

Grand Avenue Courtyard El Segundo, California



CHALLENGE: The five elevators servicing the 12-floor office building Grand Avenue Courtyard in El Segundo, California, were 23 years old and inefficient with regards to moving people and consuming energy. The office building owners needed a long-term solution that would save on operating costs.

SOLUTION: ThyssenKrupp Elevator Americas performed an energy audit, and, in turn, the owners opted for a Geared to Gearless modernization solution. The modernization resulted in improved elevator reliability, better ride quality, and a 58.5 percent reduction in elevator electricity consumption.

Equipment

After performing a comprehensive technical-analysis audit of the existing equipment, ThyssenKrupp Elevator recommended the following upgrades.

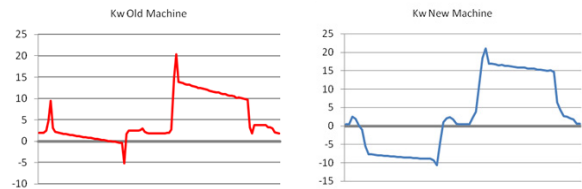
The new permanent-magnet motor increases energy efficiency because high-intensity permanent magnets are used instead of drawing from an external electrical source. This also eliminated the need for an additional motor to run the DC-producing generator.

	OLD EQUIPMENT	UPGRADES
Machines	Geared	Gearless
Motors	30 HP AC	23.3 HP AC
Controllers	Solid State	TAC 50-04
Roping	1:1	1:1

Energy Savings

kW Reduction: **61.9%**

OLD MACHINE AVG: 595.9 KW NEW MACHINE AVG: 227.03 KW



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