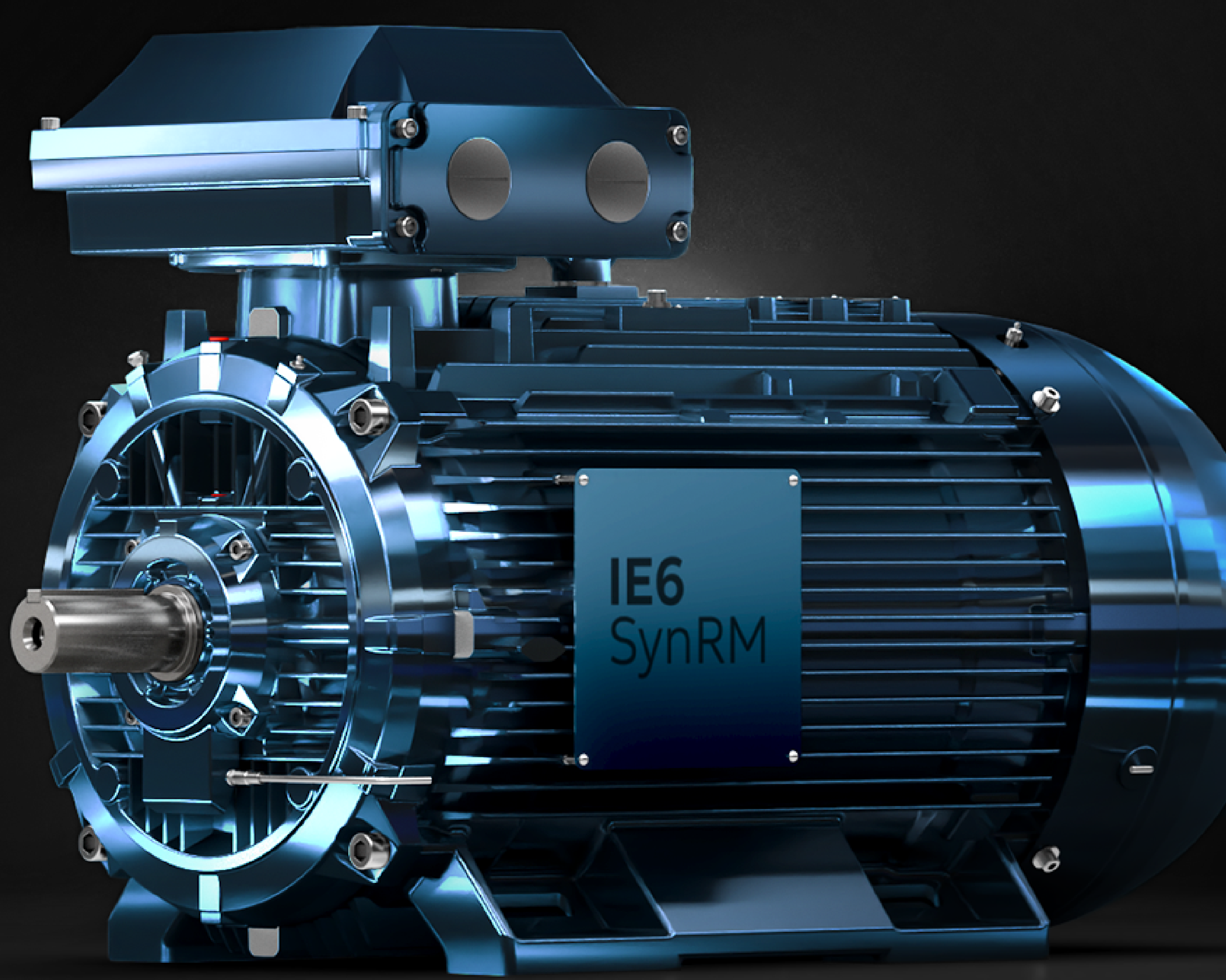


HYPER-EFFICIENCY SYNRM

Next Leap in Motor Productivity
and Sustainability

IE6



+300m

motor-driven systems
operated worldwide today

Industrial motor
systems account for

~60%

of industrial electricity demand

They represent

~25%

of global electricity demand

Boosting efficiency
can return up to

10%

of electricity back into the grid
– enough to power 300 million
U.S. homes.

Total cost of ownership over 20 years

ENERGY IS THE REAL COST OF A MOTOR

Across a typical 20 year lifecycle,
97% of a motor-drive total cost
comes from the electricity it
consumes. With just 2% coming
from the purchase price, and 1%
from maintenance, improving
efficiency becomes the most
powerful financial lever.

