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SOLUTIONS AT WORK

Every year, 6 million people visit the Sistine Chapel and view Michelangelo’s iconic frescoes. Dust, sweat and carbon dioxide brought in by visitors have damaged this priceless artwork.

The Vatican Museums turned to United Technologies to solve this problem. Carrier engineers designed a solution that maintains optimal climate conditions. An intelligent system of controls, linked with smart video cameras, enables the HVAC system to anticipate visitor levels and adjust performance. The system delivers twice the efficiency and three times the capacity of the previous system.

Carrier’s innovative system will protect the artistic brilliance of Michelangelo’s frescoes for generations to come.

Sustainability is core to United Technologies’ growth. It has been a focus for three decades, and we’re committed to doing more.

Continuous improvement is engrained in our culture. Every day, our people develop innovative technologies for a changing world, while minimizing environmental impact.

United Technologies is an engineering and manufacturing company that solves complex problems. While others may see sustainability as a challenge, we see it as an opportunity. Our people are at the heart of our innovations, supporting smarter, greener buildings; developing solutions that extend the world’s food supply; and reshaping aviation with efficient technologies. Together, we power modern life and move the world forward.

Since 1997, we’ve tripled the size of our business, while reducing water consumption by 57 percent and greenhouse gases by 34 percent. We’re on a trajectory to reduce greenhouse gas emissions by 80 percent by 2050 to support the United Nations’ climate goals.

As the world’s largest provider of building technologies, we’ve developed energy-efficient solutions for green buildings. Consider the Shanghai International Financial Center, which turned to us to improve the efficiency of its climate control system. Thanks to a customized system that optimizes chiller operations, the site had realized a maximum of 30 percent improvement in chiller plant efficiency.

As a leader of technologies that keep food safe for consumption, we see ways to extend food supplies, while avoiding food waste. Approximately 30 percent of the world’s food supply is wasted each year, much of it due to a lack of refrigeration. Our technologies keep more food fresh than anyone before it reaches the home refrigerator. We set the standard for natural refrigerant technology with our NaturaLINE™ marine container refrigeration system that reduces carbon dioxide emissions 28 percent compared with previous systems.

As a leader in green aviation, we set the standard for fuel efficiency, emission reduction and lower noise with the PurePower® Geared Turbofan™ jet engine. Based on 20 years of research and development, this engine is shaping the future of aviation, reducing fuel burn by 16 percent and noise footprints by up to 75 percent.

Moving forward, we’ll continue leading by example. United Technologies was among the first companies to set sustainability targets. In February, we launched our 2020 Sustainability Goals, which further challenge us to improve environmental performance and employee health and safety.

We’ve proven that sustainable development is possible at United Technologies. We’re optimistic that the world can continue on a path toward sustainability.



Gregory J. Hayes
President and Chief Executive Officer