

TOWERS MONOPILES

## READY TO ROLL

Tower Tech is prepared to make your towers and monopiles right now, and we have a plan for the future. We're here today, here to stay and here to lead the way.

Contact us today.

 Broadwind Energy company



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TOWER  TECH

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## THE NEW TOWER TECH

It's time to take another look at Tower Tech Systems, a familiar company that's bringing new power to wind energy development.

Since 2004, our highly skilled and dedicated workforce has been manufacturing wind towers for the North American wind energy development market. Today, we're led by a strengthened leadership team that understands wind energy, heavy manufacturing and the absolute necessity of quality and on-time delivery. We're supported by a technical team that is pushing the boundaries of efficiency, innovation and lean manufacturing. And our strategic locations provide cost-effective and easy access to every shipping option.

Top to bottom, we've optimized our organization for mass production with a combination of the most advanced equipment, high-tech automation and streamlined manufacturing processes. The result is an annual production capability of 1,200-1,350 MW installed. We have specialized expertise for manufacturing the next generation of wind towers and the equipment and facilities needed to produce monopiles for offshore development. Underlying it all is our unrivaled dedication to meeting your needs.

Check out Tower Tech. We're ready to roll on your project.



## WE KNOW WIND

Tower Tech is no newcomer.

From the beginning, we've been building some of the world's biggest, heaviest sections. Our first completed tower, erected in March 2005 at the Medicine Bow Project in Wyoming, supports Clipper's very first 2.5 MW commercial Liberty® turbine.

We've learned much since then and applied that knowledge to manufacturing towers for the world's largest turbine suppliers: Clipper Wind Power, Gamesa Wind US and Vestas. The result is a level of experience and expertise that no other company can bring to bear,

either with today's sections or in fabricating larger, heavier next-generation towers that require proficiency with the most challenging welding techniques.

Couple that with a management team that has more than 60 years of combined experience in wind energy development and heavy manufacturing, and it's easy to see why companies like Gamesa Wind US and Clipper Wind Power return to Tower Tech for project after project. In fact, Gamesa recently placed its largest outsourced order ever with Tower Tech.

Whatever challenge you face, Tower Tech can provide a solution.

## A STRONG HISTORY OF HEAVY MANUFACTURING

We come honestly by our heavy weldment fabrication experience and expertise. For more than a century, generations of people on this Wisconsin peninsula have been producing massive steel equipment for numerous industries and applications. For example, Manitowoc Shipbuilding Company began building boats and ships in 1902. During World War II, the company manufactured submarines for the U.S. Navy in the same location Tower Tech now occupies. Many of our workers gained heavy weldment experience building massive cranes for a local crane fabricator. They are used in industries as diverse as mining and wind farm construction. As we expand across North America, we will draw from this generational expertise in training employees at our new facilities.





## WE HAVE A PLAN

The North American wind energy industry needs more advanced towers manufactured closer to project sites so developers can keep up with technology while eliminating a significant portion of associated transportation costs. Tower Tech is responding with an aggressive plan that includes investments in new equipment, experienced people and new facilities.

In the coming months, Tower Tech will grow organically at our Manitowoc, Wis., plant while constructing additional purpose-built facilities in strategic North American locations. They will be built exclusively for tower manufacturing

and will be highly efficient, both operationally and in terms of energy usage.

We recently began planning for construction on plants in Sioux Falls, S.D. and Abilene, Texas. Moving forward, we will continue acquiring new manufacturing technologies and building or obtaining plants in areas where we currently see or expect to see significant development. With multiple facilities in tactically intelligent locations, Tower Tech will be one of the most responsive tower manufacturing companies in North America.

As we implement this plan, we will do so with pride in providing good domestic jobs, supporting North American wind energy development and boosting the economies of our communities.



## FACILITIES AND CAPABILITIES

### OVERALL

More than 592,000 square feet under roof to support raw material processing, monopile and tower section fabrication, surface treatment and finishing operations

Continuous under-roof flow for blast and paint

Deep-water access to the Atlantic via Lake Michigan

Dedicated rail spur

Temporary and long-term storage available

### FABRICATION

430,556 square feet under roof

Overhead lifting capacity – 4 x 50 tons, 2 x 125 tons

56 feet under hook

2 plate rolls – 3.14 inches x 10 feet

2 plasma cutting tables & mechanical bevellers

Dedicated assembly bay

### SURFACE TREATMENT

Automated plate blast pretreatment

Blast facility – 79 x 158 feet

Custom turning rolls on rail tracks for heavy loads

Overhead lifting capacity – 2 X 60 tons

### PAINT & CURE

2 paint booths – 27 x 122 feet

Temperature control to 160 F

Custom turning rolls on rail tracks for heavy loads

### LOADING / ACCESS

3 straddle lifts – 1 x 75 tons, 1 x 70 tons, 1 x 35 tons

Manitowoc River channel width ranges between 400 feet and 600 feet

Dockage – 2 sea walls, 400 and 653 feet long



## FROM HERE TO ANYWHERE

Barge, rail or truck – the options for easy and cost-effective shipping to and from our Manitowoc, Wis., plant can't be beat. Our facility is on a 46-acre peninsula surrounded by the Manitowoc River, a deep-water shipping channel that is a direct conduit to the Atlantic via Lake Michigan and the St. Lawrence Seaway. The property allows barge access for loading and offloading raw materials, towers, turbines, blades, monopiles and other large structures. In addition, a dedicated spur line provides direct rail access. Our new South Dakota and Texas facilities will provide direct access to rail, and as we continue to expand, shipping availability and efficiency will be primary considerations in our site location decisions.

## STANDING ON BROAD SHOULDERS

Tower Tech makes huge wind towers and monopiles, and we're part of something even bigger. Our parent company is Broadwind Energy (BWEN-OTC), a publicly traded company that owns, supports and strategically positions companies that manufacture, install and maintain components for energy and infrastructure-related industries. As a member of the Broadwind family, we're part of a comprehensive and efficient response to the supply-chain needs of renewable and other energy industries across North America. It also means we have the financial resources to expand, upgrade and respond to your needs, whatever they might be.

