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Dubai Airports to save 20% on annual energy bill with Siemens solution

- **Siemens guarantees power and water savings for seven years**
- **Data analytics from automation systems used to design tailor-made energy conservation measures**

Dubai Airports will use Siemens' data analytics and smart building technology to guarantee annual energy savings of almost 20 percent per year at Dubai Airports' facilities, by implementing energy efficiency measures at Terminal 1, Terminal 2, Terminal 3 and Concourse B at Dubai International (DXB). Focusing on air and water systems, the seven-year project is expected to reduce CO2 emissions by approximately 25,000 tons, with annual electricity savings of approximately 50 gigawatt hours (GWH), and water savings of around 21 million gallons. The initiative is part of Dubai Airports' comprehensive energy-saving strategy and program designed to limit the environmental footprint at both of its airports.

A tailor-made energy optimization solution has been designed for the project by Siemens, comprising a range of physical and digital technologies including variable frequency drives, panels, sensors, intelligent controls, energy metering and efficient water fixtures. These will be deployed to the air and water systems to optimize the air-handling units, chilled water system, fresh air plant and the secondary fresh air, supply and exhaust fan systems.

"Sustainability underpins our facility management strategy and these energy and water savings have the double benefit of limiting our environmental footprint and improving our bottom line," said Michael Ibbitson, Executive Vice President, Infrastructure & Technology at Dubai Airports. "As longstanding partners, Siemens understands our business, our systems and has the expertise and technology needed to help us deliver our vision."

“By optimizing technical infrastructure at Dubai International and providing enhanced control and data analytics, we are able to guarantee significant resource savings with sustainable environmental and financial benefits,” said Markus Strohmeier, Senior Executive Vice President, Building Technologies, Siemens Middle East. “We recognize that Dubai Airports operates mission-critical infrastructure, and we are committed to using technology and expertise to ensure it is functioning at its most efficient.”

Siemens will be responsible for the project’s design, supply, installation, commissioning and maintenance, and also the measurement, verification and guarantee of energy savings for seven years. The customer is Etihad ESCO (Energy Service Company), a venture by Dubai Electricity and Water Authority launched in 2013 to promote a performance contracting market for energy service companies. Etihad ESCO aims to jumpstart the creation of viable performance contracting market for energy service companies by executing building retrofits, increasing penetration of district cooling, building capacity of local ESCOs for private sector and facilitating access to project finance.

In October 2017, Etihad ESCO signed an agreement with Dubai Airports for the retrofitting of Terminals 1, 2, 3 and Concourse B of Dubai International Airport.

Siemens is a pioneer in digitalized buildings in the Middle East, having implemented smart building technology in key landmarks including Abu Dhabi’s Sheikh Zayed Grand Mosque, Dubai’s Atlantis Hotel and 3D-printed Office of the Future, and the recently-launched Dubai Opera.

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world’s largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive

and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2016, which ended on September 30, 2016, Siemens generated revenue of €79.6 billion and net income of €5.6 billion. At the end of September 2016, the company had around 351,000 employees worldwide.

Further information is available on the Internet at www.siemens.com

About Dubai Airports

Dubai Airports manages the operation and development of both of Dubai's airports – DXB and DWC.

As integrator, Dubai Airports works to balance the interests of all stakeholders to maintain aviation growth, protect operational resilience and ensure that service providers collaborate to provide a safe and secure service and improve the experience of our customers whilst maintaining a sustainable business.

DXB is the world's number one airport in terms of international passenger traffic and number three globally in terms of total passenger traffic as reported by Airports Council International.

DXB ranks fourth globally for international cargo traffic.