97%

of lifetime cost = energy

2%

purchase

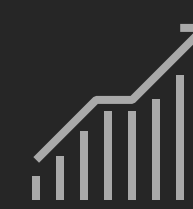
1%

maintenance

Efficiency = your biggest cost lever

THE TOP 5 REASONS

TO CHOOSE IE6 SYNRM MOTORS & DRIVES



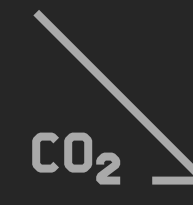
01

Unrivalled energy efficiency



02

Fast payback and ROI



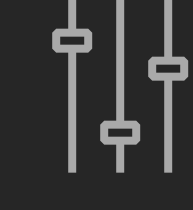
03

CO₂ reduction and ESG compliance



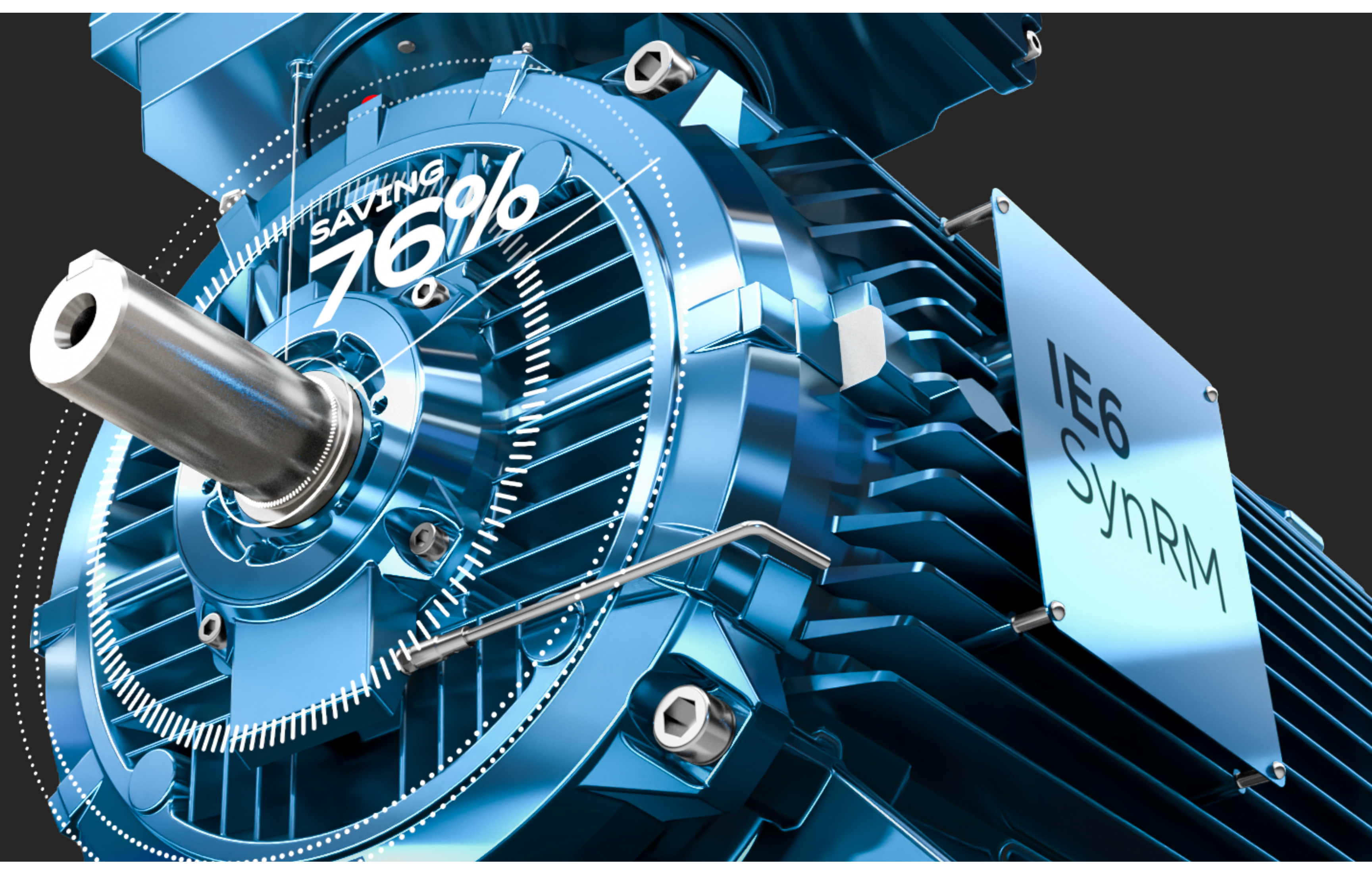
04

Easy drop in replacement



05

Lower maintenance and
increased reliability



IE4 VS IE6 SYNRM AND DRIVE

Selecting IE6 with massive, long-term impact

LIFETIME SAVINGS FOR ONLY ONE 110KW MOTOR

€51,200

energy savings over 20 years

92,200kg

CO₂ reduction over 20 years

21.5

gasoline-powered cars removed for one year –
equivalent impact

~8 months

to achieve ROI

Up to 76%

**Additional energy
savings end CO₂
emissions avoided**
when moving from IE5 to IE6

Calculation based on a 110kW motor
application, 8760h running time at 75%
power, energy cost assumed 0,2€/kWh

CEMENT PLANT SIMULATION REAL WORLD POTENTIAL GAINS

IE6 SynRM transformation at a large cement plant

A large cement plant producing up to 3 Mtpa,
upgrading from IE2 motors to IE6 SynRM motors and
drives, can deliver impressive savings:

from 93.30 Gwh to 67.65 GWh

annual energy use drops

27.5%

energy reduction every year

>€2 million

saved annually (based on €0.084/kWh)

