

Wireless Sensor Tags Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Active Tags, Passive Tags), By Application (Automotive, Consumer Electronics, Industrial, Aerospace & Defense, Healthcare, Others), By Region, and By Competition, 2018-2028

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Abstracts

Global Waste Heat Recovery System Market was valued at USD 73.03 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 7.43% through 2028. The Global Waste Heat Recovery System Market is presently experiencing a remarkable surge in growth, primarily driven by the escalating demand for efficient and sustainable energy solutions in an increasingly industrialized and energy-conscious world. Waste Heat Recovery System solutions, celebrated for their prowess in harnessing and converting waste heat into usable energy, are assuming a pivotal role in redefining energy strategies and bolstering organizations' sustainability efforts. This exploration delves into how Waste Heat Recovery System technology is driving substantial changes across industries, ensuring efficient and eco-friendly energy utilization in an era where sustainability takes center stage.

Waste Heat Recovery System technology has unquestionably emerged as a game-changer in the world of sustainable energy management. As industries and organizations grapple with the challenges of reducing greenhouse gas emissions, optimizing energy consumption, and minimizing environmental impact, the demand for innovative solutions has surged. Waste Heat Recovery System solutions offer a transformative approach, capturing and repurposing waste heat from industrial processes, thereby reducing energy wastage and greenhouse gas emissions. These solutions encompass a range of technologies, including heat exchangers, organic

Rankine cycle systems, and thermoelectric generators, all designed to enhance energy efficiency and sustainability.

One of the primary drivers for the adoption of Waste Heat Recovery System technology is the imperative of sustainability and environmental responsibility. Organizations across the globe are under increasing pressure to align with sustainability goals, reduce their carbon footprint, and demonstrate a commitment to environmentally conscious practices. Waste Heat Recovery Systems allow them to achieve these objectives by efficiently utilizing waste heat, lowering energy consumption, and curbing emissions, all while contributing to a greener and more sustainable future. Furthermore, the economic benefits of Waste Heat Recovery Systems play a significant role in their adoption. These systems not only reduce energy costs but also offer the potential for revenue generation through the sale of excess recovered energy or through government incentives and carbon credit programs. This financial viability adds to the appeal of Waste Heat Recovery Systems, making them a prudent choice for organizations looking to enhance their bottom line while adhering to sustainability principles.

In conclusion, the Global Waste Heat Recovery System Market is presently in the midst of a profound transformation, driven by the imperative of sustainability and efficient energy utilization in an environmentally conscious world. Waste Heat Recovery System solutions are redefining how industries manage their energy resources, offering a sustainable and economically attractive approach to energy utilization. As the world continues to prioritize sustainability and energy efficiency, the pivotal role of Waste Heat Recovery System technology in shaping a more eco-conscious and energy-efficient future is undeniable, fostering innovation, economic prosperity, and environmental responsibility.

Key Market Drivers:

Increasing Focus on Energy Efficiency and Sustainability

One of the primary driving factors in the Global Waste Heat Recovery System Market is the escalating focus on energy efficiency and sustainability across various industries. As the world grapples with the challenges of climate change and environmental degradation, there is a growing awareness of the need to reduce energy consumption, minimize greenhouse gas emissions, and adopt more sustainable energy practices.

Waste Heat Recovery Systems play a pivotal role in addressing these concerns. They enable industries to capture and utilize waste heat that would otherwise be dissipated

into the environment. This recovered heat can then be converted into useful energy, such as electricity or thermal energy, thereby significantly enhancing overall energy efficiency. By implementing Waste Heat Recovery Systems, industries can reduce their reliance on fossil fuels and decrease their carbon footprint, aligning with global sustainability goals and regulations.

Furthermore, the economic benefits of improved energy efficiency cannot be overstated. Reduced energy consumption leads to lower operational costs, increased competitiveness, and improved profitability. Waste Heat Recovery Systems not only contribute to sustainability but also offer a compelling financial incentive for industries to adopt these technologies.

Stringent Environmental Regulations and Emission Reduction Targets

Stringent environmental regulations and emission reduction targets imposed by governments and international bodies are another significant driver in the Waste Heat Recovery System Market. Governments worldwide are introducing stringent policies aimed at curbing greenhouse gas emissions, promoting energy conservation, and fostering sustainable industrial practices.

