

# Eco-efficient Maintenance

KONE's environmental responsibility covers the full life cycle of our products from design and manufacturing to maintaining and modernizing the equipment. Our vision for delivering the best People Flow™ experience requires constant improvements in the efficiency of our solutions, maintenance processes and ways of working.

KONE has always believed in developing innovative and energy-efficient solutions that keep the total cost of ownership low while reducing the overall impact on the environment.

## MEMBERSHIPS/ORGANIZATIONS

- Member, U.S. Green Building Council – first elevator/escalator company member
- Member, Alliance for Sustainable Built Environments in the United States
- Global Level Member, World Business Council for Sustainable Development



## ECO-EFFICIENCY GOALS



To minimize our own environmental impact, one of KONE's targets includes reducing our operational carbon footprint by 3% annually for the period of 2011–2013, utilizing eco-efficient maintenance practices.

KONE provides services that help our customers achieve their eco-efficiency goals in every phase of their building's life cycle.

- Regular professional maintenance ensures the most eco-efficient use of your equipment and the longest, cleanest life cycle, with the smallest environmental impact.
- KONE Care for Life™ helps customers determine when and how to modernize equipment with thorough inspections of the safety, accessibility, reliability, energy efficiency and appearance of a building's vertical transportation equipment.

# Eco-efficient Solutions

KONE's goal is to create a culture of excellence by operating an environmentally friendly, efficient, economical and safe maintenance vehicle fleet using some simple, effective guidelines. These guidelines have resulted in a corresponding reduction in fuel consumption and CO<sub>2</sub> emissions.

## KONE'S GREEN FLEET



- Project O<sub>2</sub>xgyen launched in 2008 to reduce the CO<sub>2</sub> generated by the KONE global fleet
- In 2010, KONE achieved a 4.6% reduction in vehicle fleet carbon footprint
- Switching KONE's fleet vehicle from an E-150 to a Transit Connect improved fuel efficiency from 11 miles per gallon to 18 miles per gallon
- Route-planning technology optimizes technicians' driving routes, reducing emissions
- In the U.S., vehicles are stocked with frequently needed spare parts, reducing warehouse visits and further decreasing emissions. This stock is closely managed to reduce vehicle weight which also improves fuel efficiency.

## KONE'S DYNAMIC SCHEDULING SYSTEM



- Dynamic Dispatching utilizes KONE's Maintenance and Acquisition Planning (MAP) tool which optimizes route planning by taking technician location into account, optimizing response time and reducing technician travel time
- Utilizes wireless technology
- Reduces transport distances
- Average 2010 travel time was reduced by approximately one minute per service order in 2011; with over 90,000 service calls annually, this resulted in about 1500 hours less driving time by KONE technicians.

## KONE'S ECO-SAFE DRIVING PROGRAM



- Service technicians are required to follow Eco-safe driving principles
- Helps reduce CO<sub>2</sub> emissions and overall fleet-related costs
- Protects KONE drivers and other road users

To learn more about KONE's commitment to environmental excellence, visit [www.us.kone.com](http://www.us.kone.com).

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For the latest product information and interactive design tools, visit [www.us.kone.com](http://www.us.kone.com)

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