

KONE EcoSpace™

A cost-saving, cleaner alternative to hydraulics



PROJECT

Improve performance of 16 existing elevators in a residential apartment complex

CLIENT

EOS twenty-one
Alexandria, Virginia

SEGMENT

Residential

TIMELINE

Spring 2005-Spring 2006

CONSTRUCTION MANAGER

Bozzuto Construction

CONSULTANT

David Mirch of DMT LLC

PRODUCT SOLUTION

16 EcoSpace gearless traction elevators

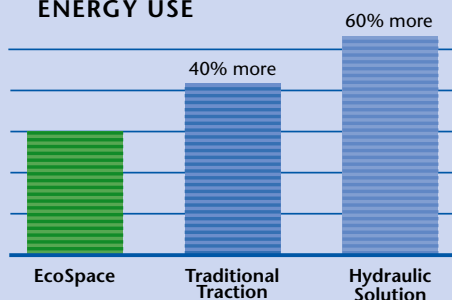


“EcoSpace provides a much better alternative to conventional hydraulic applications. Longevity is increased and liabilities are reduced by utilizing EcoSpace by KONE. It truly is the ideal solution in today’s marketplace.”

David Mirch, *Elevator consultant*

the savings

ENERGY USE



the challenge

- Update 16 hydraulic elevators in 20-year-old residential complex
 - Improve performance
 - Ensure safety
 - Enhance aesthetics
- Add to facility’s value
- Reduce life-cycle costs
- Install environmentally friendly system
- Create better impression for prospective tenants

the KONE solution

- Replace hydraulic elevators with new KONE EcoSpace elevators
 - Gearless technology
 - Improved leveling that meets or exceeds safety requirements
 - New cab interior, fixtures and door finishes
 - Minimizes life-cycle costs, using 60 percent less energy than a hydraulic elevator
 - Oil-free system that will not contaminate the area or water



“Because I have actually carried tools and worked more than 27 years in all facets of the elevator business, I can say without reservation that EcoSpace provides a much better alternative to conventional hydraulic applications. Longevity is increased and liabilities are reduced by utilizing EcoSpace by KONE. It truly is the ideal solution in today’s marketplace.”

David Mirch, *Elevator consultant*



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the client’s situation

The owner of EOS twenty-one in Alexandria, Virginia, wanted a reliable, safe upgrade to 16 hydraulic elevators in the residential complex to improve elevator performance. In addition, the owner requested a solution that would add to the value of the complex and increase tenants’ satisfaction.

Updates to the elevator system needed to accommodate the existing hoistway structure while improving performance, safety and aesthetics.

Elevator consultant Dave Mirch learned that by using the existing hoistways, he could install a new elevator system: KONE’s EcoSpace – a gearless traction elevator. He was intrigued that this solution doesn’t utilize oil and produces no fumes or potential water contaminants. Additionally, he discovered that the EcoSpace fit into the existing hydraulic hoistway and did not require a machine room, which frees up space in the existing building. Mirch wanted to see this design for himself, so Sean Zoll, a KONE sales representative, arranged several site visits for Mirch and the apartment owner’s representative.

the KONE achievement

Mirch decided that EcoSpace, with its reliable AC Gearless EcoDisc motor, would provide the best solution. Compared to a hydraulic system, EcoSpace would involve Machine Room-Less (MRL) design that saves space and building cost.


In addition, Mirch valued the way EcoSpace fit so well within the existing hydraulic footprint to deliver a smoother, quieter ride with faster floor-to-floor times than hydraulic-driven transportation. Another EcoSpace feature that appealed to the owner was improved leveling, which provided more accurate stops at each level and enhanced safety.

“The solution was perfect for the customer,” said Sean Zoll, KONE sales representative. “We talked to the owner, consultant and the asset management group, and determined the advantages involved with each available option. The energy-saving benefits of the EcoSpace system are a huge factor. Our equipment is going to save the customer money on a monthly, yearly and life-cycle term.”

the bottom line

EcoSpace uses 60 percent less energy than a conventional hydraulic system which contributes to about \$1,000 savings in operating costs annually per elevator.



 KONE’s product solutions provide innovation, performance and sustainability. **Logical Solutions** now and for the future.

