



What is the most effective and energy-efficient method for controlling pumps, fans, and compressors?

Go green in fewer strokes with Siemens variable frequency drive technology

While electric motors represent over 65% of the total industrial power demand, approximately 70% of the installed motors today do not use optimal motor control – bad news for a greener world. The good news is that almost every company has the potential to tap into enormous energy savings by using Siemens variable frequency drives (VFDs) for motor control on pumps, fans, and compressors. The energy savings potential is substantial – in some cases up to 70%.

But that's just the beginning of the game. Energy-efficient VFD systems can assist you in a number of other ways. They help to reduce production costs, improve product quality, and ultimately lower CO₂ emissions.

In energy-intensive industries where pumps, fans, and compressors are mechanically controlled (vanes, throttles, and valves), switching to VFDs has immediate effects. With

operating costs decreased significantly, the return on investment can be achieved within a few months for many applications.

Concerned about initial capital investment?

Despite the savings potential when using drives technology, it is usually the initial investment that is of most concern.

Let Siemens help you.

Now a creative and flexible energy savings finance program provided by Siemens Financial Services allows your initial outlay to be recovered within a few months. Combined with federal, state, and local energy tax incentives, never before has it been so easy to take full advantage of Siemens VFDs. A much greener future is down the road – a greener world, and the ROI kind of green that results from inherent energy savings.

Drive to a greener future

www.usa.siemens.com/energysavings

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Buy new or upgrade?

There are savings potential to be realized in almost every industry. The decision on whether to introduce a completely new concept or upgrade your existing equipment must be made on a case-by-case basis. With new systems, it is relatively easy to calculate how quickly the additional costs for an energy-efficient drive system will be recovered.

When considering an upgrade, it is important to look at the application. The more energy-intensive the application or the longer a motor operates at partial load, the faster an energy-efficient VFD system will pay off.

Siemens SINAMICS variable frequency drives for pump, fan, and compressor applications

The Siemens family of VFDs features a wide variety of popular ratings designed for pump, fan, and compressor applications. In the low-voltage range these include the SINAMICS G110, G120, and G150, as well as the MICROMASTER 420, 430, AND 440 series. Siemens drives are equipped with an array of innovative functions for optimum motor control. What's more, our all-new Intelligent Operator Panel (IOP) significantly simplifies operator control.

For higher horsepower applications – above 800 hp – we offer our SINAMICS S150 and S120/S120CM solutions.

Siemens offers some of the most efficient VFDs in the industry. Efficiencies can be as high as 98% with our SINAMICS G150 product. Additionally, generous motor cable length allowances make retrofitting easy.



Unlock the real potential with SinaSave

SinaSave, our free, downloadable software tool allows you to calculate your energy savings potential and to see how quickly you can realize a return on investment.

Based on the key parameters of your system input into SinaSave, the tool calculates the potential savings for your specific application. The payback period is then derived from the total monthly savings of your application and the procurement and installation costs incurred. Often it is just a few months.

Contact your local Siemens representative today to put you on the path to energy savings.

Check your primary processes

- Does this process use mechanical flow control (vanes, throttles, valves)?
- Do your motors operate uninterrupted for long periods of time?
- Do you have a number of motors operating at partial load?
- Do you have processes where large loads are decelerated frequently?

Look at your secondary processes and facilities equipment

- Does your facility require air handling (exhaust/ventilation)?
- Does your facility require the use of pumps?
- Does your facility use chillers for cooling?
- Do you have other secondary processes where motors are used (conveyors, belts, etc.)?
- Can you shutdown any secondary processes during weekends and/or holidays?

Look at your electric bill

- Are you ready to reduce your monthly electric bill?
- Are you paying for reactive power?
- Have you considered an energy use audit for your facility?

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