



## GROUND IMPROVEMENT FOR WIND ENERGY

### WHY DO WIND TURBINES NEED A GROUND IMPROVEMENT SOLUTION?

During strong wind events, large overturning moments are generated and must be carried by the wind turbine's foundation system.

In poor soils conditions, the subgrade soils may not have the strength to carry these loads, leading to failure or rotation of the foundation which can make the wind turbine in-operable.

Ground improvement has proven to be a more cost effective solution than over-excavation or over-sizing of foundations.

Installing a grid of aggregate piers or rigid inclusions under the foundation increases stiffness and strengthens the native soils, thus preventing excessive differential settlement and prevent bearing capacity failures.

CNC Foundations can provide turn-key cost effective ground improvement design and installation solutions.



### THE CNC DIFFERENCE

CNC Foundations has extensive experience designing and installing ground improvement systems. We have completed over 20 Wind Farm projects and 300+ turbines.

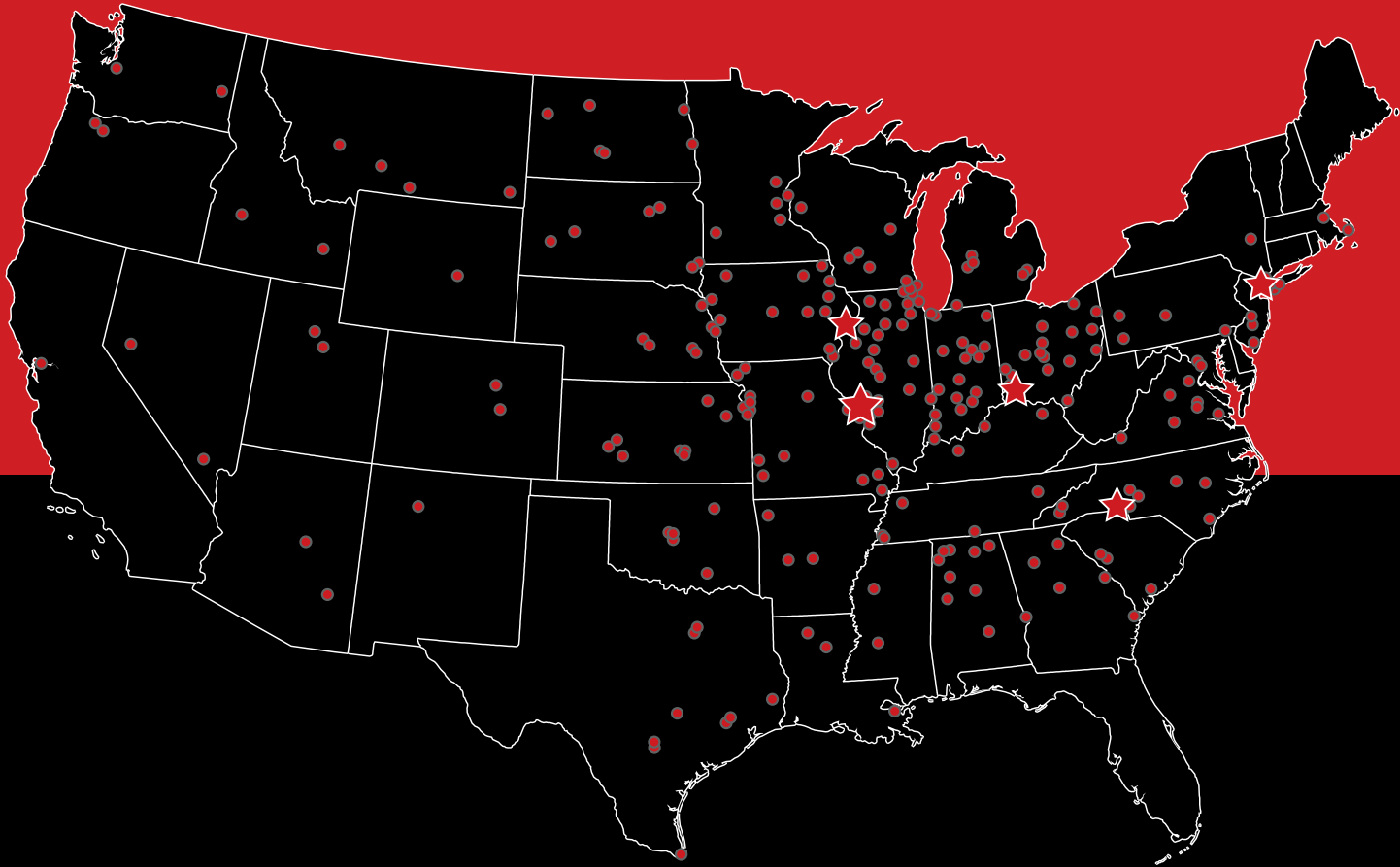
We have the equipment and skilled personnel to design, mobilize, and perform installation to meet project requirements. Our fleet includes various types of rigs with differing capabilities to address various soils types and installation depth requirements.

CNC Foundations' design team has extensive experience to streamline the submittal process and provide top notch quality assurance. This is done to insure we deliver you the best product for your investment.





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