Compare the Costs and Benefits

Costs

Geared Elevators

- Yesterday's technology
- Machine-geared technology
- Old-fashioned relay logic controller and hundreds of moving parts
- Worm and crown gear housing leaks oil and elevates energy costs and degrades ride performance with vibration
- Only 65–70 percent of energy supplied is harnessed; the loss in energy creates heat, increasing air conditioning costs
- Carbon brushes create dust that contains pollutants and require frequent replacement
- Requires petroleum-based lubricant
- Can lead to frequent shutdowns and may require increased service calls

Relay Logic Control

- Obsolete technology
- Hundreds of moving parts often need replacement
- Electromechanical relays produce heat
- Unreliable elevators aggravate passengers and building owners
- Large environmental footprint
- Leveling and positioning controlled by mechanical means, which allows for alignment issues
- Can lead to frequent shutdowns and may require increased service calls

Motor Generator

- Carbon brushes create dust that contains pollutants and require frequent replacement
- High heat and British thermal unit (BTU) output increase air conditioning needs
- Energy is wasted even when the elevator is idle
- Can lead to frequent shutdowns and may require increased service calls

Benefits

Machine-Gearless Technology

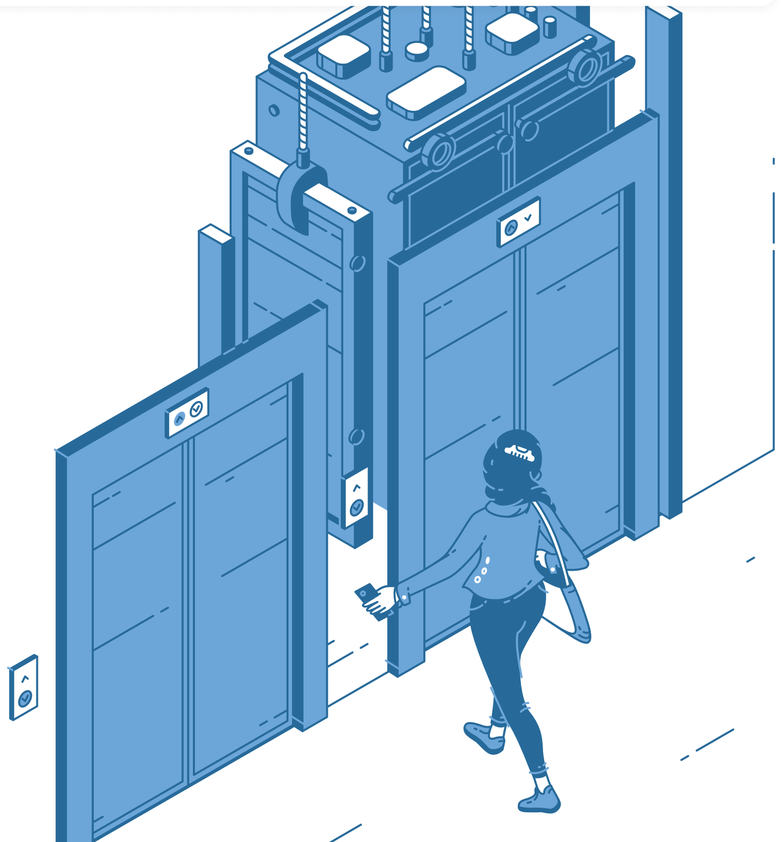
- Advanced microprocessor controller with diagnostic capabilities
- Permanent magnet AC motor only runs when elevator is in use and significantly reduces energy consumption
- Cleaner system eliminates carbon dust
- Petroleum-free machine room
- Reduces heat, requiring less air conditioning in machine room
- Direct drive technology maximizes energy efficiency
- Smooth ride with minimal vertical vibrations
- Better control and floor leveling
- Dual brake system provides additional safety features

Controller

- Advanced technology, including micro-processor controllers, increases reliability
- Adjusts to high-traffic-demand buildings via technology that comprehends changes in patterns
- Self-diagnostics reduce downtime
- Quicker floor-to-floor times
- Load weigher technology eliminates stops when elevator is fully loaded
- SOS System predictive maintenance technology reduces downtime via real-time diagnostics

Sustainable Regenerative Drives

- Replaces motor generator
- Harnesses unused energy captured for reuse in the building
- Reduces heat, requiring less air conditioning
- Consistent performance
- Less space required
- Smaller environmental footprint



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