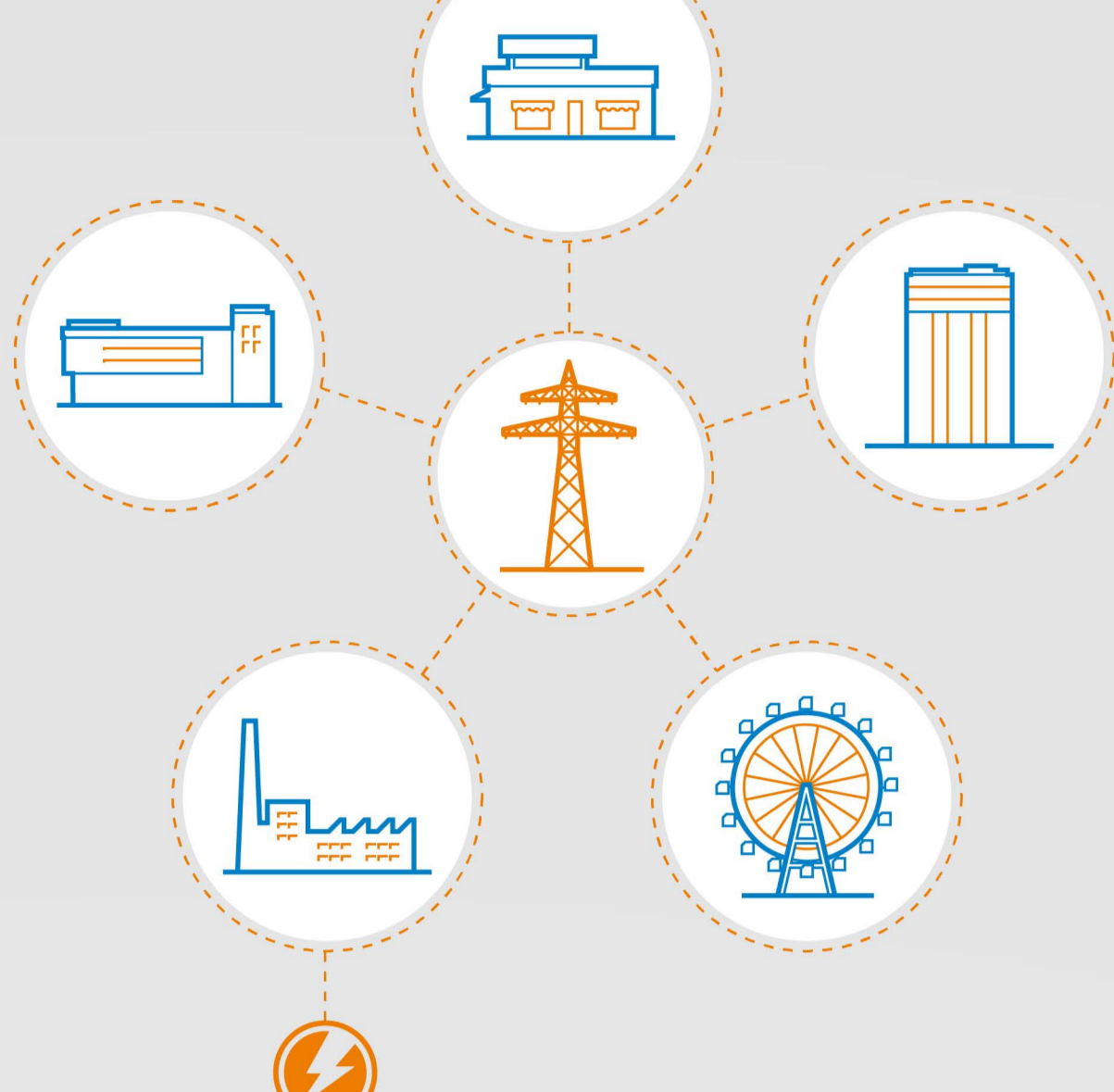


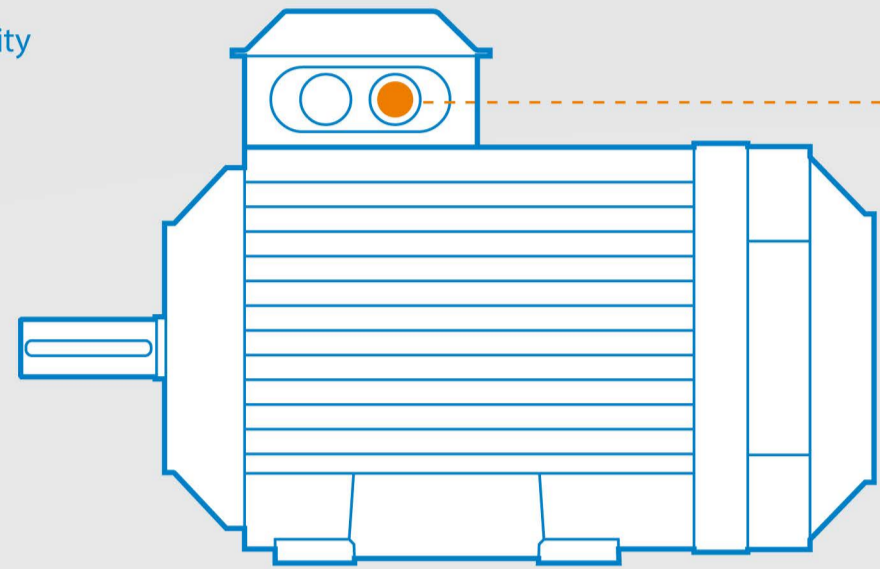
## What is an AC drive?

**Motors move and run basically everything**

we need for business or pleasure. And all these motors run on electricity.



