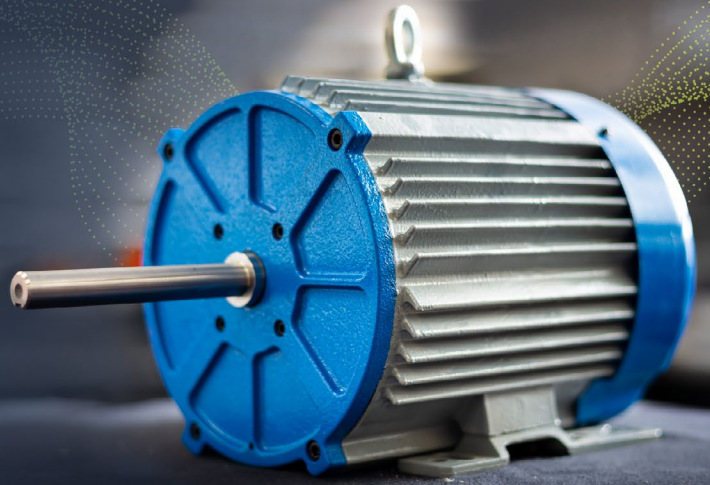




Turntide Smart Motor System™

- + More efficient
- + More intelligent
- + Ultra reliable
- + Simple drop-in solution
- + Standard NEMA dimensions
- + No rare earth materials



Reduce HVAC energy usage by an average of

64%

with Turntide's Smart Motor System

Optimizing your HVAC efficiency is a high-impact energy conservation measure that delivers immediate and long-term savings

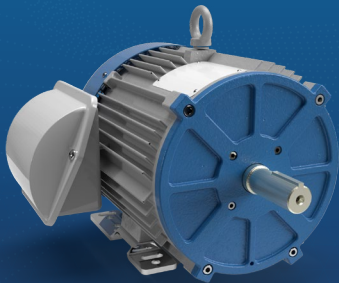
40% of energy used in commercial buildings is from HVAC equipment

30%+ of the energy that goes into powering HVAC is wasted in the average commercial building, according to the U.S Department of Energy

Source: U.S. Department of Energy

What is the Smart Motor System?

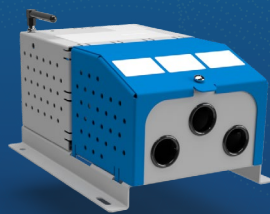
Advanced device physics and intelligence come together in a Smart Motor System that optimizes your HVAC energy usage



Motor

Our patented high rotor pole switched reluctance motor with advanced device physics runs more efficiently and reliably.

Available for 1-10 HP



Motor Controller

The controller helps the variable-speed motor work at optimized efficiency across a broad range of speeds, control customized sequences of operation or application-specific functionality, and protect the system from damage or failure.



Turntide App

Web and mobile apps make remote monitoring and management of your building systems and equipment easy, with notifications, troubleshooting tools, and the ability to make service requests anytime, anywhere.

The Smart Motor System

13%

The ultimate energy conservation measure

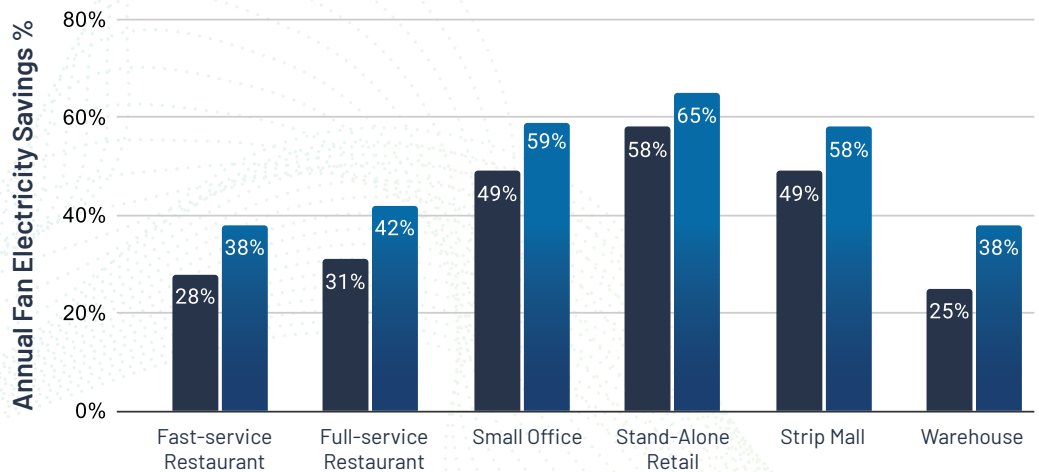
The Smart Motor System provides an HVAC setup that is more efficient, more intelligent, ultra reliable, and simple.

