



Example Case Study

Average Logistics Facility

Cam manages a shipping and fulfillment center in the New England region of the United States. He has been tasked with finding tangible projects to reduce the carbon emissions from his facility as well as annual operating costs.

Cam and his team have already taken initial steps to improve their sustainability footprint including moving to LED lighting, more closely managing HVAC needs, and considering purchasing renewable energy credits. Cam has performed an energy audit on the facility and has determined that more than 60% of the electricity is being consumed by the 500 motors that are used for package sorting and moving products along conveyors.

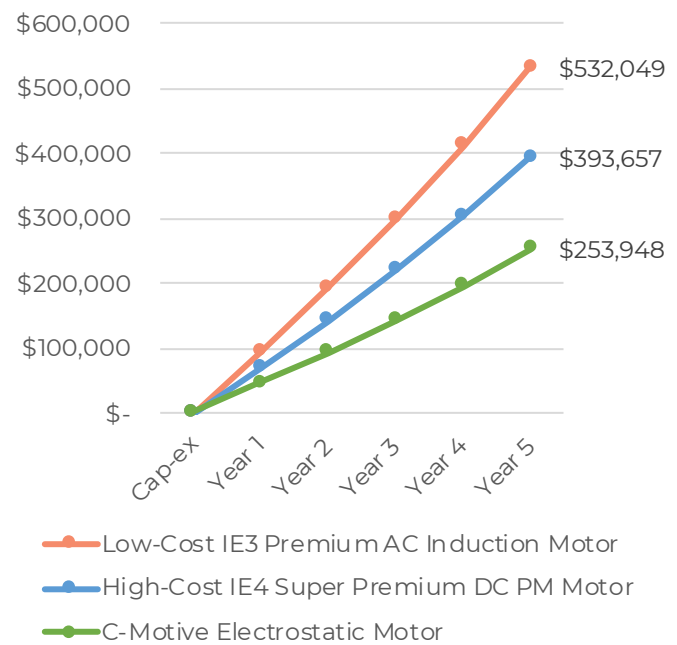
With a facility that operates 90% of the year, there is significant incentive to look for more efficient motors to use across the operation.

Replacing traditional magnetic motors with C-Motive machines will deliver cost savings in the first year of operation and cut carbon emissions in half. C-Motive machines are specifically designed for the needs of material conveyance applications.

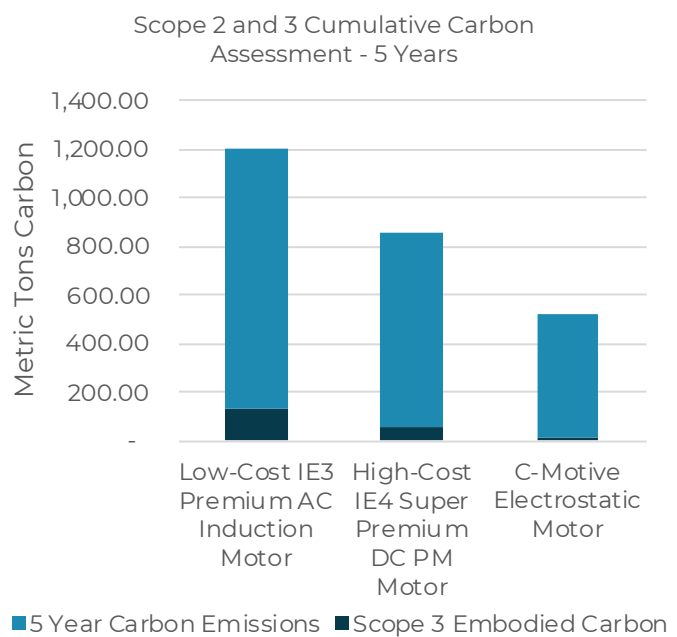
Annual Savings with C-Motive

		Low-Cost IE3 Premium AC Induction Motor	High-Cost IE4 Super Premium DC PM Motor
Year 1 Operating Costs	Savings	\$49,089 USD	\$24,738 USD
	% Change	-53%	-36%
Heat	Savings	322,283 kWh	167,542 kWh
	% Change	-99%	-98%

5 Year Cumulative Cost Totals



Carbon Emissions





Example Case Study Agricultural Fans

Claire owns and operates a mid-sized dairy farm in the north Midwest of the United States. The main barn has 50 fans that run 99% of the day in order to ventilate the barn for the health of the animals and the employees. These fans are run by oversized motors and are belt driven. Over time, these belts slip and stretch, causing energy efficiency to drop over time, and costing Claire more each month.

In order to maintain efficiency, Claire has an employee that changes the belts on every fan drive annually at a time of 20 minutes per fan.

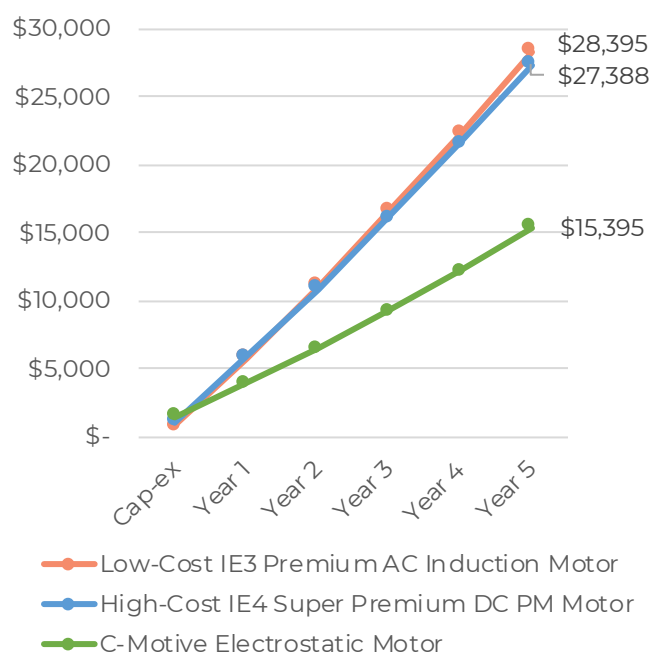
Claire is interested in protecting her bottom line in the face of high energy cost inflation. Since motors are major energy users, any opportunity to save energy is of the utmost importance to the future of her operation.

C-Motive machines deliver their peak efficiency at low speeds, which means the fans can be direct drive and belt-free. Claire can now eliminate belt maintenance and enjoy higher energy efficiency, saving on total operating costs.

Annual Savings with C-Motive

		Low-Cost IE3 Premium AC Induction Motor	High-Cost IE4 Super Premium DC PM Motor
Year 1 Operating Costs	Savings	\$747 USD	\$520 USD
	% Change	-24%	-18%
Maintenance	Savings	\$1,875	

5 Year Cumulative Cost Totals



Carbon Emissions