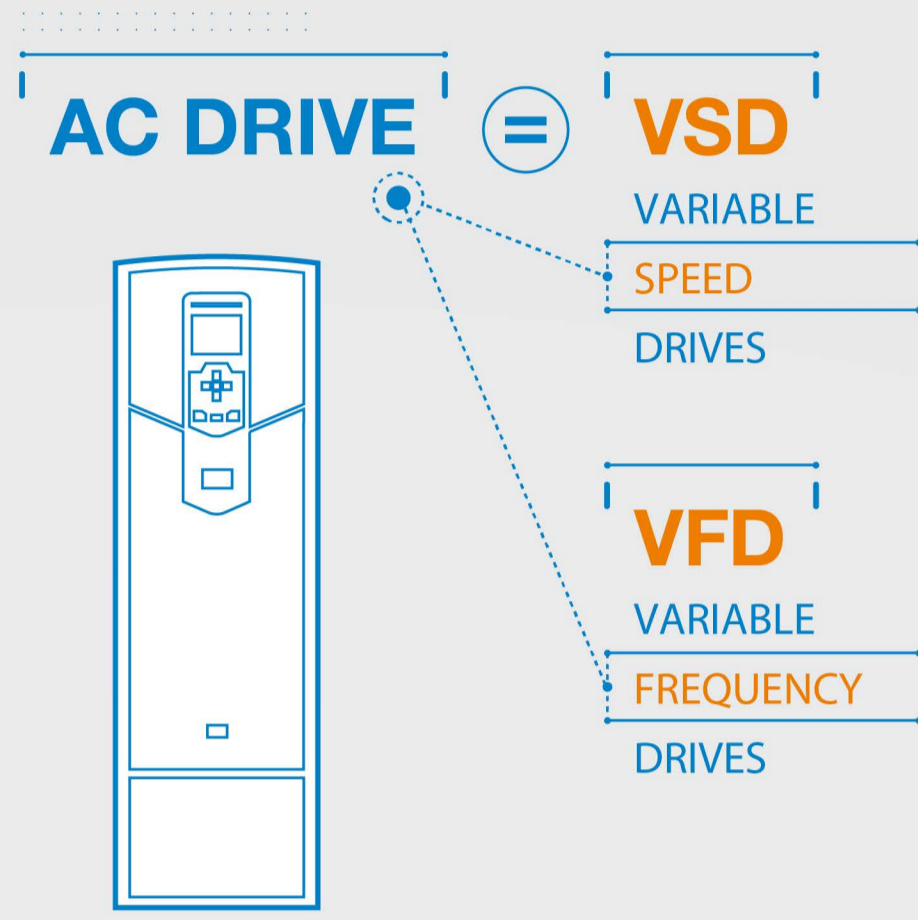
- Electricity
- Torque
- Speed



**Making sure the motors use electricity efficiently**

helps you save energy and