Better performance than VFD retrofit

Source: NREL Study

The Smart Motor System Outperforms VFD

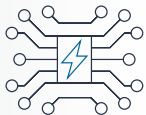
Annual Fan Electricity Savings from Motor Retrofit



■ NEMA Premium Induction Motor with VFD
■ Turntide Smart Motor

[View NREL study](#) →

Source: NREL Study



More Efficient

Highly Efficient Design

Minimal energy loss due to optimal rotor/stator design and control strategies over conventional switched reluctance motors

Highly Versatile

Software provides motor agility over varying loads and speeds



More Intelligent

24/7 Runtime Monitoring

By monitoring speed and torque that helps identify equipment health and potential fault conditions, you have insights to remotely commission and optimize motor and HVAC to always run as efficiently as possible.



Ultra Reliable

Reduced Failure Modes

Bobbin stator coil design with uniform windings reduce failures in comparison to induction motors by 10%

Optimized for Multispeed

With all Turntide components designed to work together, it works as reliably at higher and lower speeds



Simple

Hassle-Free Install

Retrofits and installations performed by experts from Turntide or our network of trusted FSP partners

Proactive Insights

Built-in fault detection and alerts enable preventative maintenance

Proven Results



Grocery store Sprouts

75%

annual HVAC energy reduction

[View case study](#) →



Retailer Wilko

60%

total energy reduction

[View case study](#) →



Auto manufacturing plant

75%

annual HVAC energy reduction

Intelligence, Automation, and Control

Turntide for Buildings brings together the Smart Motor System, Smart HVAC, and Smart Building Operations

Smart HVAC

- Monitor and control HVAC and Smart Thermostats with BACnet integration
- Smart notifications via text and email for smart routing, prioritization, and escalation
- Troubleshooting tools like trends, charting, and playback features

Smart Building Operations

- Building equipment management including metering, lighting control, monitoring indoor air quality (IAQ), and temperature monitoring in refrigeration and coolers
- Visibility and intelligence with customized reports you can create for compliance, executives, field teams, and more
- Remote management and service support with intelligence, smart notifications, and alerts to prevent downtime



Motus Power is dedicated to providing cutting-edge, turnkey energy-saving solutions on a national scale. We strive to set industry standards in quality, efficiency, and integrity. The market for carbon reduction is evolving quickly. With the experience of Motus Power and its solutions, we can build an energy conservation strategy for your company that will give you a quick return on your investment while making strides to achieve your ESG goals. With new alternative clean energy solutions on the market, Motus Power will help you make confident decisions in your carbon reduction and sustainability strategies.

Contact Us:

sales@motuspower.com
www.motuspower.com

Want to learn more?

Visit our website turntide.com

Talk to our team sales@turntide.com

Read our [Quick Reference Guide](#)

TURNTIDE TECHNOLOGY FOR SUSTAINABLE OPERATIONS

Our breakthrough technologies accelerate electrification and sustainable operations for energy-intensive industries.

Turntide Technologies | 1295 Forgewood Avenue, Sunnyvale, CA 94089

