

Leading to a green future

Environmentally responsible.
Economically sound.

Otis is taking its commitment to the environment to the next level — providing an expanded range of environmentally responsible manufacturing practices and products worldwide.

BENEFITS

Otis is committed to greening the entire lifecycle of its products and processes around the world. That means engineering products that save energy and have a longer life. It means fostering sustainable development and environmentally responsible manufacturing processes. It means leading the way to a greener future

Reduced environmental impact

Greater energy savings

Longer product life

GREEN MANUFACTURING

Over the past 10 years, Otis has worked to minimize its environmental impact by reducing energy and water consumption by 60 percent. Otis continues to build upon these worldwide successes with the opening of its first green manufacturing facility.

Otis Elevator Company TEDA Center

Otis has achieved a major milestone in green manufacturing with the opening of the Otis Elevator Company TEDA Center, located in the heart of China's Tianjin Economic-Technological Development Area (TEDA).

Based on a 1.5 million square foot (140,000 square meter) site, the Otis Elevator Company TEDA Center is dedicated to producing green elevator products such as Gen2™ elevators and energy-saving, high-speed permanent magnet gearless systems.

The Otis Elevator Company TEDA Center was designed and constructed to meet the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) Gold standards. The result is a reduction in site energy consumption of at least 25 percent compared to conventional construction methods and materials.

The advanced technologies incorporated into the center are designed to provide energy savings and environmental benefits throughout the life of the building.

Heating and cooling

- Grass and plants cover a portion of the roof, providing a natural outdoor environment and significantly reducing cooling needs
- Most of the roofing is made from highly-reflective materials to minimize the need for mechanical cooling
- Coated glass provides insulation to minimize solar heating
- Extra shading devices reduce the need for cooling
- Natural ventilation systems reduce the need for mechanical ventilation
- Advanced chillers reduce energy use
- Energy is recovered from the ventilation system with the use of heat exchangers

Lighting

- Increased use of daylight reduces the need for electric lighting
- Daylight sensors turn off electric lights when sufficient natural light is available

Water

- Rainwater is harvested from roofs and combined with recycled water to meet all site irrigation and sanitary needs



Otis Elevator Company TEDA Center,
Tianjin, China

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OTIS

Otis takes its environmental commitment seriously by offering environmentally friendly options for its full range of products. Customers are assured of the safety and reliability Otis is known for, while receiving the added benefits of longer product life, greater energy savings and reduced environmental impact.

GREEN PRODUCTS



(above) State-of-the-art Gen2 elevator system

(right) Energy-saving ReGen drive



Elevators

Gen2™ Systems

The Gen2 machine-roomless elevator system is designed to provide energy savings in a wide variety of applications, from low-rise residential to high-rise commercial buildings.

The Gen2 system is up to 50 percent more efficient than conventional systems. In addition to saving energy, the Gen2 elevator also reduces the system's environmental impact because its patented polyurethane coated-steel belts, gearless machine and roller guides eliminate the need to apply lubrication.

From Spain to China, the Gen2 elevator has been recognized with a number of environmental awards, attesting to its effectiveness as a green solution.

ReGen™ drives

ReGen drives reduce energy usage by capturing the energy normally dissipated as heat during braking. ReGen drives feed this energy back into the building's internal electrical grid for use by other building systems, such as adjacent elevators and lighting.

The result is increased efficiency and a reduction of excess heat in the building. When used in conjunction with Gen2 elevators, ReGen drives deliver a combined energy savings of up to 75 percent.

ReGen drives are now available for a wide range of uses, from low-rise residential to high-rise commercial buildings. The drives are optimized for Gen2 elevators, as well as other machine-roomless and gearless systems.

As the product of choice for green buildings, ReGen drives also reduce peak-power demand and lower overall building operating costs, delivering significant annual savings to building owners and tenants year-after-year.



Trav-o-lator® moving walkway

Escalators and moving walkways

With their reduced power consumption and recyclable materials, Otis escalators and moving walkways have a reduced impact on the environment.

Otis offers variable-frequency drives and intermittent operation packages that not only reduce energy consumption during off-peak times, but also prolong

the lifetime of the product. All exposed, applied finishes use a non-toxic powder coating technique that is environmentally friendly and extremely durable.