€40 million

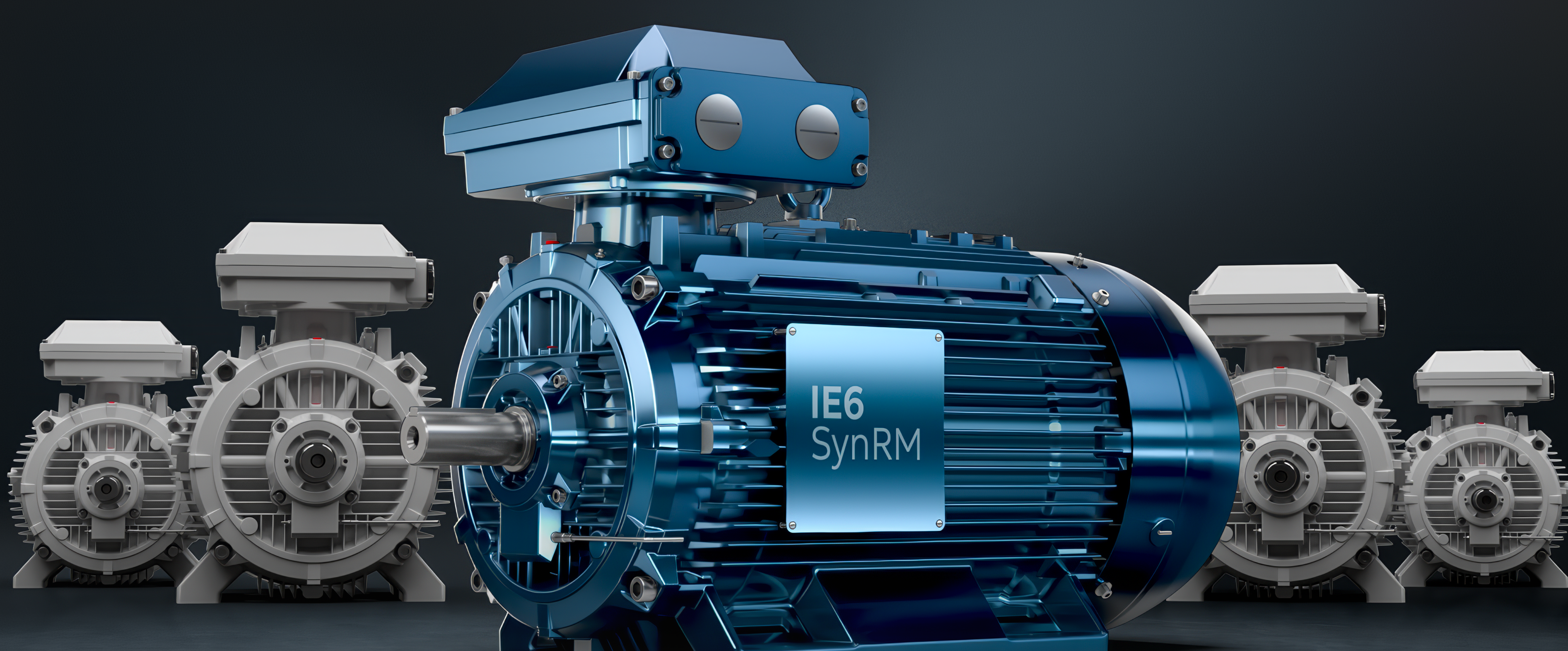
lifetime savings over 20 years

Significant CO₂ reduction in a sector generating

~7%

of global CO₂ emissions

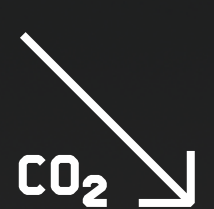
SUSTAINABILITY BUILT INTO EVERY STAGE OF THE MOTOR'S LIFE



No magnets or rare earth metals use



98% recyclable materials



Low carbon and recycled copper reduce
embedded emissions by up to 200 kg CO₂