To meet these regulatory requirements and avoid penalties, industries are compelled to adopt cleaner and more efficient technologies. Waste Heat Recovery Systems offer an effective solution to reduce emissions and enhance energy efficiency simultaneously. By recovering and reusing waste heat, industries can minimize their reliance on fossil fuels and reduce the emissions associated with energy production. Additionally, some regions provide financial incentives, tax credits, or subsidies to encourage the adoption of energy-efficient technologies, including Waste Heat Recovery Systems. These incentives further motivate industries to invest in such systems, driving market growth.

Technological Advancements and Innovation

Continuous technological advancements and innovation in Waste Heat Recovery System technologies represent a crucial driver in the market. As research and development efforts continue to improve the efficiency, reliability, and cost-effectiveness of these systems, industries are more inclined to adopt them. Innovations in materials, heat exchanger designs, and thermodynamic cycles have led to more efficient and compact Waste Heat Recovery Systems. These advancements enable industries to capture and utilize waste heat from a wider range of processes, making these systems applicable to various industrial sectors.

Moreover, the integration of digital technologies, such as sensors, data analytics, and machine learning, into Waste Heat Recovery Systems has enhanced their performance and monitoring capabilities. These smart systems can optimize heat recovery in real time, making them even more attractive to industries seeking to maximize energy efficiency.

In conclusion, the Global Waste Heat Recovery System Market is being driven by the imperative of energy efficiency, sustainability goals, stringent environmental regulations, and continuous technological advancements. As industries recognize the benefits of waste heat recovery in terms of reduced energy costs, lower emissions, and compliance with regulations, the adoption of these systems is expected to accelerate in the coming years, further propelling market growth.

Key Market Challenges

High Initial Capital Investment

One of the primary challenges in the Global Waste Heat Recovery System Market is the high initial capital investment required for the installation and integration of these systems. While Waste Heat Recovery Systems offer substantial long-term benefits in terms of energy savings, reduced operational costs, and environmental compliance, the upfront costs can be a significant barrier for many industries, especially small and medium-sized enterprises (SMEs).

The cost of designing, engineering, procuring, and installing a Waste Heat Recovery System can vary widely depending on factors such as the size and complexity of the industrial process, the temperature and volume of waste heat available, and the specific technology chosen. In some cases, these costs can be substantial, and the return on investment (ROI) may take several years to realize. For many businesses, especially those operating on tight budgets, the high initial capital expenditure poses a challenge in adopting Waste Heat Recovery Systems. Overcoming this challenge may require financial incentives, subsidies, or financing options to make these technologies more accessible to a broader range of industries.

Technical Integration and Compatibility

The successful implementation of Waste Heat Recovery Systems often requires seamless integration with existing industrial processes and systems. Achieving this

integration can be a complex task, particularly in industries with diverse and intricate manufacturing or production setups. Each industrial process generates waste heat with unique characteristics, including temperature, flow rate, and chemical composition. Consequently, Waste Heat Recovery Systems must be customized to match these specific requirements. Ensuring compatibility and efficient heat transfer between the waste heat source and the recovery system is essential for maximizing energy efficiency.

Another aspect of technical integration is the need for control systems and sensors to monitor and optimize the performance of Waste Heat Recovery Systems in real time. These systems must communicate effectively with the existing industrial control infrastructure to adjust parameters, such as heat exchanger flow rates and temperatures, to maintain optimal operation. Addressing these technical integration challenges often necessitates collaboration between engineers, process experts, and technology providers. Customized solutions and careful planning are essential to overcome these hurdles.

Limited Awareness and Expertise

A significant challenge in the adoption of Waste Heat Recovery Systems is the limited awareness and expertise among industries regarding the potential benefits and available technologies. Many businesses may not fully comprehend the advantages of waste heat recovery or may underestimate its impact on energy efficiency and cost reduction. Additionally, there may be a lack of in-house expertise to assess, design, implement, and maintain Waste Heat Recovery Systems effectively. These technologies often require specialized knowledge in thermodynamics, heat transfer, and system integration. Smaller organizations or those with limited access to technical resources may find it challenging to navigate the complexities of these systems.