reduce costs. So how can you do that?

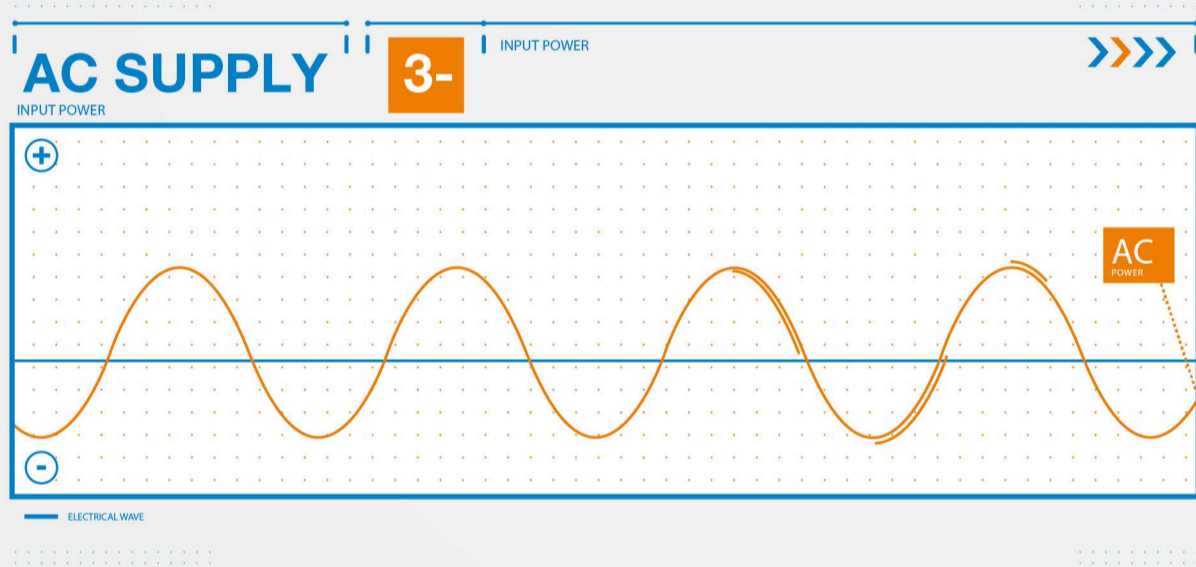
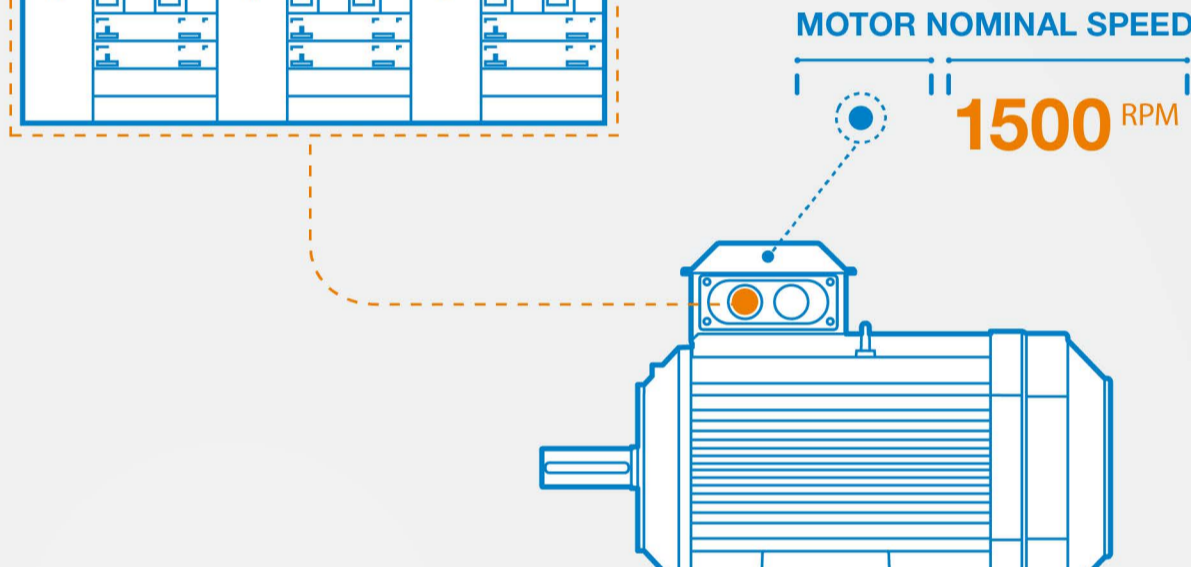
You can do that with **AC drives**



