



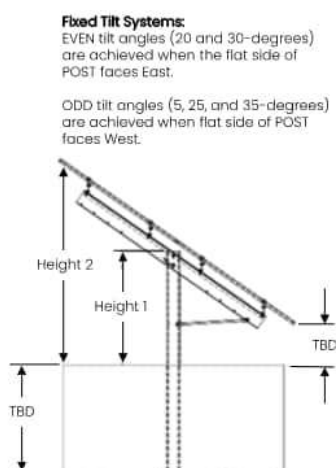
Muska Electric Solar Decommissioning Narrative

2400 North Riverfront Drive Mankato,, MN 56001

System Shutdown: PV System will need to be shut down and locked off at the point of interconnection. Electrician will need to verify voltage is absent and all solar components are safe for removal.

Module Removal: Solar array may safely be stripped of DC/ free air conductors once the system is locked off and deemed safe to work on. All conductors may be recycled to offset the cost of removal. Modules will then need to be unbolted, palletized, and staged for pickup for a silica/ PV recycling service.

Racking Removal: The steel racking system supporting the modules may be unbolted or cut. All components may be recycled. The vertical posts/ 'c-channel' will be removed by a fence post puller (hydraulic attachment for bobcat). All posts are to be driven, not encased in footings.



- Post Driven: Average embedment depth = 6.5 feet to 8.5 feet.
- Concrete Footer: Average is 24-inch OD x 6.0 feet to 7.0 feet deep.
- Concrete Ballast Block: Typical size 120-inch L x 30-inch W x 12-inch H.

NOTE: EVEN tilt angles (20 and 30-degrees) are achieved when the flat side of POST faces East. And ODD tilt angles (5, 25, and 35-degrees) are achieved when flat side of POST faces West.

Inverters: Inverters may be removed manually. Racking support and shade cover components may be recycled. Inverters will need to be disposed of through an electronics recycling center.

Switchgear and Feeders (AC Component): These components may be able to remain if the landowner intends to install an updated PV system at the time of decommissioning. AC Feeders may be tested for damage, and switchgear may be re-certified for use. If they are to be removed, feeders will need to be pulled free with assistance from a motorized tugger. Conductors may be recycled to offset the costs. Underground conduits will need to be unearthed and disposed of with the use of an excavator. The switchgear may be removed with a telehandler and sent to a refurbish center that will strip the switchgear of salvageable items. Concrete will need to be demolished, and shipped to a crusher site.

Site Restoration: There are no underground components within the boundary of the array. Once the array has been removed, the site may be mowed, plowed, & seeded at the expense of others. These actions may not be needed as the site owner/ developer has plans for native plantings incorporated into their development strategy.

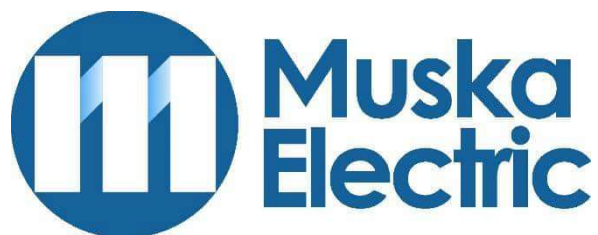
Sincerely,

Muska Electric Company

Michael Ahmann

Michael Ahmann

Project Manager



Muska Electric Solar Decommissioning Estimate

Site Address: 2400 N Riverfront Drive Mankato, MN 56001

Array Infrastructure	Labor Costs	Fees
Modules (2,102)	\$20,000.00	
Cable Support System (600ft)	\$6,000.00	
Racking Supports (24 rows)	\$19,500	
Vertical Pilings (337)	\$10,000	
Electrical Equipment		
Inverters (8)	\$1,500	\$500
Feeder Conductors	\$5,000	
Switchgear	\$2,500	
Recycling/ Disposal		
Modules (2,102)		\$5,000
DC Wire		No Charge
AC Feeder Conductors		No Charge
Gear		No Charge
Total Costs	\$70,000.00	

Sincerely,

Muska Electric Company

Michael Ahmann

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{Project Manager, Estimator}