



ENERGY 



Energy Management Software for Grid-Interactive Commercial Buildings

MARKET SIZING & COMPETITIVE LANDSCAPE 2024 TO 2029

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Energy
Management
Software for
Grid-
Interactive
Buildings



meemori

Synopsis

This report is a new 2024 study that provides a detailed market forecast to 2029, broken down by region and technology.

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Research AB

Introduction

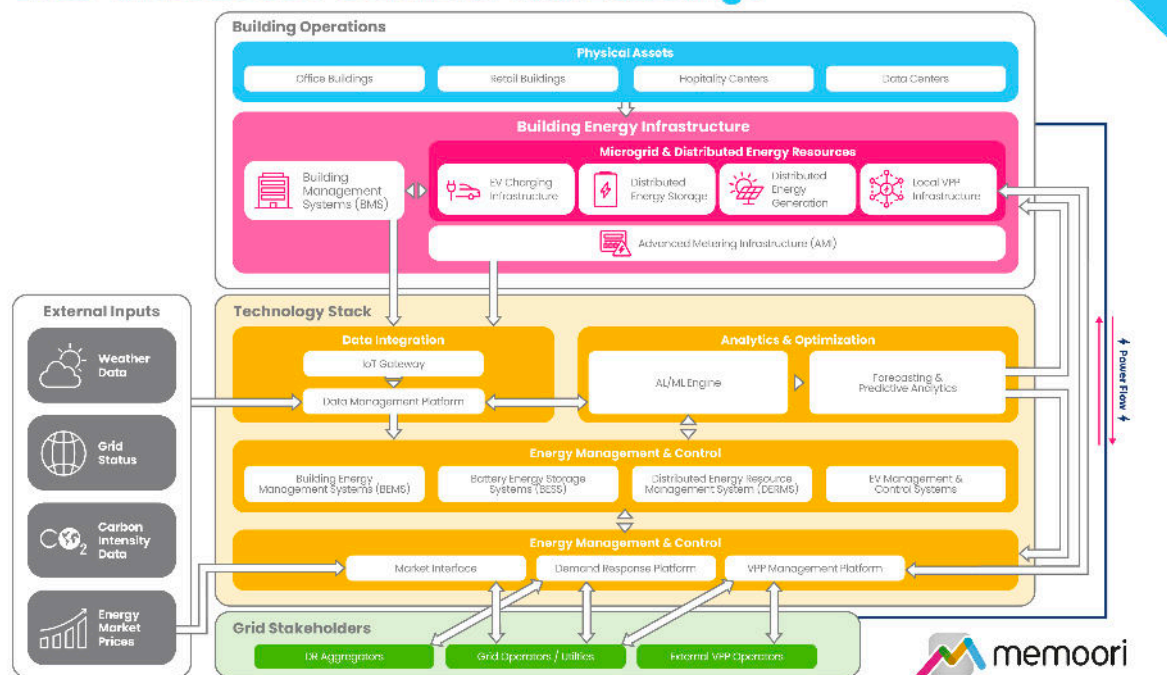
The commercial real estate sector is undergoing a fundamental transformation in how buildings interact with and manage energy resources. Grid-Interactive Efficient Buildings (GEB) are emerging as a critical solution for property stakeholders facing mounting pressures from rising energy costs, stringent regulatory requirements, and ambitious carbon reduction targets.

This new research identifies a robust ecosystem of 130 companies providing GEB integration solutions. These vendors are developing sophisticated platforms that combine demand response capabilities, distributed energy resource management systems (DERMS), and AI-driven optimization tools to create more resilient and sustainable building operations.

The report includes, at no extra cost, a spreadsheet containing the data from the report and high-resolution presentation charts showing the key findings. It is the second in a 2-part series of reports, with the first report on AI HVAC Optimization having been published last month.

Both these reports are included in Memoori's 2024 Premium Subscription Service, which also gives access to our chatbot AIM, where you can query all our research using the power of Large Language Models (LLMs).

Technology Stack: Energy Management for Grid-Interactive Commercial Buildings



Our infographic above provides an overview of how commercial buildings integrate with the electrical grid using advanced energy management technologies and DERs. **It highlights the relationships between building operations, the technology stack, and the grid stakeholders, showing the interconnected systems and data flows that optimize energy use, enable grid services, and allow buildings to generate and manage energy locally.**

Market Breakdown by Application

The global market for energy management software in Grid-Interactive Efficient Buildings (GEB) can be broken down into 4 key application areas, each serving distinct functions that support grid reliability, optimize energy usage, and enhance building flexibility.

- Demand Response & Virtual Power Plants (VPPs) allow buildings to reduce or shift energy consumption in response to grid signals, helping stabilize demand during peak times.
- Distributed Energy Resource Management Systems (DERMS) & Microgrids enable buildings to manage and control on-site renewable generation and storage, providing resilience and allowing participation in local energy trading.
- Distributed Energy Storage software maximizes the efficiency and lifespan of on-site batteries, allowing buildings to store energy for use during peak demand or grid outages.
- EV Charging & Flexible Load Management solutions manage the high energy demands of electric vehicle (EV) charging, distributing load intelligently to avoid grid strain and, in some cases, using EVs as mobile energy storage units.