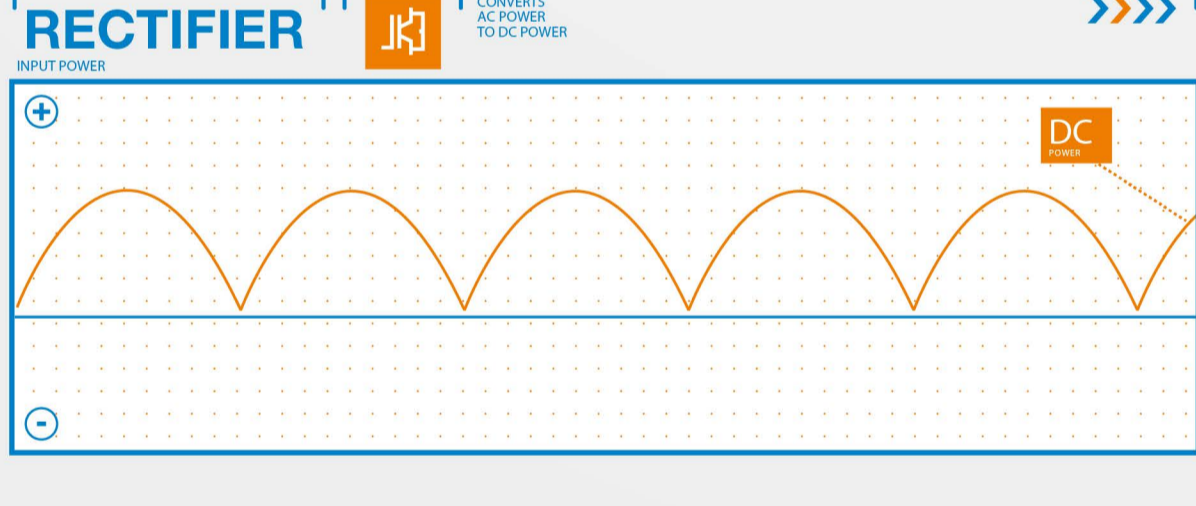
This means the motor uses only the electricity needed – **helping you save huge amounts of energy.**

Unlike mechanical controls (like throttles), **drives vary the electrical frequency and voltage** fed to the motor.

How do drives convert **fixed frequency and voltage** power into **variable frequency and voltage** power for the motor?