To address this challenge, industry associations, government agencies, and technology providers can play a crucial role in raising awareness and providing educational resources. Training programs, workshops, and knowledge-sharing initiatives can help bridge the knowledge gap and empower industries to make informed decisions regarding the adoption of Waste Heat Recovery Systems.

In conclusion, the Global Waste Heat Recovery System Market faces challenges related to high initial capital investment, technical integration and compatibility, and limited awareness and expertise. Overcoming these hurdles will require a combination of financial incentives, technical support, and educational efforts to facilitate the

widespread adoption of these energy-efficient technologies.

Key Market Trends

Emphasis on Energy Efficiency and Sustainability

One prominent trend in the Global Waste Heat Recovery System (WHRS) Market is the increasing emphasis on energy efficiency and sustainability across industries. As organizations strive to reduce their carbon footprint and operational costs, WHRS has emerged as a key technology to achieve these goals. WHRS enables the recovery and reuse of waste heat generated during various industrial processes, effectively converting it into valuable energy resources.

This trend is driven by several factors, including stricter environmental regulations, rising energy costs, and growing awareness of the environmental impact of industrial operations. Industries are now actively seeking ways to harness waste heat, thereby reducing their reliance on conventional energy sources and mitigating greenhouse gas emissions. WHRS not only contributes to a more sustainable future but also offers a compelling return on investment by reducing energy bills and enhancing energy security.

As a result, industries such as manufacturing, chemicals, petrochemicals, and power generation are increasingly integrating WHRS into their processes. This trend is expected to continue, with businesses focusing on optimizing existing WHRS and exploring innovative technologies to recover and utilize waste heat more effectively.

Technological Advancements and Integration with Industry 4.0

Another significant trend in the WHRS market is the rapid technological advancements and integration with Industry 4.0 concepts. Industry 4.0, characterized by the use of automation, data exchange, and digital technologies, is driving the transformation of manufacturing and industrial processes. WHRS is aligning with these principles to enhance its efficiency and capabilities.

Advanced sensors, IoT (Internet of Things) connectivity, and real-time data analytics are being incorporated into WHRS components, enabling more precise monitoring and control of waste heat recovery processes. This integration allows industries to optimize heat recovery in real time, adjusting parameters for maximum efficiency and reducing energy waste.

Furthermore, the integration of WHRS with Industry 4.0 facilitates predictive maintenance, ensuring that WHRS components operate at peak performance and minimizing downtime. This not only enhances the reliability of WHRS but also reduces maintenance costs. Industries are also exploring digital twins and simulation tools to model and optimize waste heat recovery systems before implementation, reducing the risk of underperformance and optimizing energy savings. These technological advancements are propelling WHRS into a new era of efficiency and effectiveness.

Growing Application in Emerging Markets

The adoption of WHRS is experiencing significant growth in emerging markets, representing another notable trend in the industry. While developed regions have been quick to recognize the benefits of waste heat recovery, emerging economies are increasingly recognizing its potential to improve energy efficiency, reduce operational costs, and enhance industrial competitiveness.

In these emerging markets, rapid industrialization and urbanization have led to increased energy consumption and environmental challenges. As a result, governments and industries are actively seeking solutions to address energy efficiency and environmental sustainability. WHRS is being viewed as a viable and cost-effective means to achieve these objectives. Moreover, WHRS technologies are evolving to cater to the specific needs and conditions of emerging markets. Manufacturers are offering scalable and modular WHRS solutions that can be easily integrated into existing industrial processes, making adoption more accessible and cost-effective.

Key industries driving the adoption of WHRS in emerging markets include cement, steel, chemicals, and manufacturing. As these markets continue to expand, the trend of incorporating WHRS into industrial processes is expected to gain further momentum, contributing to both economic and environmental sustainability. In summary, the Global Waste Heat Recovery System Market is witnessing trends such as an increased focus on energy efficiency and sustainability, technological advancements and integration with Industry 4.0, and growing application in emerging markets. These trends collectively demonstrate the evolving landscape of waste heat recovery, with a strong emphasis on maximizing energy efficiency, reducing environmental impact, and driving industrial innovation.

Segmental Insights

Application Insights

Steam & Power Generation is the dominating segment in the global waste heat recovery system market by application.

