

LEED Contributions

KONE is leading the way in environmental performance of the building transportation industry. Through KONE’s introduction of the Machine Room-Less elevator technology in 1996, our regenerative drives, standby options and escalator solutions, we have significantly improved the energy-efficiency of our products. Additionally, 90-95% of our elevator and escalator materials are made from easily recycled materials, reducing the strain on our landfills. We are also lessening other usage-related environmental influences demonstrated by our decision to no longer manufacture hydraulic elevators thus eliminating the need for hole-drilling and the use of hydraulic oil.

From an operational standpoint, our two manufacturing facilities and one supply unit in North America are ISO 14001 certified. KONE has also incorporated the Ford Transit Connect, an EPA certified SmartWay vehicle into the fleet program.

KONE strives to develop products, manufacturing processes and operating procedures in ways that not only provide superior products and systems but also take into consideration the environmental impact of our products throughout their life cycle. With our latest innovations in elevator and escalator technologies, KONE is successfully achieving those goals.

Key benefits

- KONE was the first elevator/escalator manufacturer to join USGBC as a national member
- KONE became the first company to utilize regenerative drives in their elevators
- KONE was the first to develop the Machine Room-Less elevator
- KONE was the first to stop manufacturing hydraulic elevators

LEED-NC 2009

Category	Credit	Intent	How KONE Contributes
Energy and Atmosphere	EAc1: Optimize Energy Performance	To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with the excessive energy use.	By using the “Exceptional Calculation Method” the project team can document measures that reduce process loads (elevators/escalators) such as MRL vs. hydros. KONE can provide this documentation using an energy calculation tool.
Materials & Resources	MRc7: Certified Wood	To encourage environmentally responsible forest management.	KONE’s raised wood panels do meet FSC certification.
Indoor Environmental Air Quality	IEQ4.4: Low-Emitting Materials – Composite Wood & Agrifiber Products	To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.	KONE meets this credit requirement by providing urea-formaldehyde free wood panels as a standard offering.
Innovation in Design	IDc1: Innovation in Design	Provide design teams and projects the opportunity to achieve exceptional performance above the requirements and/or innovative performance in categories not specifically addressed by LEED.	Projects installing a Machine Room-Less elevator can achieve an ID credit through showing Process Energy Savings for Elevators. KONE can provide supporting documentation such as a carbon footprint assessment, energy calculations, calculations for the elimination of hydraulic oil, etc.

Sustainable Sites (SS) and Water Efficiency (WE) do not apply to elevators and escalators.

Materials and Resources (MR) credits 3–5 specifically exclude elevators and escalators, CSI Div. 14. MR Credit 6 - KONE standard products do not contain Rapidly Renewable materials. Indoor Environmental Quality (IEQ) credits 4.1–4.2 do not apply to KONE’s installation methods. IEQ 4.3 – KONE does not supply flooring.

LEED-EB O&M 2009

Category	Credit	Intent	How KONE Contributes
Energy and Atmosphere	EAc1	To achieve increasing levels of operating energy performance relative to typical buildings of similar type to reduce environmental and economic impacts associated with excessive energy use.	Elevators and Escalators account for 2–10% of a total building’s energy use and therefore should be taken into consideration.
Indoor Environmental Quality	IEQc2.1	To provide for the assessment of building occupants’ comfort as it relates to thermal comfort, acoustics, indoor air quality (IAQ), lighting levels, building cleanliness and any other comfort issues.	KONE’s Machine Room-Less elevator technology has decreased noise levels compared to a traditional hydraulic.
Innovation in Operations	IO	To provide building operations, maintenance and upgrade teams with the opportunity to achieve additional environmental benefits achieved beyond those already addressed by the LEED 2009 for Existing Buildings: Operations & Maintenance Rating System.	KONE can assist with possible IO submittals. Contact your KONE Sales Rep for more information.

Sustainable Sites (SS) and Water Efficiency (WE) do not apply to elevators and escalators.

Materials and Resources (MR) and most Indoor Environmental Quality (IEQ) credits either exclude elevators and escalators, do not apply or KONE’s products do not meet the criteria.



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