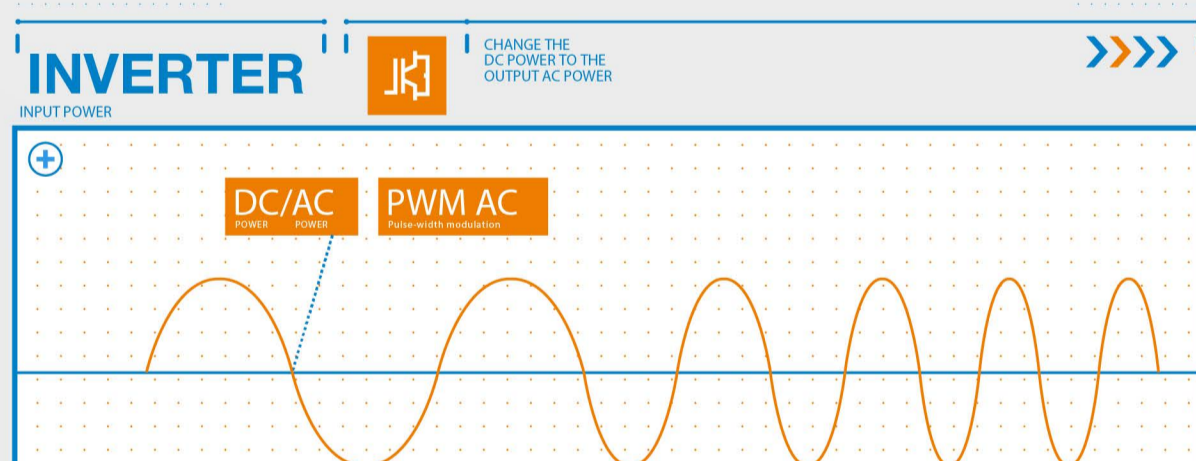
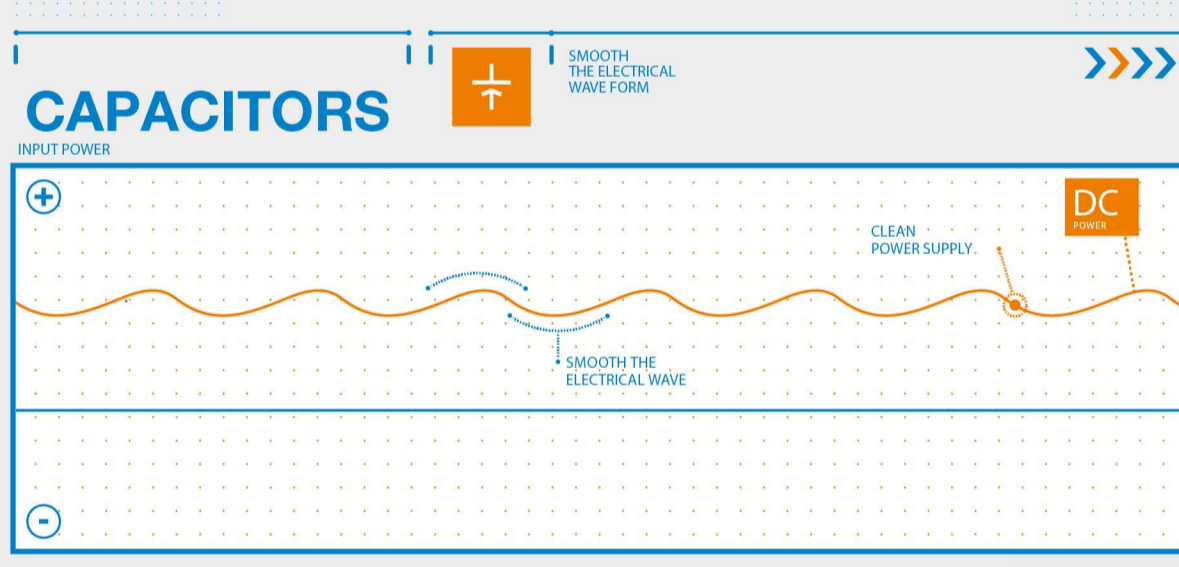


