Description: Buildings are at the pivotal centre of our lives. The characteristics of a building, its design, its look and feel, and its technical standards not only influence our productivity, our well-being, our moods and our interactions with others, they also define how much energy is consumed in and by a building, and how much heating, ventilation and cooling energy is needed to create a pleasant environment.

Building energy use is driven by demographics, economic development, lifestyles, changes in energy sources and technology. With high CO2 emissions and growing demand for electric power the need for effective & efficient energy management system is felt now more than ever.

Thus the evolution of Building Energy Management Systems or BEMS

A Building Energy Management System (BEMS) can do a range of extremely useful things. It can:
1) Switch plant on and off automatically
2) Optimise plant operation and services
3) Monitor plant status and environmental conditions
4) Provide energy analysis and management information

The BEMS industry will see a rapid growth as the demand grows for reducing global greenhouse emissions, increasing amounts of renewable energy integration into the smart grid and rising prices of fossil fuels. Bigger companies cite the importance of Energy Efficiency and are going all out to achieve dominance. Furthermore, there is huge scope for multiple convergences of technology, services & competition. The market though in its infancy, now is the time to get these strategic alliances in place.

Today, in managing energy and environment in Smart Buildings, there are four different areas that can and will play important roles. Of these, BEMS sits at the centre; providing the control of the buildings environment and delivers most of the data and information, upon which the EEM system provides an end-to-end solution for enterprise energy management in the building.

Drivers
- Urbanization: all over the world, cities need to become smarter: more efficient, more liveable and more sustainable.
  This means: improving the efficiency of the city's underlying urban infrastructures (electricity grid, gas distribution system, water distribution system, public transportation systems, public services, commercial buildings, hospitals, homes, etc); Becoming a better place to live, work and play
- Reducing its environmental impact – lower carbon footprint, urban regeneration, parks and trees, etc

Challenges
- While smart technology is converging, the different levels of activity are still predominantly driven and led by a different group of organizations. - Moving from the specific to the more general, the interpersonal and organizational aspects become more central. Given the complexity, the process of creation and organization is likely to be collaborative
- The report focuses on the BEMS growth potential in Europe and the competitive landscape. The strength and weaknesses of each company and leaders (their market shares) in BEMS market by country. The report as well lists & broaches on the inter-relationship among Utility Providers/Energy Service Companies, Building Automation Control Companies, Smart Devices, Appliances and HVAC Companies, Energy Management Software Companies, Property Management Companies, Energy Services / Building Insulation / Specialist Building Retrofitting Companies.

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