There are a few reasons for the dominance of the steam and power generation segment in the global waste heat recovery system market. First, steam and power generation is one of the largest energy-consuming sectors in the world. Second, waste heat recovery systems can significantly improve the efficiency of steam and power generation plants. Third, there are a number of mature and well-established waste heat recovery technologies available for steam and power generation applications.

Here are some of the key factors driving the growth of the steam and power generation segment in the global waste heat recovery system market:

- The increasing demand for energy efficiency:** Businesses and governments are increasingly looking to improve their energy efficiency in order to reduce costs and greenhouse gas emissions. Waste heat recovery systems can help to improve energy efficiency by capturing and reutilizing waste heat.
- The rising cost of energy:** The rising cost of energy is making waste heat recovery systems more attractive to businesses and governments. Waste heat recovery systems can help to reduce energy costs by capturing and reutilizing waste heat.
- The increasing availability of waste heat:** The increasing availability of waste heat from industrial processes and power generation plants is driving the growth of the waste heat recovery system market.

Regional Insights

Asia Pacific is the dominating region in the global waste heat recovery system market.

There are a few reasons for the dominance of the Asia Pacific region in the global waste heat recovery system market. First, the Asia Pacific region is home to a number of rapidly growing economies, such as China and India. Second, the Asia Pacific region has a large and growing industrial sector. Third, the Asia Pacific region has a number of government initiatives that support the development and deployment of waste heat recovery systems.

Here are some of the key factors driving the growth of the waste heat recovery system market in the Asia Pacific region:

The rapid economic growth in the region: The rapid economic growth in the Asia Pacific

region is leading to increased demand for energy. Waste heat recovery systems can help to reduce energy consumption and improve energy efficiency.

The growing industrial sector in the region: The growing industrial sector in the Asia Pacific region is generating a significant amount of waste heat. Waste heat recovery systems can help to capture and utilize this waste heat to improve energy efficiency and reduce costs.

The government initiatives that support the development and deployment of waste heat recovery systems: A number of governments in the Asia Pacific region have implemented initiatives to support the development and deployment of waste heat recovery systems. These initiatives include financial incentives and tax breaks. Some of the leading countries in the Asia Pacific waste heat recovery system market include China, India, Japan, and South Korea. These countries have a number of large-scale waste heat recovery projects in operation or under development.

Other regions that are expected to experience significant growth in the waste heat recovery system market include North America and Europe. The growth of the waste heat recovery system market in these regions is being driven by the increasing demand for energy efficiency, the rising cost of energy, and the availability of government initiatives that support the development and deployment of waste heat recovery systems.

Key Market Players

ABB Ltd.

Siemens Aktiengesellschaft

General Electric Company

Mitsubishi Heavy Industries, Ltd.

Thermax Limited

John Wood Group PLC

Kawasaki Heavy Industries, Ltd.

Ormat Technologies, Inc.

Robert Bosch Industriekessel GmbH

D?rr Aktiengesellschaft

Report Scope:

In this report, the Global Waste Heat Recovery System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Waste Heat Recovery System Market, By Application:

Pre Heating

Steam & Power Generation

Waste Heat Recovery System Market, By Temperature:

650°C

Waste Heat Recovery System Market, By End Use:

Petroleum Refinery

Chemical

Cement

Waste Heat Recovery System Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Waste Heat Recovery System Market.

Available Customizations:

Global Waste Heat Recovery System market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL WIRELESS SENSOR TAGS MARKET

5. VOICE OF CUSTOMER

6. GLOBAL WIRELESS SENSOR TAGS MARKET OVERVIEW

7. GLOBAL WIRELESS SENSOR TAGS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type (Active Tags, Passive Tags)
 - 7.2.2. By Application (Automotive, Consumer Electronics, Industrial, Aerospace & Defense, Healthcare, Others)

- 7.2.3. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 7.3. By Company (2022)
- 7.4. Market Map

