

Montana Transmission Infrastructure Upgrades

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Western Area Power Administration – UGPR Montana Facilities

n Miles of Transmission -- 1450 Miles

v 230 kV -- 560 miles

v 161 kV -- 283 miles

v 115 kV -- 530 miles

v 69 kV and lower -- 75 miles

n Substations -- 40

n Generation -- 380 MW Corps & BuRec

Western Facility Upgrade Program

- n Some is very old and must be replaced
- n Prioritize which lines need the most work
- n Will use Western crews to do the work
- n Upside --- Will save costs
- n Downside --- Will take longer



Recent Upgrade Projects

- n Fort Peck Transformer and Switchyard
- n Glendive Transformer and Switchyard
- n Havre – Tiber – Shelby 115 kV Rebuild
- n Ft Peck -- Wolf Point 115 to 230 Rebuild
- n Wolf Point, Circle, Custer Substations



Current Upgrade Projects

- n Wolf Point - Williston 115/230 kV Rebuild**
 - v ~100 Miles in 10 mi increments -- \$2.3 M**
 - v Underway – built 20 miles from Williston**
- n Havre – Gt Falls 161 to 230 kV Rebuild**
 - v ~100 Miles in 10 mi increments -- \$2.0 M**
 - v Beginning Environmental Process**
- n Rainbow 161 Transformer and Substation**
 - v Estimate \$ 5 M**