Incoming **3-phase AC power**



is fed into a rectifier that converts it to **DC power.**

DC power is fed into capacitors, smoothing the wave and **producing a clean DC supply.**

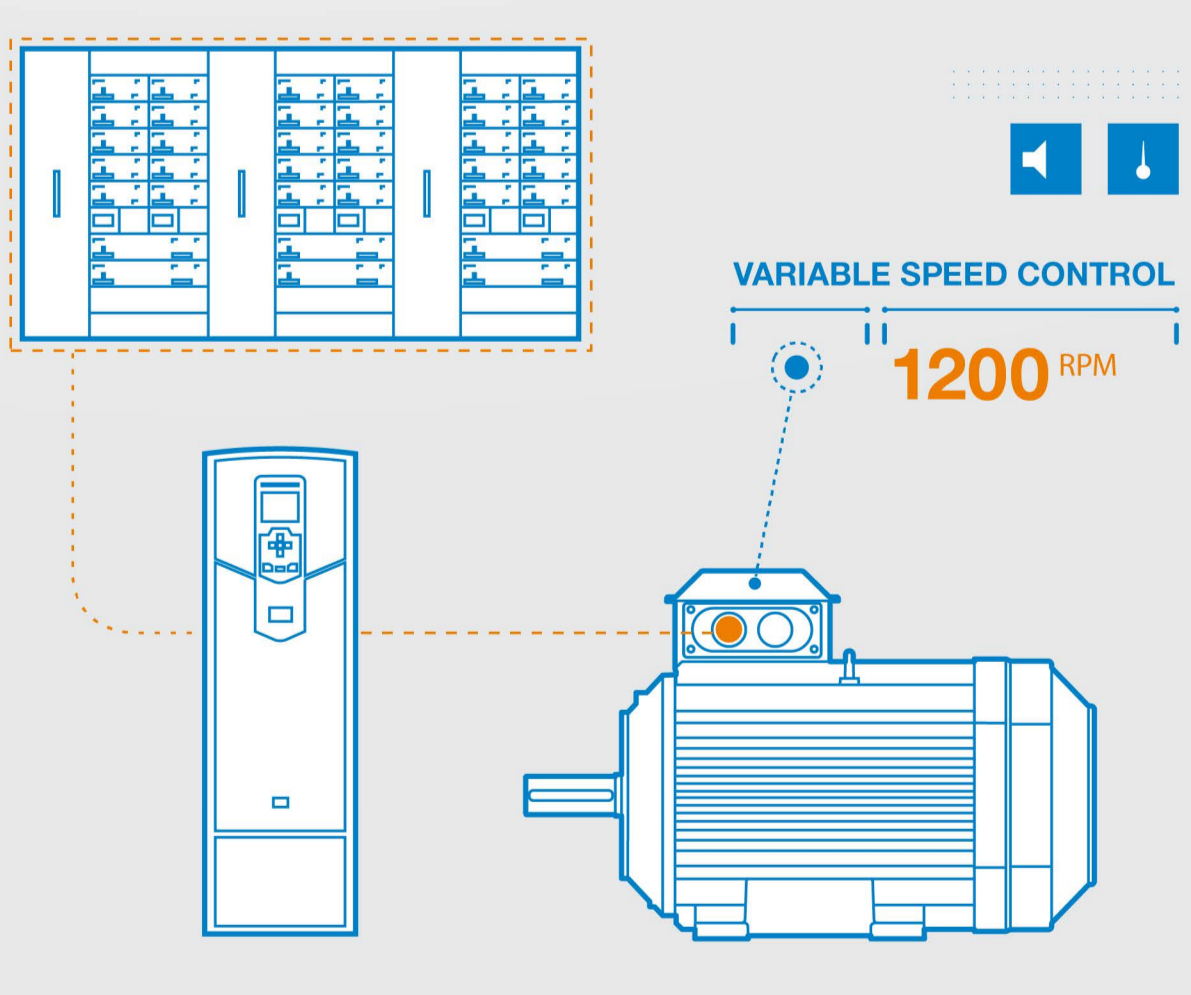


The drive calculates the motor's required voltage and current. DC power is then fed into an inverter producing AC power at the **precise voltage and current needed.**