8. NORTH AMERICA WIRELESS SENSOR TAGS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Application
 - 8.2.3. By Country
 - 8.2.3.1. United States Wireless Sensor Tags Market Outlook
 - 8.2.3.1.1. Market Size & Forecast
 - 8.2.3.1.1.1. By Value
 - 8.2.3.1.2. Market Share & Forecast
 - 8.2.3.1.2.1. By Type
 - 8.2.3.1.2.2. By Application
 - 8.2.3.2. Canada Wireless Sensor Tags Market Outlook
 - 8.2.3.2.1. Market Size & Forecast
 - 8.2.3.2.1.1. By Value
 - 8.2.3.2.2. Market Share & Forecast
 - 8.2.3.2.2.1. By Type
 - 8.2.3.2.2.2. By Application
 - 8.2.3.3. Mexico Wireless Sensor Tags Market Outlook
 - 8.2.3.3.1. Market Size & Forecast
 - 8.2.3.3.1.1. By Value
 - 8.2.3.3.2. Market Share & Forecast
 - 8.2.3.3.2.1. By Type
 - 8.2.3.3.2.2. By Application
 - 8.2.3.3.2.3.

9. EUROPE WIRELESS SENSOR TAGS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type

9.2.2. By Application

9.2.3. By Country

9.2.3.1. Germany Wireless Sensor Tags Market Outlook

9.2.3.1.1. Market Size & Forecast

9.2.3.1.1.1. By Value

9.2.3.1.2. Market Share & Forecast

9.2.3.1.2.1. By Type

9.2.3.1.2.2. By Application

9.2.3.2. France Wireless Sensor Tags Market Outlook

9.2.3.2.1. Market Size & Forecast

9.2.3.2.1.1. By Value

9.2.3.2.2. Market Share & Forecast

9.2.3.2.2.1. By Type

9.2.3.2.2.2. By Application

9.2.3.2.2.3.

9.2.3.3. United Kingdom Wireless Sensor Tags Market Outlook

9.2.3.3.1. Market Size & Forecast

9.2.3.3.1.1. By Value

9.2.3.3.2. Market Share & Forecast

9.2.3.3.2.1. By Type

9.2.3.3.2.2. By Application

9.2.3.4. Italy Wireless Sensor Tags Market Outlook

9.2.3.4.1. Market Size & Forecast

9.2.3.4.1.1. By Value

9.2.3.4.2. Market Share & Forecast

9.2.3.4.2.1. By Type

9.2.3.4.2.2. By Application

9.2.3.5. Spain Wireless Sensor Tags Market Outlook

9.2.3.5.1. Market Size & Forecast

9.2.3.5.1.1. By Value

9.2.3.5.2. Market Share & Forecast

9.2.3.5.2.1. By Type

9.2.3.5.2.2. By Application

9.2.3.5.2.3.

10. SOUTH AMERICA WIRELESS SENSOR TAGS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type

10.2.2. By Application

10.2.3. By Country

10.2.3.1. Brazil Wireless Sensor Tags Market Outlook

10.2.3.1.1. Market Size & Forecast

10.2.3.1.1.1. By Value

10.2.3.1.2. Market Share & Forecast

10.2.3.1.2.1. By Type

10.2.3.1.2.2. By Application

10.2.3.2. Colombia Wireless Sensor Tags Market Outlook

10.2.3.2.1. Market Size & Forecast

10.2.3.2.1.1. By Value

10.2.3.2.2. Market Share & Forecast

10.2.3.2.2.1. By Type

10.2.3.2.2.2. By Application

10.2.3.2.2.3.

10.2.3.3. Argentina Wireless Sensor Tags Market Outlook

10.2.3.3.1. Market Size & Forecast

10.2.3.3.1.1. By Value

10.2.3.3.2. Market Share & Forecast

10.2.3.3.2.1. By Type

10.2.3.3.2.2. By Application

10.2.3.3.2.3.

11. MIDDLE EAST & AFRICA WIRELESS SENSOR TAGS MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Type

11.2.2. By Application

11.2.3. By Country

11.2.3.1. Saudi Arabia Wireless Sensor Tags Market Outlook

11.2.3.1.1. Market Size & Forecast

11.2.3.1.1.1. By Value

11.2.3.1.2. Market Share & Forecast

11.2.3.1.2.1. By Type

11.2.3.1.2.2. By Application

- 11.2.3.1.2.3.
- 11.2.3.2. UAE Wireless Sensor Tags Market Outlook
 - 11.2.3.2.1. Market Size & Forecast
 - 11.2.3.2.1.1. By Value
 - 11.2.3.2.2. Market Share & Forecast
 - 11.2.3.2.2.1. By Type
 - 11.2.3.2.2.2. By Application
 - 11.2.3.2.2.3.
- 11.2.3.3. South Africa Wireless Sensor Tags Market Outlook
 - 11.2.3.3.1. Market Size & Forecast
 - 11.2.3.3.1.1. By Value
 - 11.2.3.3.2. Market Share & Forecast
 - 11.2.3.3.2.1. By Type
 - 11.2.3.3.2.2. By Application