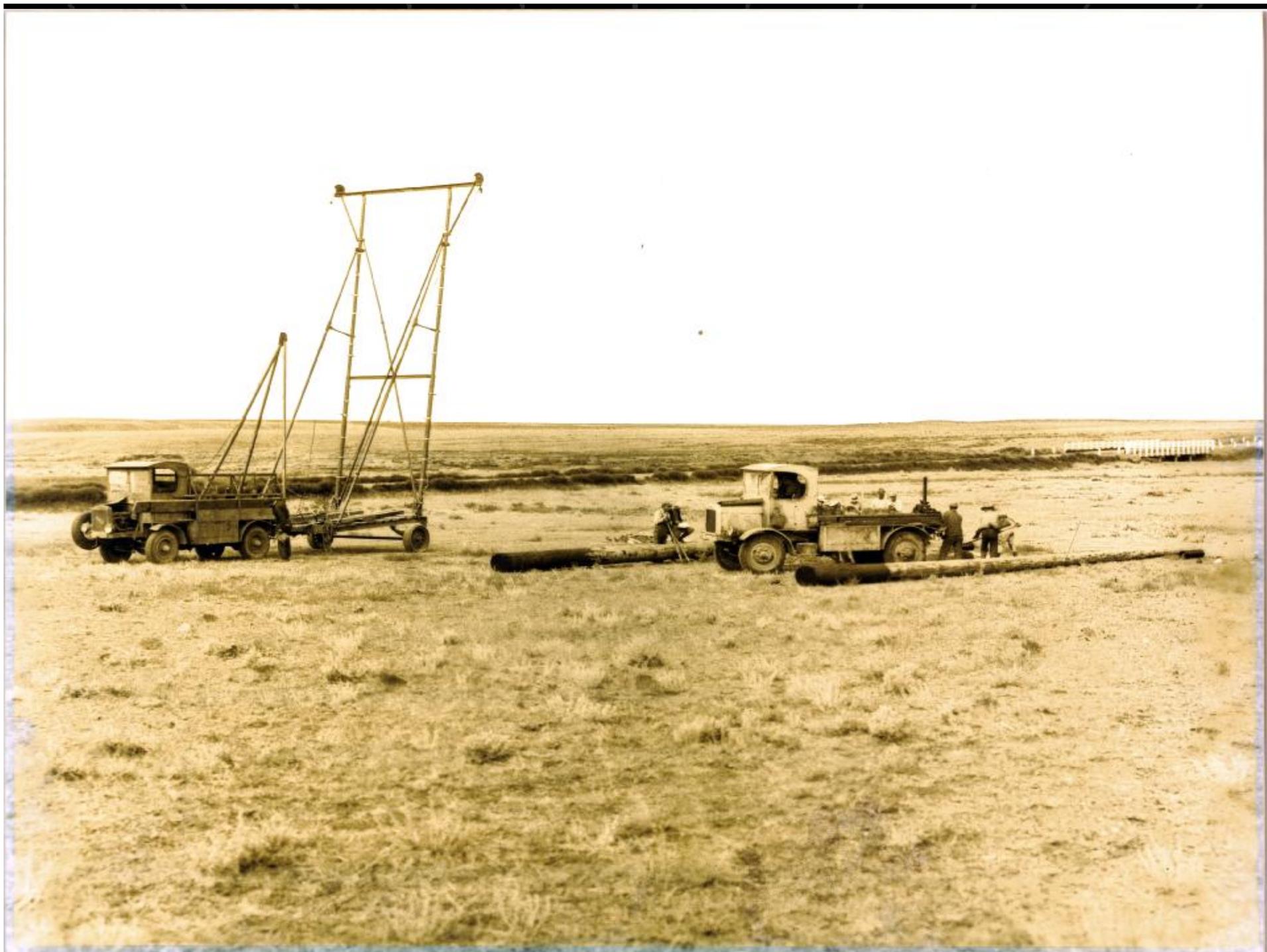
Impediments to Transmission

- n Opposition and litigation
- n Siting across multiple jurisdictions
- n Impacts vs. benefits?
- n Who has responsibility to build?
- n Uncertain cost recovery
- n Risky – Who will invest?

