region with revenues increasing from $XX million in 2011 to $XX million in 2017 at an estimated CAGR of XX% from 2012 to 2017.

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Global Wireless Charging Market Revenue, By Technology, 2010 – 2017 ($Million)									
Technology	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**CAGR% (2011-2016)**
Inductive									
RF									
Magnetic Resonance									
Others									
Total									

Global Radio Frequency Technology Market, By Geography, 2012 – 2017 ($Thousand)									
Region	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**CAGR% (2011-2016)**
North America									
Europe									
APAC									
ROW									
Total									

Global Market For Wireless Charging Pads, By Geography, 2012 – 2017 ($Million)									
Region	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**CAGR% (2011-2016)**
North America									
Europe									
Japan									
APAC (Excluding Japan)									
ROW									
Total									

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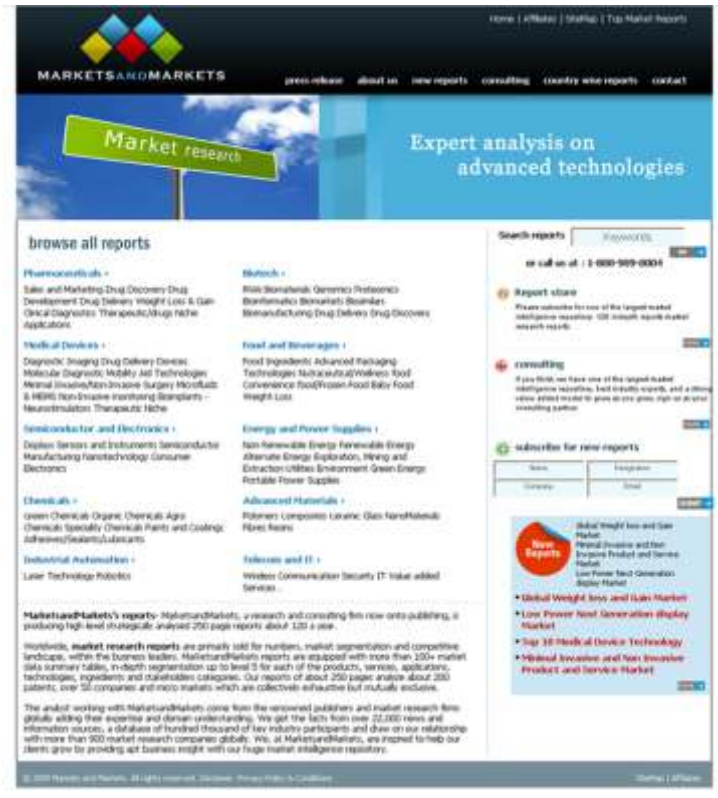

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Report Code: SE 1112

Global Electromagnetic Compatibility (EMC) Shielding Market (2011-2016)

Electromagnetic radiation that affects the performance of electrical equipments is referred to as electromagnetic interference (EMI). When systems or equipments are manufactured in such a manner that they do not cause EMI, they are said to have electromagnetic compatibility (EMC). EMC shielding materials are generally used to protect the devices/ equipments from EMI. The size of EMC shielding materials market is largely governed by its adoption level in critical application sectors such as aerospace, defense, medical. The market for EMC products and materials is expected to reach around $12 billion by 2015.

Report Code: SE 1723