12. ASIA PACIFIC WIRELESS SENSOR TAGS MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Size & Forecast
 - 12.2.1. By Type
 - 12.2.2. By Application
 - 12.2.3. By Country
 - 12.2.3.1. China Wireless Sensor Tags Market Outlook
 - 12.2.3.1.1. Market Size & Forecast
 - 12.2.3.1.1.1. By Value
 - 12.2.3.1.2. Market Share & Forecast
 - 12.2.3.1.2.1. By Type
 - 12.2.3.1.2.2. By Application
 - 12.2.3.1.2.3.
 - 12.2.3.2. India Wireless Sensor Tags Market Outlook
 - 12.2.3.2.1. Market Size & Forecast
 - 12.2.3.2.1.1. By Value
 - 12.2.3.2.2. Market Share & Forecast
 - 12.2.3.2.2.1. By Type
 - 12.2.3.2.2.2. By Application
 - 12.2.3.2.2.3.
 - 12.2.3.3. Japan Wireless Sensor Tags Market Outlook
 - 12.2.3.3.1. Market Size & Forecast

- 12.2.3.3.1.1. By Value
- 12.2.3.3.2. Market Share & Forecast
 - 12.2.3.3.2.1. By Type
 - 12.2.3.3.2.2. By Application
 - 12.2.3.3.2.3.
- 12.2.3.4. South Korea Wireless Sensor Tags Market Outlook
 - 12.2.3.4.1. Market Size & Forecast
 - 12.2.3.4.1.1. By Value
 - 12.2.3.4.2. Market Share & Forecast
 - 12.2.3.4.2.1. By Type
 - 12.2.3.4.2.2. By Application
 - 12.2.3.4.2.3.
- 12.2.3.5. Australia Wireless Sensor Tags Market Outlook
 - 12.2.3.5.1. Market Size & Forecast
 - 12.2.3.5.1.1. By Value
 - 12.2.3.5.2. Market Share & Forecast
 - 12.2.3.5.2.1. By Type
 - 12.2.3.5.2.2. By Application

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

- 15.1. Texas Instruments Incorporated
 - 15.1.1. Business Overview
 - 15.1.2. Key Revenue and Financials
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. Key Product/Services Offered
- 15.2. STMicroelectronics
 - 15.2.1. Business Overview
 - 15.2.2. Key Revenue and Financials
 - 15.2.3. Recent Developments

- 15.2.4. Key Personnel
- 15.2.5. Key Product/Services Offered
- 15.3. Emerson Electric Co.
 - 15.3.1. Business Overview
 - 15.3.2. Key Revenue and Financials
 - 15.3.3. Recent Developments
 - 15.3.4. Key Personnel
 - 15.3.5. Key Product/Services Offered
- 15.4. Honeywell International Inc.
 - 15.4.1. Business Overview
 - 15.4.2. Key Revenue and Financials
 - 15.4.3. Recent Developments
 - 15.4.4. Key Personnel
 - 15.4.5. Key Product/Services Offered
- 15.5. Siemens AG
 - 15.5.1. Business Overview
 - 15.5.2. Key Revenue and Financials
 - 15.5.3. Recent Developments
 - 15.5.4. Key Personnel
 - 15.5.5. Key Product/Services Offered
- 15.6. Schneider Electric
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel
 - 15.6.5. Key Product/Services Offered
- 15.7. General Electric
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel
 - 15.7.5. Key Product/Services Offered
- 15.8. NXP Semiconductors
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel
 - 15.8.5. Key Product/Services Offered
- 15.9. Rockwell Automation

- 15.9.1. Business Overview
- 15.9.2. Key Revenue and Financials
- 15.9.3. Recent Developments
- 15.9.4. Key Personnel
- 15.9.5. Key Product/Services Offered
- 15.10. TE Connectivity Ltd.
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel
 - 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

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