

ThyssenKrupp Elevator

Press release

September 16, 2015

ThyssenKrupp: Sustainable cities need immediate action

As of today, buildings account for 40 percent of global energy consumption. Diversified industrial group ThyssenKrupp is calling for more energy efficient design in our urban landscapes, having analysed that energy savings in our buildings need to be implemented now in order to achieve meaningful levels in 15 years.

Ahead of the meeting on Energy Efficiency in Industry hosted by the International Partnership for Energy Efficiency Cooperation (ipeec) and International Energy Agency (iea) taking place today in Paris, France, Sascha Frömming, Head of Innovation and Sustainability Management of ThyssenKrupp Elevator, said “Buildings in our cities today are being “locked in” to poor energy patterns by inefficient building services which have an average lifespan of 15 years. Building systems such as elevators, heating, ventilation and refrigeration are not running at their most efficient levels, so it is of utmost importance we address this now.”

Every single commercial building that is built today locks in an average of 12,000 MWh of electricity consumption for the next 15 years. Frömming added: “The energy production verses consumption debate is nothing new, but rapidly increasing urbanization across the world today is accelerating the conversation. By 2030, up to 60 percent of the global population will live in cities, and energy consumption in these urban areas will increase by around a quarter. As a result, today’s energy inefficient buildings will simply not be able to accommodate the rising energy demand, making it imperative for urban development decisions made today for future cities to be forward-thinking.”

Accounting for the largest share of global energy usage today (40 percent), buildings are at the very heart of the energy efficiency debate. In cities, the upward trend of buildings revolves the conversation around how to make high-rise buildings run more smartly; minimizing consumption and reducing the urban energy footprint. With buildings getting taller, elevators are one of the most integral energy-using systems in our cities and are thus a key area for address when seeking to improve urban energy efficiency.

Innovative elevator technologies such as ThyssenKrupp's TWIN system are just one example of the solutions that can help. Comprising of two elevator cabins operating in the same shaft across different floors, the system can save an average of 27 percent of energy and reduce the electrical power required in a building by half when compared with other technologies. These elevators can also operate as power generators by converting the elevators' kinetic energy into electricity and feeding it back into the power grid, reducing energy needs for the building by as much as 30 percent.

Putting advanced technology into buildings - now

Such technological solutions are required around the world, and can be adapted to suit the needs of different regions. In Europe, for example, a third of the buildings standing in 2030 will have been built before 1970, and as a result will require significant modernization to bring them in line with contemporary energy requirements and standards. Retrofitting these aged elevators with modern solutions could reduce energy consumption by up to 70 percent.

Frömming concluded: "Energy-efficient elevator solutions are at the core of creating truly sustainable cities of the future. The time to integrate these systems into buildings is now. The

ThyssenKrupp Elevator

Press release

Page: 3
Date: 16.09.2015

expertise and products already exist; the challenge is speeding up the integration process to upgrade our building stock more quickly.”

Sascha Frömming is delivering a presentation at the Meeting on Energy Efficiency in Industry in Paris, France this Wednesday, September 16.

ThyssenKrupp Elevator

ThyssenKrupp Elevator brings together the Group's global activities in passenger transportation systems. With sales of 6.4 billion euros in fiscal 2013/2014 and customers in 150 countries, ThyssenKrupp Elevator reached to short group the world's leading elevator companies from scratch in a mere 40 years' time applying ThyssenKrupp unique engineering capabilities. With more than 50,000 highly skilled employees, the company offers smart products and services designed to meet customers' individual requirements. Its innovative solutions aim to contribute to the development of smarter cities. The portfolio includes passenger and freight elevators, escalators and moving walks, passenger boarding bridges for airports, stair and platform lifts as well as tailored service solutions. Its 900 locations around the world provide an extensive sales and service network to guarantee closeness to customers.

ThyssenKrupp

ThyssenKrupp is a diversified industrial group with traditional strengths in materials and a growing share of capital goods and services businesses. Over 155,000 employees in nearly 80 countries work with passion and technological expertise to develop high-quality products and intelligent industrial processes and services for sustainable progress. Their skills and commitment are the basis of our success. In fiscal year 2013/2014 ThyssenKrupp generated sales of around €41 billion.

Together with our customers we develop competitive solutions for the challenges of the future in the areas Mechanical, Plant and Materials. With our engineering expertise we enable our customers to gain an edge in the global market and manufacture innovative products in a cost- and resource-friendly way. For us, technical progress and innovations, allied with the combined strength of the Group, are key factors enabling us to meet current and future customer and market requirements around the world, grow on the markets of the future, and generate strong and stable earnings, cash flows and value growth.



ThyssenKrupp Elevator

Press release

Page: 4
Date: 16.09.2015

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