The drive **continuously calculates and adjusts**

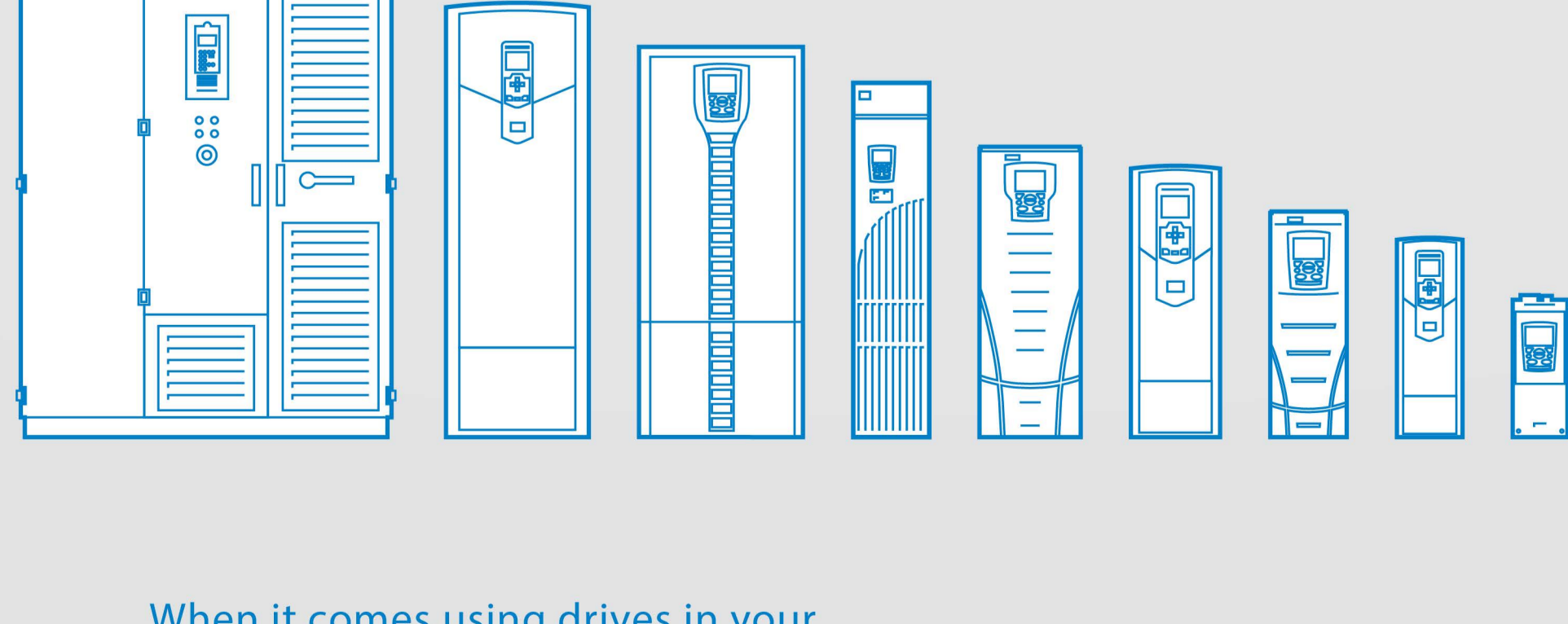
the frequency and voltage providing only the power the motor needs.

This is how you can **save large amounts of energy.**



And that's why we have developed a **wide range of drives**

to work with your application, no matter how small or large.



When it comes using drives in your business, understanding drives use and reducing CO2 emissions, **everything counts.**