

CASE STUDY THE ICE STORM



THE PROBLEM

Redline Communications is a wireless network company that was contracted to provide lines of communication along an oil drill rig line in North Dakota. While on the job, Redline Communications realized that they were short one tower and needed one as soon as possible. Upon hearing their request, Tower Solutions built them one and personally drove it to the job site all within 48 hours. It was during this time of use by Redline that fifteen of their towers were involved in a heavy ice storm that rampaged through the area.

THE PROCESS

As the ice storm subsided and the winds cleared up, it was revealed that every other tower had fallen down due to the fierce storm. Ice was frozen around the entirety of the circumference of the tower, and was measured to be nine inches thick. Calculations estimated that the tower was carrying approximately five thousand pounds of ice. Later on, the customer stated that other towers typically need to be replaced after 3-4 years, but believed that Tower Solutions product had much better longevity and durability. The tower is still being used to this day as a rental, and is still in good condition.



WHY TOWER SOLUTIONS

Tower Solutions specializes in making portable towers that are both lightweight yet durable. With enhanced support through use of heavy-duty leveling jacks and wide outriggers, towers are able to withstand high levels of wind, and require a low rate of maintenance. Because there are no pneumatic or hydraulic components, the tower is able to self-assemble in all normally specified environments and temperatures with the push of one button. Their use of an aluminum body allows for lightweight resistance to corrosive elements while also providing the strength to carry payloads of up to 2000 lbs. Towers are adaptable, and can be used on almost any type of surface or terrain without problem. As opposed to other existing towers which all rely on tilt up or telescoping technology and required a large crew to erect, Tower Solutions only requires one person and can be easily set up in only 15 minutes.

Go to
[towersolutionsinc.com](https://www.towersolutionsinc.com)
for more information



SURVEILLANCE



COMMUNICATIONS



TACTICAL SUPPORT



LIGHTING

TOTALLY AUTOMATIC SELF-ERECTING MOBILE TOWERS



FAST

80 Feet in
5 Minutes



SIMPLE

1 Man
Setup



STRONG

Lifts 1 Ton
Payload



STABLE

Withstands
Hurricane Winds



THE BENEFIT

Tower Solutions' patented gear technology creates a lightweight yet rigid self-assembling tower structure that is able to reach up to 80 feet in 5 minutes with the push of one button. Tower Solutions provides an easy to use tower that is both mobile and structurally sound, with enhanced support through use of heavy-duty leveling jacks and wide outriggers. It is able to withstand high levels of wind while maintaining its functionality, and requires a low rate of maintenance.



CUSTOMIZATION

Tower Solutions versatility lies within their wide range of towers that each vary in size, weight, and payload capacity. In addition to this, customizations on each tower may be reached through a number of features and accessories that are available to meet the customers exact needs.

CATEGORIZED INTO TWO SUBGROUPS:

The Large Tower Series

Primarily composed of towers that can reach 80 feet in height and are all self-supporting.

The Small Tower Series

Offers compact units that are easily transportable and require a proper mounting pad or vehicle to ensure stability while raised.

Further specifications for towers
are available upon request

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