

# Power Sources for the Internet-of-Things: Markets and Strategies

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## Abstracts

NanoMarkets believes that the deployments of sensors and processors for the Internet-of-Things (IoT) are creating huge new opportunities for manufacturers of power source devices. Because of IoT, power devices such as thin-film and printed batteries, energy harvesting modules, small flexible photovoltaics panels and thermoelectric sources, which have enjoyed marginal revenues up to now, may begin generating hundreds of millions of dollars in annual revenues.

However, suppliers of IoT power sources, as well as the semiconductor industry more generally face significant uncertainties in the IoT space. Not only is future of the IoT itself unclear, but also how the IoT “power infrastructure” will shape up technologically is a great unknown.

The objective of this report is to identify where the money will be made and lost in the emergent IoT power source business. It begins with an assessment of the power requirements of the various devices that NanoMarkets believes will form the “things” in the IoT. These include sensor networks, MCUs/MPUs and tagging devices, for example. The report continues by considering how established technologies such as batteries will adapt to new IoT opportunities and whether emerging technologies such as energy harvesting and thermoelectric power sources will find their first big markets as the result of IoT.

The report explores the opportunities for all industry sectors that will be impacted by the development of new power sources for the IoT. In particular we examine how leading battery companies, chipmakers, OEMs and others are preparing for the business opportunities in the IoT power source space. The report also discusses the strategies of eight firms that NanoMarkets believes will shape the market for power sources for the

IoT over the next decade.

We believe that this report will be essential reading for business development and marketing executives in the battery, energy harvesting, RFID, sensors, photovoltaics and semiconductor industries, as well as the investment community. In addition to providing a thorough analysis of the IoT power source markets, this report also provides detailed eight-year forecasts of power sources for the IoT in both volume and value terms and with break outs by power source types.

## Contents

### EXECUTIVE SUMMARY

Objectives and Scope of this Report  
Methodology and Information Sources  
Plan of this Report  
What the IoT Needs: Summary of Power Source Requirements for the IoT  
Hardware/ Software Strategies for Lowering Power Consumption in the IoT  
Power Sources for the IoT: A Summary of Opportunities  
MPUs and MCUs  
Battery Makers  
Novel Energy Harvesting Devices  
Novel Energy Harvesting Devices  
Opportunities for Start-Ups  
Eight Companies to Watch in the IoT Power Source Market  
Summary of Eight-Year Forecasts of IoT Power Sources

### CHAPTER ONE: INTRODUCTION

Internet of Things: Classification of Applications  
Internet-of-Things: The Very Need  
New Methods to Power Internet-of-Things Applications  
Key Global Market for the IoT Power Source Industry  
Key Drivers of IoT Power Source industry  
Favorable Factors for the Industry  
Key Issues Faced by the Industry  
Trends in IoT Power Source industry  
Potential Applications  
Commercial Application Trends

### CHAPTER TWO: POWER REQUIREMENTS FOR THE INTERNET-OF-THINGS

Power Requirements for Sensors in the IoT  
Variations by Type of Sensor  
Wireless Sensor Networking Standards: Implications for Power Sources  
Power Sources Used in WSNs: Current and Future  
Role of MCUs/MPUs in the IoT  
Power Requirements for MCUs/MPUs in the IoT

Power Sources for MCUs/MPUs in the IoT  
RFIDs and Other Tagging Devices in the IoT  
RFIDs and Ambient Energy in the IoT  
Key Points Made in this Chapter  
Available

## **CHAPTER THREE: IOT POWER SOURCES: MARKETS AND EIGHT-YEAR FORECASTS**

Inductive Power Sources for IOT  
Current and Future Use of Inductive Power Sources in the IoT  
Market Opportunities for Inductive Power Sources for IoT  
Key Suppliers of Inductive Power Sources for IoT  
Eight-Year Forecast of Inductive Readers and Power Sources for the IoT  
Eight-Year Forecast of Inductive Readers and Power Sources for the IoT  
Batteries for IoT  
Thin-Film Batteries in the IoT  
Printed batteries in the IoT  
Do Conventional Batteries Have a Role in the IoT?  
Market Opportunities for Batteries in the IoT  
Key Suppliers of Batteries for the IoT  
Eight-Year Forecast of Batteries for the IoT  
Energy Harvesting  
Overview of Energy Harvesting Power Sources  
Energy Harvesting  
Solar Sources: Available Materials Sets  
Motion Based Energy Harvesting  
Motion- and Vibration-Based Energy Harvesting  
Market Opportunities for Energy Harvesting in IoT  
Key Suppliers of Energy Harvesting Devices for IoT  
Eight-Year Forecast of Energy Harvesting Devices for the IoT  
Summary of Eight-Year Forecasts of IoT Power Sources  
Key Points Made in this Chapter  
Research Team

## **CONTACT US**

## **LIST OF FORECAST EXHIBITS**

Summary of Eight-Year Forecasts of IoT Power Sources

Inductive Power Source Market by Application

Thin-Film and Printed Batteries Market by Application

Energy Harvester Market by Application

Summary of Market Value of Power Sources for the IoT by Type

Power Requirements for Sensors in the IoT

Eight-Year Forecast of Inductive Readers and Power Sources for the IoT

Eight-Year Forecast of Batteries for the IoT

Eight-Year Forecast of Energy Harvesting Devices for the IoT

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