per 75 kW motor.



Part of ABB's EcoSolutions™ portfolio with
third party verified Environmental Product
Declarations (EPDs)



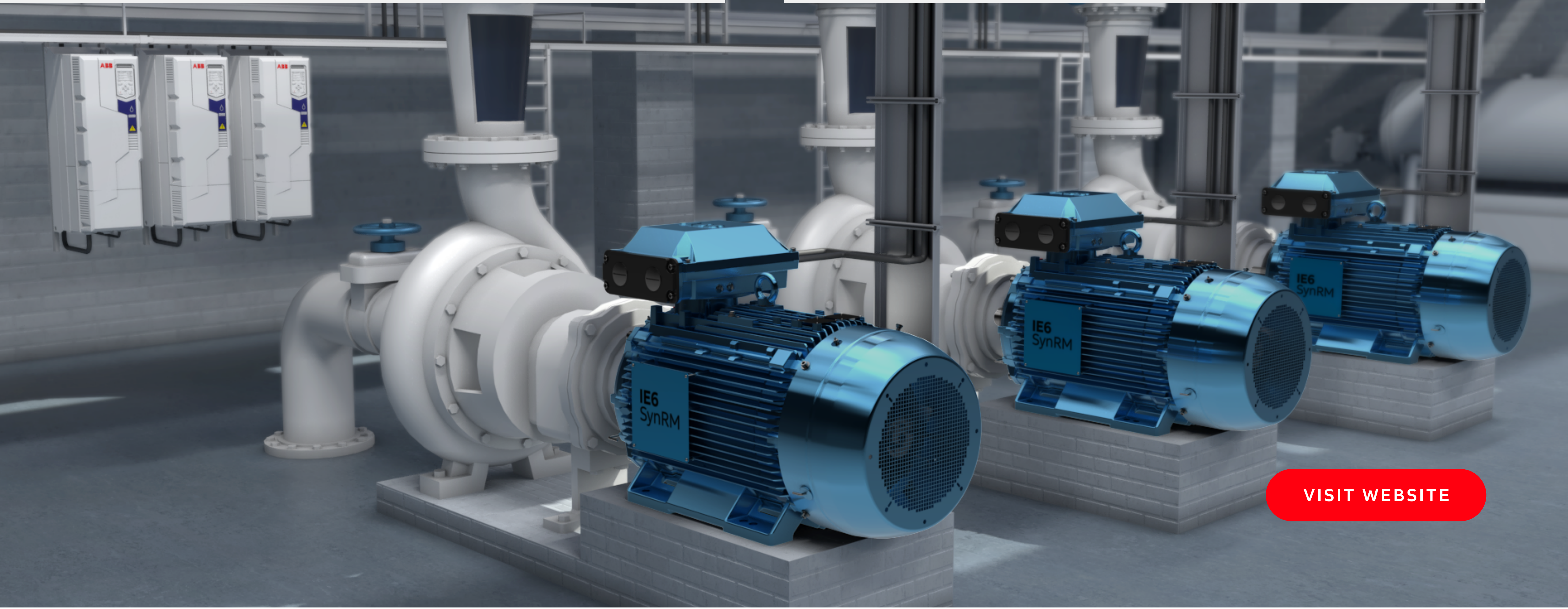
Seamless integration: IEC dimensions
enable quick replacement with no
equipment changes.



Industries: Cement, Mining,
Marine, Waste and wastewater,
HVAC, Data Centers



Applications: Pumps,
Compressors, Fans



VISIT WEBSITE