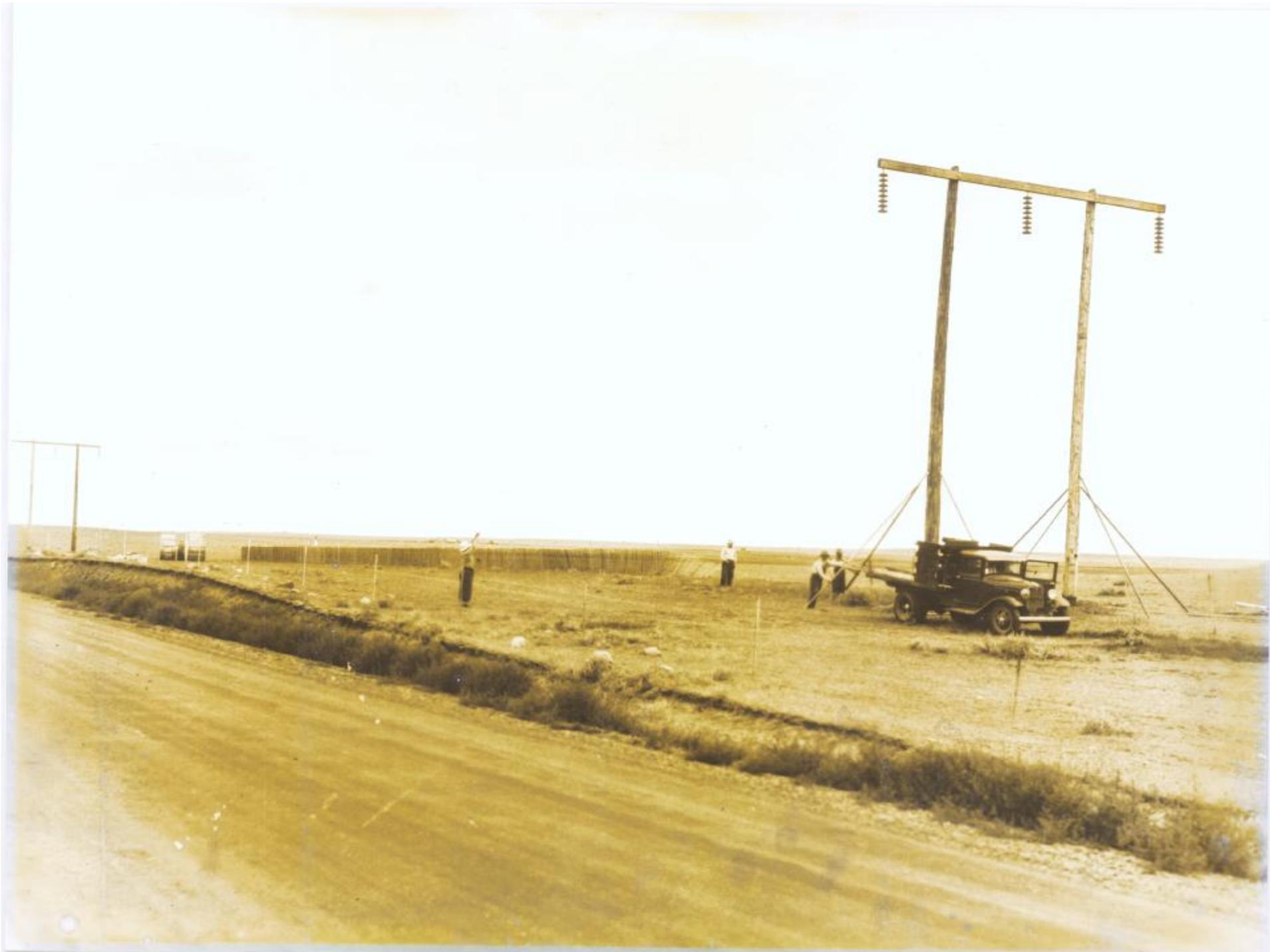
























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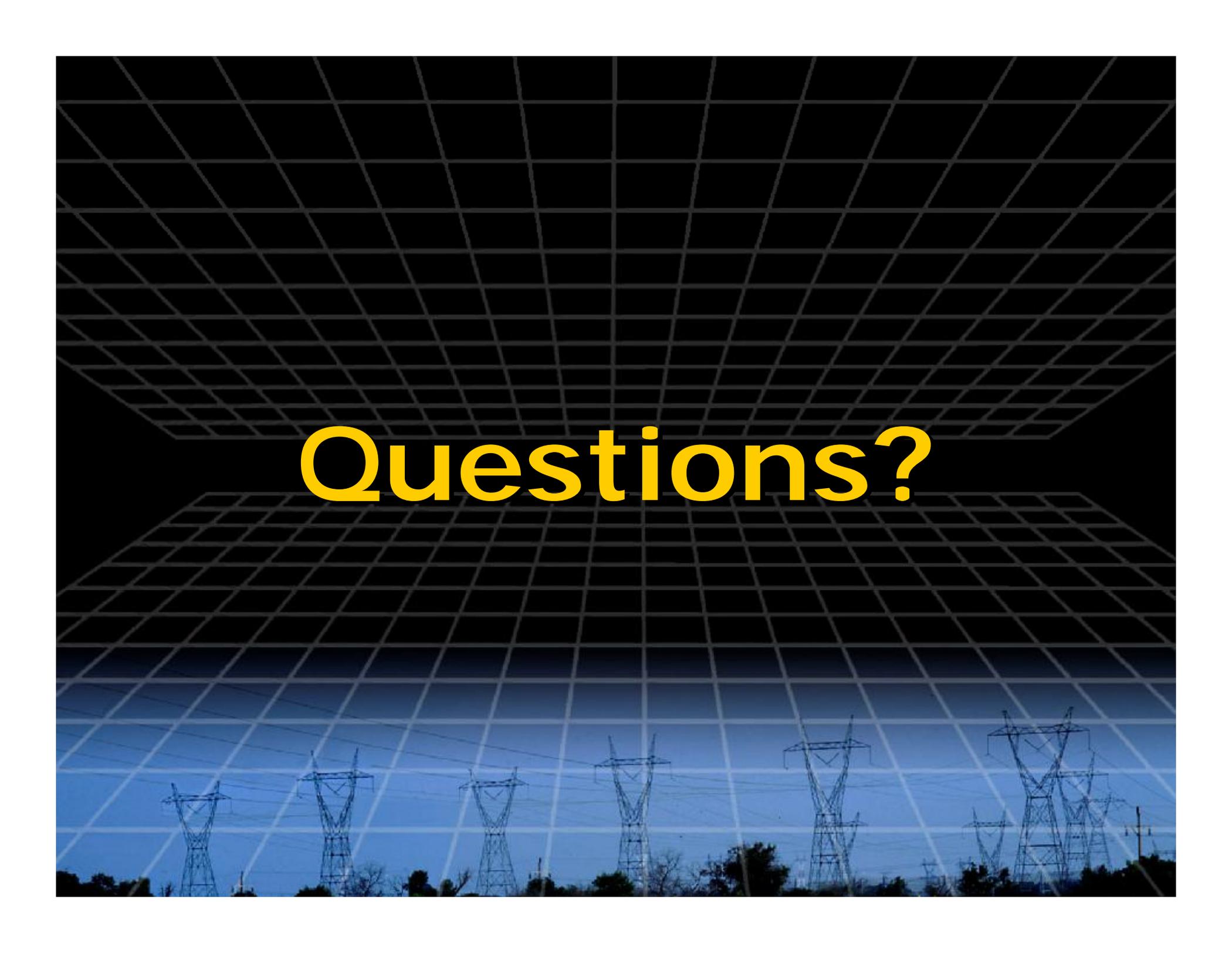




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A blue-tinted photograph of a power line tower landscape. The image features several high-voltage transmission towers and power lines stretching across the horizon. A white grid pattern is overlaid on the entire image, creating a perspective effect. The word "Questions?" is written in large, bold, yellow font in the center of the image.

Questions?