

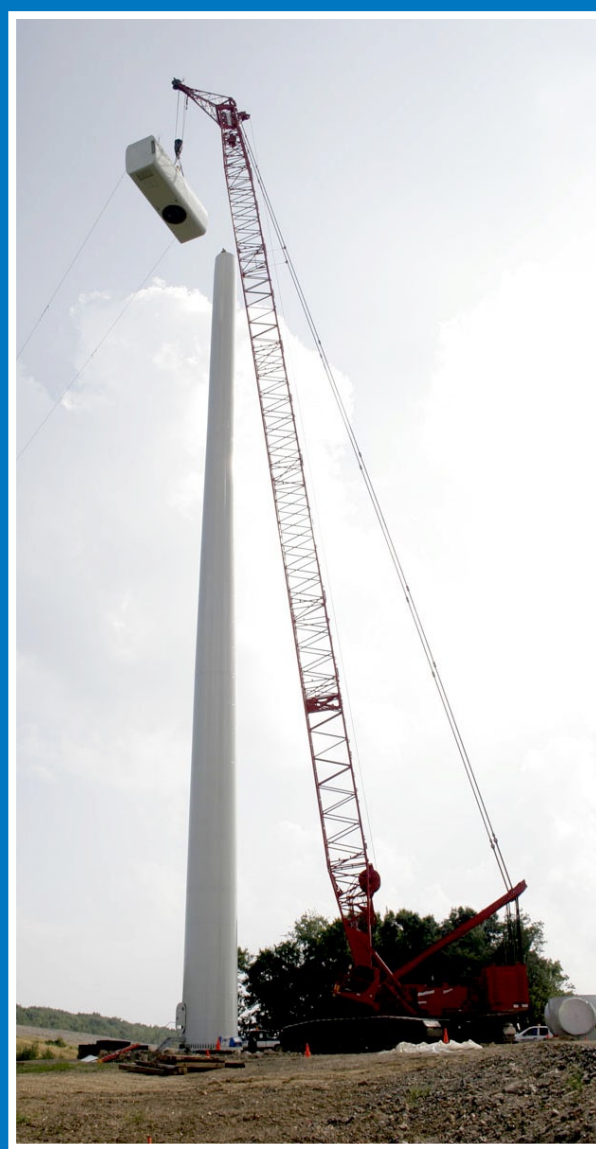
Proven Construction Practices

More than 40,000 MW of wind energy has been installed in the U.S., so the industry has lots of experience in effective, reliable and efficient construction techniques. These well-understood construction practices have ensured that wind has one of the best safety records of any energy industry.

The Chokecherry and Sierra Madre Wind Energy Project is estimated to consist of:

- 1,000 wind turbines and foundations
- 350 miles of internal roads
- 825 circuit-miles of electric collector lines
- 33 miles of transmission lines to gather electricity

What does it take to build a turbine?



- Modular assembly facilitates construction
- 1 – 2 large cranes
- Crews of 8 – 10 people
- Assembly time typically 1 – 2 days
- Remaining work and internal finishing, commonly 2 – 4 people for a few days

What do other features look like?

