



# FESCO Direct LLC

New & Used Equipment Solutions

Concrete Production • Wind Energy • Material Handling

1914 Sunnyside Drive  
Waukesha, WI 53186

(262) 349-9436

fax: (888) 858-3421

www.FESCODirect.com

## Enertech 44A

### Remanufactured Wind Turbine System

**Rated Power:** 40kW

**List Price:**

Call for details\*



Photos are a representation of the equipment mentioned and may not represent the actual equipment for sale. Appearance of actual equipment mentioned may vary.

**\*List Price Disclaimers:**

1. Wind turbine installation is highly customized according to location, set-up, seismic conditions, soil, zoning, local restrictions, and many other factors. Installation is not included in this price.
2. Taxes, Containerizing, and Shipping are not included. This cost estimate is FOB Factory. Estimates do not include export and other international fees.
3. This information should be used for general budgetary reasons only.
4. Pricing and availability is subject to change at any time without notice.

### Turbine Description

The Enertech 44A/40kW is a three bladed horizontal axis wind turbine with passive yaw that features a 13m diameter rotor. Its robust planetary gearbox offers large power capacities in a small package. The 44A incorporates an induction generator which provides a natural “soft coupling” between the rotor and utility line. Induction generators contain no slip rings or brushes and have no rotating windings. They are the most reliable type of generator in existence.

Since 1977 Enertech has been designing and building wind turbines whose emphasis has always been on reliability, serviceability, safety, and of course affordability. The Enertech 44A systems come with a five year limited warranty standard.

#### **Rotor:**

Three resin transfer molded, glass reinforced laminate, fixed pitch rotor blades. Operates downwind with an impressive 13m rotor diameter. Tip braking over-speed protection.

#### **Brake:**

Electro-mechanical, self adjusting, disc brake. Rotor employs aerodynamic stall for normal speeds. Control system applies rotor brake for high winds. Blade tip brakes deploy for emergency over-speed.

#### **Generator & Transmission:**

Three phase induction, 480VAC, 60Hz generator. 100% utility compatible power without the need for inverters. (Single phase and 50Hz available)

#### **Tower:**

Self supporting lattice towers are galvanized and come in 20 foot sections. Includes hardware, anchor bolts, safety climb device with trolley and harness, and ground rods. Power and control cable is included for length of tower. Available in 80, 100, 120, 140, & 160ft heights.

Robust, planetary, speed increasing gearbox.

Also available in self supported monopole towers that require no guy wires. Available in 80, 100, 120 & 140ft heights.

#### **Yaw:**

Passive downwind free yaw system. Studies clearly indicate this is the best choice for intermediate sized wind turbines. The rotor is designed with precise coning and distance from the yaw axis to obtain excellent natural downwind stability characteristics. (Not all downwind units on the market have such characteristics.) The stability allows the machine to properly position itself for maximum energy production without the need for wind direction sensing equipment, yaw drive mechanisms, or tail vanes.

**FESCO Direct** is a leading global supplier of new, used and remanufactured wind turbine systems. Call one of our account executives today at 262-349-9436 or visit us on the web [www.FESCODirect.com](http://www.FESCODirect.com)



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With 120ft lattice tower **\$68,395\***



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FESCO Direct is pleased to announce the updated and revised Enertech 44A wind turbine. This is an ideal turbine for farms, small commercial & industrial applications and schools.

The updated 44A is almost an entirely new machine at a fraction of the price of new! All 44A turbines have new:

- Fiberglass Composite Blades
- Controls
- Towers
- Wiring
- Disc Brakes
- Nacelle Housing and Spinners

The updated 44A promotes recycling by completely rebuilding the gearbox with new bearings and seals. The generator is completely rewound and new bearings are installed. The yaw bearing is completely remanufactured. By incorporating the values of recycling with clean wind energy, you can reduce your carbon footprint even more. You will also gain substantial savings over an entirely new system while still getting a **full five year, new machine, warranty!**

As part of our remanufacturing process all of our units go through an initial inspection. Turning torque, free-state clearance, gear size and external features are inspected and documented. The yaw bearings are disassembled, the races, rolling elements, and spacers cleaned. Components are brought through non-destructive testing. Yaw races are magnetic particle inspected to detect cracks or defects and harness readings are recorded. Yaw bearing races are precision ground to the proper geometry optimizing load carrying capability.

The gearbox and generator go through similar checks and processes as the above. New bearing are installed on all generators, and the unit is rewound and re-insulated.

Keep in mind that the control system is all new, as are rotors and towers. All of this is backed by a five year warranty, giving you the peace of mind you want from a proven design that has stood the test of time.

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### Specifications:

Rated Output Power: 35kW @ 25mph (3 phase), 40kW @ 30mph (3 phase)

Rotor Orientation: Downwind

Rotor Type: Fixed Pitch

Rotor Diameter: 13m

Number of Blades: 3

Blade Construction: Fiberglass Composites

Yaw Control: Passive

Wind Turbine Weight: 4100 lbs. without tower

System Design Life: 25 years

Operational Characteristics: Cut in wind speed 8mph, Cut out 60mph, Survival 120mph

Generator Type: 3-phase induction, 480VAC, 60Hz (single phase available)

Generator Speed: 1800rpm

Transmission: Planetary, 25 year design life with minimal maintenance

Brake: Electro-mechanical disc, self adjusting

Rotor Speed Controls: Aerodynamic stall for normal speeds. Control system applies rotor brake for high winds. Blade tip brakes deploy for emergency over speed.

Tower Type: Self-supporting truss-type or monopole.

Tower Heights: 80, 100, 120, 140, 160ft

Warranty: Five year limited warranty