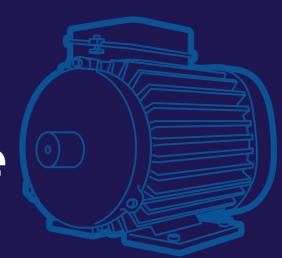
Successful implementation of the ErP Directive



endeavor to save energy in production systems and reduce CO₂ emissions in the industrial sector. But there is still great energy-saving potential, particularly in electrical drive engineering. This potential can be most effectively exploited in the intelligent use of automation technology combined with motor starters or variable frequency drives. The key factor here is select the

Energy efficiency is a hot topic. In recent years, politics and business have made every

right solution for each application.

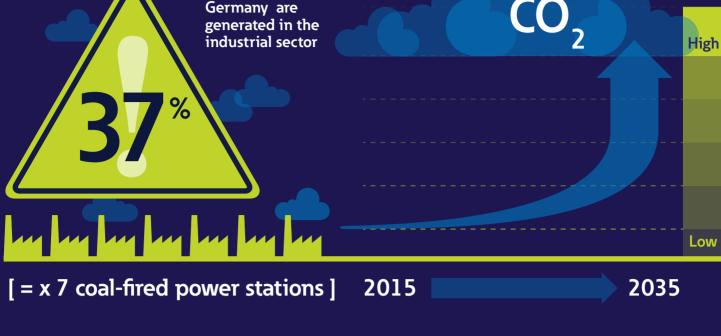
All information illustrated on this infographic can be found in the Eaton white paper:

Germany has made every endeavor to save energy in production systems and reduce CO₂ emissions in industry

Successful implementation of the ErP Directive-Reducing losses with speed control

54% of industry is responsible for final energy demand in industry around 30% of all final energy comes from the goods-producing industry consumption in the country

> ... of all greenhouse gas emissions in



ZVEI, the manufacturers' association, estimates that German process and manufacturing industries alone

billion

kilowatt

hours

could save:

This represents a big opportunity for ALL businesses within manufacturing industries Electrical motors: Industrial application & energy consumption

billion in annual energy costs

Within industrial manufacturing, electrical drives account for two-thirds of electrical energy consumption

Motor costs during motor lifetime

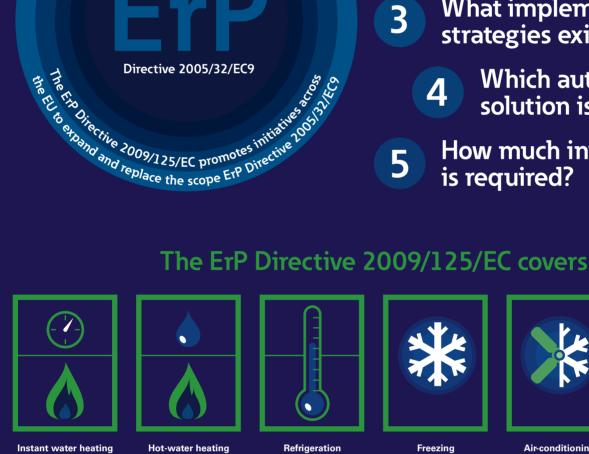


How can companies 2005 most effectively save?

3

ErP Directive expansion initiative

Maintenance costs



2009

- Which automation
 - solution is best? How much investment 5 is required?

What implementation

What are the new

requirements?

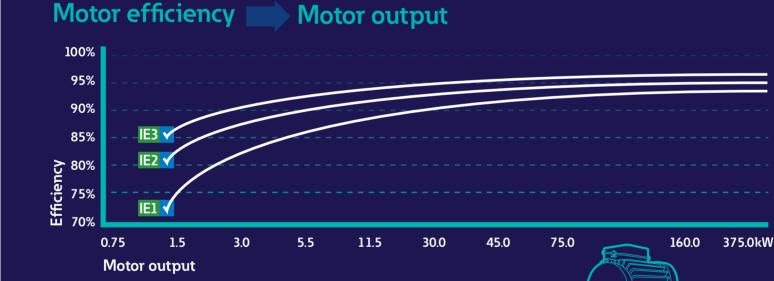
strategies exist?

Maintenance costs

Air-conditioning

Compressors

Freezing



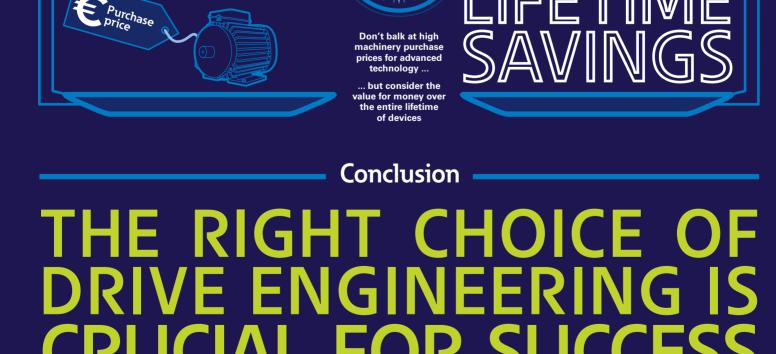
IE3 🗸 IE2 🗸 م ح 2011 2015 2017 All 0.75–375 kW motors must be IE3 compliant. Only variable speed IE2 motors. All motors no less efficient than All 7.5-375 kW motors must be IE3 compliant.
Only variable speed IE2 motors. the IE2 efficiency level Ever-increasing automation technology requirements Total **Productivity** Green billion market billion market increase increase 2011 2020 Increase in green products

Save energy... but how? 3% Speed control

General system optimization

Motor efficiency

The bigger picture



MEANS LONG-TERM SAVINGS

Eaton has over 100 years of experience in innovating its products so you can turn regulatory changes into business opportunities

> Reliability **Efficiency**

Safety

Embrace energy efficiency today. Open a world of opportunity tomorrow.

Powering Business Worldwide

Successful implementation of the ErP Directive-Reducing losses with speed control

Download white paper