Roads



Similar to rural gravel roads

Foundations



Large mat foundations in shallow excavations

Underground Cable

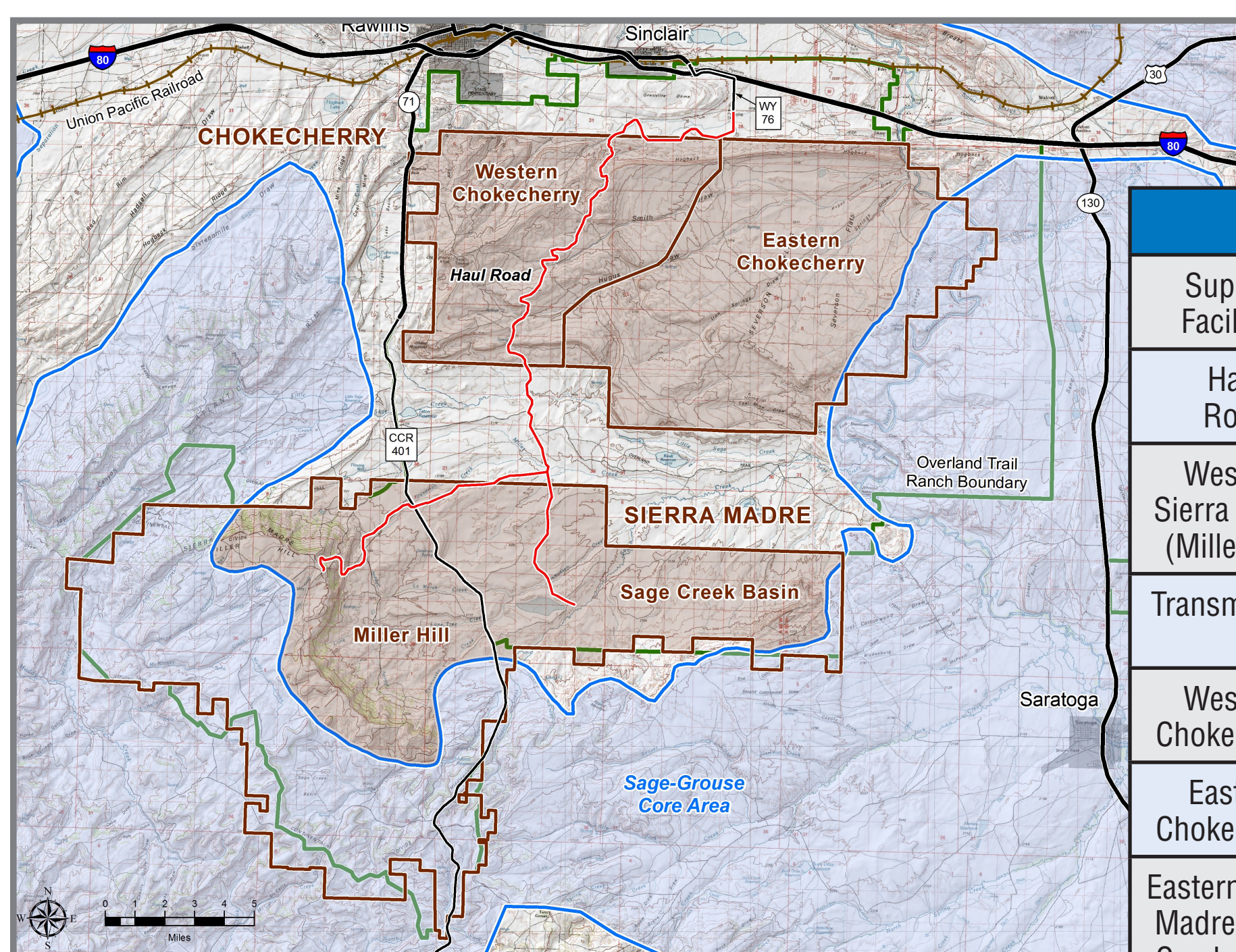


Directly buried in the ground if possible

Substations



Similar to rural cooperative substations



	Year 0	Year 1	Year 2	Year 3	Year 4
Support Facilities	Rail Facility →	2 Substations →	2 Substations →	1 Substations →	
Haul Road	8 Miles →	20 Miles →			
Western Sierra Madre (Miller Hill)		Road Fdns →	Turbines →		
Transmission			20 Miles →	6 Miles →	7 Miles →
Western Chokecherry			Road Fdns →	Turbines →	
Eastern Chokecherry				Road Fdns →	Turbines →
Eastern Sierra Madre (Sage Creek Basin)				Road Fdns →	Turbines →

Source: Chokecherry and Sierra Madre Draft EIS, Volume II, Table A.3-1.