Each of these application areas plays a crucial and distinct role in transforming commercial buildings into active, responsive participants in the energy grid.

Within its 221 Pages and 18 Charts, the report filters out all the key facts and draws conclusions, so you can understand exactly how energy management software is impacting GEB systems and why.

The global market for energy management software in Grid-Interactive Efficient Buildings (GEB) is poised for significant growth. The report projects revenues to increase from \$2.98 billion in 2023 to \$4.88 billion by 2029, representing a compound annual growth rate (CAGR) of 8.56%. This expansion is driven by increasing regulatory pressures, rising energy costs, and the growing demand for building energy resilience.

The market for grid-interactive buildings has experienced significant consolidation and investment activity since 2021, reflecting the sector's rapid evolution and strategic importance.

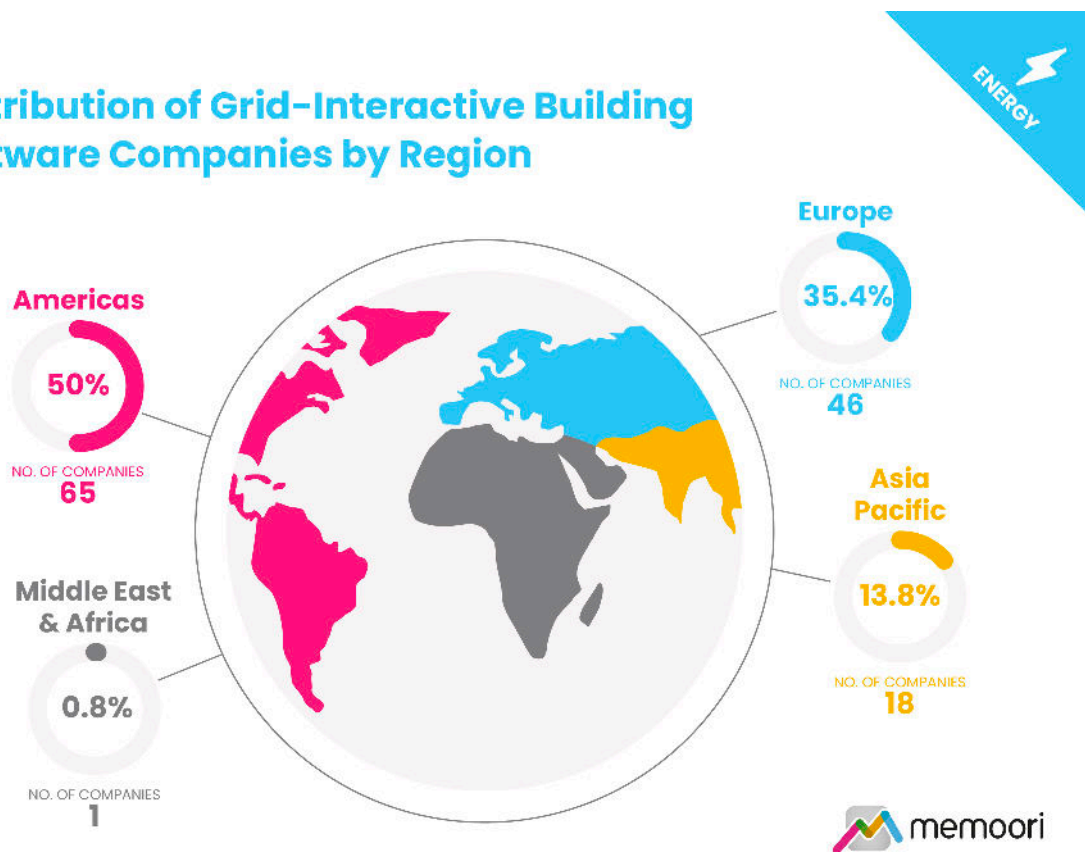
Major acquisitions have focused on expanding AI-driven capabilities, enhancing distributed energy resource (DER) integration, and strengthening VPP capabilities. Notable deals include Fluence's purchase of Nispera, and Budderfly's acquisition of Sunverge Energy's DERMS platform.

Investment activity remains robust despite challenging market conditions, with over \$4 billion in disclosed funding across 60 private companies in the sector. The average funding round stands at \$67 million, with typically seven investors participating per round.

Who Should Buy this Report?

The information contained in this report will be of value to all those engaged in managing, operating, and investing in Commercial Buildings (and their Advisors) around the world. The report aims to help stakeholders make informed decisions that will drive the future of GEBs and energy management.

Distribution of Grid-Interactive Building Software Companies by Region



The chart above shows The Americas dominate the market in terms of the number of companies, accounting for 50% of all of the grid-interactive building software companies identified.

This leadership reflects the region's substantial investment in energy efficiency and grid-interactive building software, supported by a mature regulatory environment and access to significant capital resources.

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How to Order

The report is priced at **\$3,000 USD (Enterprise License)**. It is delivered as an electronic file download, via email.

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