

Global Non-Intrusive Load Monitoring Device Market Growth 2026-2032

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Abstracts

The global Non-Intrusive Load Monitoring Device market size is predicted to grow from US\$ 148 million in 2025 to US\$ 352 million in 2032; it is expected to grow at a CAGR of 13.3% from 2026 to 2032.

In 2025, global sales of Non-Intrusive Load Monitoring Devices reached approximately 520,000 units, with an average manufacturer-level selling price of about USD 290 per unit. Gross margins among major manufacturers were approximately 30%–42%.

A Non-Intrusive Load Monitoring Device is an intelligent monitoring device capable of identifying and disaggregating overall electricity consumption without requiring a separate meter or sensor to be installed on each electrical appliance. It is typically connected to the main incoming power line, electricity meter, or distribution circuit, where it continuously collects voltage, current, power, and waveform data. Load disaggregation algorithms are then used to determine the operating status, power consumption, and energy usage of individual appliances or load categories. Its key advantage lies in using a single measurement point to identify multiple loads, enabling itemized energy consumption analysis, abnormal electricity-use detection, equipment condition monitoring, and energy-saving diagnostics at relatively low installation and retrofit costs. The product is also characterized by simple installation, broad monitoring coverage, high data granularity, and suitability for large-scale deployment.

The upstream supply chain of Non-Intrusive Load Monitoring Devices mainly includes current transformers, voltage acquisition chips, metering chips, microprocessors, communication modules, memory components, power modules, printed circuit boards, and structural components, together with load signature databases, identification algorithms, and embedded software. Midstream companies are responsible for

hardware design, data acquisition, algorithm integration, terminal manufacturing, and platform adaptation. Downstream demand primarily comes from residential buildings, commercial buildings, industrial facilities, and public facilities. Key customers include power utilities, energy service providers, property management companies, industrial users, and smart home solution providers, which use these devices for itemized energy monitoring, equipment condition analysis, electrical safety management, energy efficiency optimization, and demand-side management.

United States market for Non-Intrusive Load Monitoring Device is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Non-Intrusive Load Monitoring Device is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Non-Intrusive Load Monitoring Device is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Non-Intrusive Load Monitoring Device players cover Smappee, Voltaware, NET2GRID, Informetis, Joko Labs, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Non-Intrusive Load Monitoring Device Industry Forecast" looks at past sales and reviews total world Non-Intrusive Load Monitoring Device sales in 2025, providing a comprehensive analysis by region and market sector of projected Non-Intrusive Load Monitoring Device sales for 2026 through 2032. With Non-Intrusive Load Monitoring Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Non-Intrusive Load Monitoring Device industry.

This Insight Report provides a comprehensive analysis of the global Non-Intrusive Load Monitoring Device landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Non-Intrusive Load Monitoring Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Non-Intrusive Load Monitoring Device

market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Non-Intrusive Load Monitoring Device and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Non-Intrusive Load Monitoring Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Non-Intrusive Load Monitoring Device market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Standalone Monitoring Terminal

Smart Meter Module-Based Device

Distribution Gateway-Integrated Device

Segmentation by Power Supply System:

Single-Phase

Three-Phase

Segmentation by Data Processing Method:

Edge Computing Type

Cloud Computing Type

Edge-Cloud Collaborative Type

Segmentation by Maximum Monitoring Current:

?100 A

?100–400 A

?400 A

Segmentation by Application:

Residential

Commercial Buildings

Industrial Facilities

Public Facilities

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Smappee

Voltaware

NET2GRID

Informetis

Joko Labs

Kimbal

Verdigris Technologies

Beijing Zhixiang Technology

Wasion Group

Jiangsu Linyang Energy

CSG Smart Electrical Technology

Shanghai Qianju Intelligent Technology

Beijing Huizhi Boyi Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Non-Intrusive Load Monitoring Device market?

What factors are driving Non-Intrusive Load Monitoring Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Non-Intrusive Load Monitoring Device market opportunities vary by end market size?

How does Non-Intrusive Load Monitoring Device break out by Type, by Application?

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