

IT company saves energy and costs with retrofits and data

## Achieving climate targets with EC fans and Energy Command Center

**A global leader in corporate and technology transformation consistently relies on sustainable solutions in India to achieve its climate targets. Two central components play a crucial role: extensive retrofits of the ventilation systems using highly efficient EC fans from ebm-papst and central control from the Energy Command Center (ECC).**

Since 2016, Capgemini has been pursuing the goal of reducing its real estate energy consumption and cutting its environmental footprint. In close cooperation with ebm-papst, more than 1,000 fans have already been replaced at eight locations in India. The old ventilation systems—including air conditioning and air handling units, cooling towers, and precision air-conditioning units for data centers—were equipped with outdated and energy-intensive fans. Significant savings have been achieved thanks to the use of modern EC technology.

### **AxiBlade and RadiCal 2 for greater energy efficiency**

The cooling towers were fitted with 142 AxiBlade axial panel fans of the latest generation from ebm-papst, facilitating air flows of as much as 40,000 m<sup>3</sup>/h and an efficiency of up to 60 percent. In addition, several air handling systems of the same design were fitted with some 300 RadiCal 2 centrifugal fans equipped with an improved EC motor that is even quieter and yields greater efficiency. These components can be easily installed via plug & play and have active PFC to minimize the impact of grid failure.

### **Energy consumption reduced by 30 percent**

The results speak for themselves: Since the retrofits, Capgemini has been able to reduce energy consumption by approximately 30 percent. Viswanathan Rajendran, Vice President of Engineering Services & Sustainability, emphasizes: “Just as impressive is the technical excellence of the products and the commitment to efficiency, resulting in large savings.” Capgemini relies on digital system control in addition to the hardware. All the fans are equipped with MODBUS interfaces and integrated into the Energy Command Center. This central monitoring system facilitates automatic and round-the-clock control by specialists. Since the establishment of the ECC, electricity consumption has been reduced across all locations and was 25 GWh lower in 2023 than in 2019.

In the future, Capgemini plans to leverage even more efficiency potential with the aid of artificial intelligence. Rajendran explains: “Together with ebm-papst, we aim to push the boundaries of innovation and press ahead with our sustainability targets.” Both companies are relying on the latest technology, data and fresh air to ensure a sustainable future.

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August 7, 2025 - Page 1 of 3

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Fig. 1: Since 2016, over 1,000 highly efficient EC fans have been installed in the various systems and locations.



Fig. 2: A total of 142 Generation 3 AxiBlade fans from ebmpapst were used for the retrofits of the cooling towers in 2024.

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August 7, 2025 - Page 2 of 3

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Fig. 3: Almost 300 RadiCal 2s with third-generation EC motors and active PFC were installed in air handling units of the same design in 2024.

Fig. 1: ebm-papst (Mahesh Shantaram / Fotogloria)  
Fig. 2 and 3: ebm-papst  
Characters Approx. 2,800, including headings and sub-headings  
Tags Retrofit, ventilation systems, cooling towers, IT, EC fans, RadiCal 2, AxiBlade  
Link [www.ebmpapst.com/retrofit](http://www.ebmpapst.com/retrofit)

### About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, is the world's leading manufacturer of fans and motors. Since it was founded in 1963, the technological leader has set international industry standards with its core competencies in motor technology, electronics, digitalization, and aerodynamics.

ebm-papst offers sustainable, intelligent, and tailor-made solutions for virtually every requirement in ventilation and heating technology. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning and refrigeration technology, heating technology, information technology, mechanical engineering, and medical technology.

In the 2024/25 financial year, the ebm-papst Group generated a turnover of 2.1 billion euros. It employs just around 13,500 people at 30 production sites, including in Germany, China, and the U.S., as well as 50 sales offices worldwide.

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