TORONTO POWER PLANT

PUC Public Input Meeting

Deubrook Elementary School Gymnasium
Toronto, South Dakota

September 24, 2025
Docket: EL25-028

Presenter: Brent Moeller – Director of Generation Resources, MRES

MISSOURI RIVER® ENERGY SERVICES

AGENDA

1. Who are MRES & WMMPA
2. Reason for Toronto Power Plant
3. Site Selection Process
4. Toronto Power Plant Overview
5. Transmission Route
6. Regulatory Review
7. Community Stewardship
8. Project Schedule

Who Are MRES & WMMPA

- Missouri River Energy Services (MRES) is a not-for-profit municipal power agency owned and operated by 61 member municipal electric utilities in South Dakota, North Dakota, Minnesota and Iowa.
  - Governed by a 13-member board of directors who are elected by and from the member communities we serve
  - Member utilities own and operate their own electric distribution systems and receive additional power through MRES

- Western Minnesota Municipal Power Agency (WMMPA) is listed with MRES on the power plant permit application. WMMPA owns generation and transmission facilities for MRES.

REASON FOR TORONTO POWER PLANT

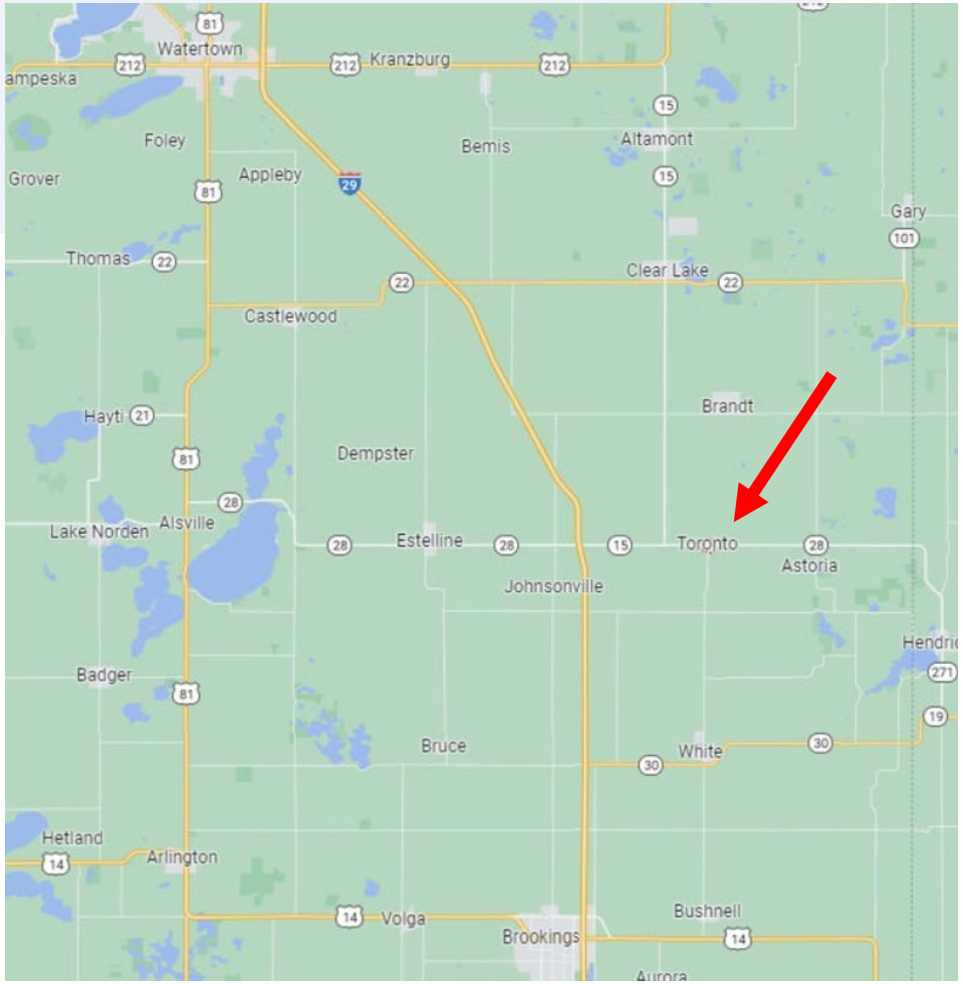
- Electric consumers are using more electricity to power homes, schools and industry, and that will continue.
- Regulations require MRES to have available capacity (the ability to generate electrical power) to meet the highest peak use plus margin.
- MRES' significant need for capacity starts in 2029 with a need for 150 megawatts (MW) in later years.
- Provides a reliable power source to fill the gaps from existing wind and solar resources.

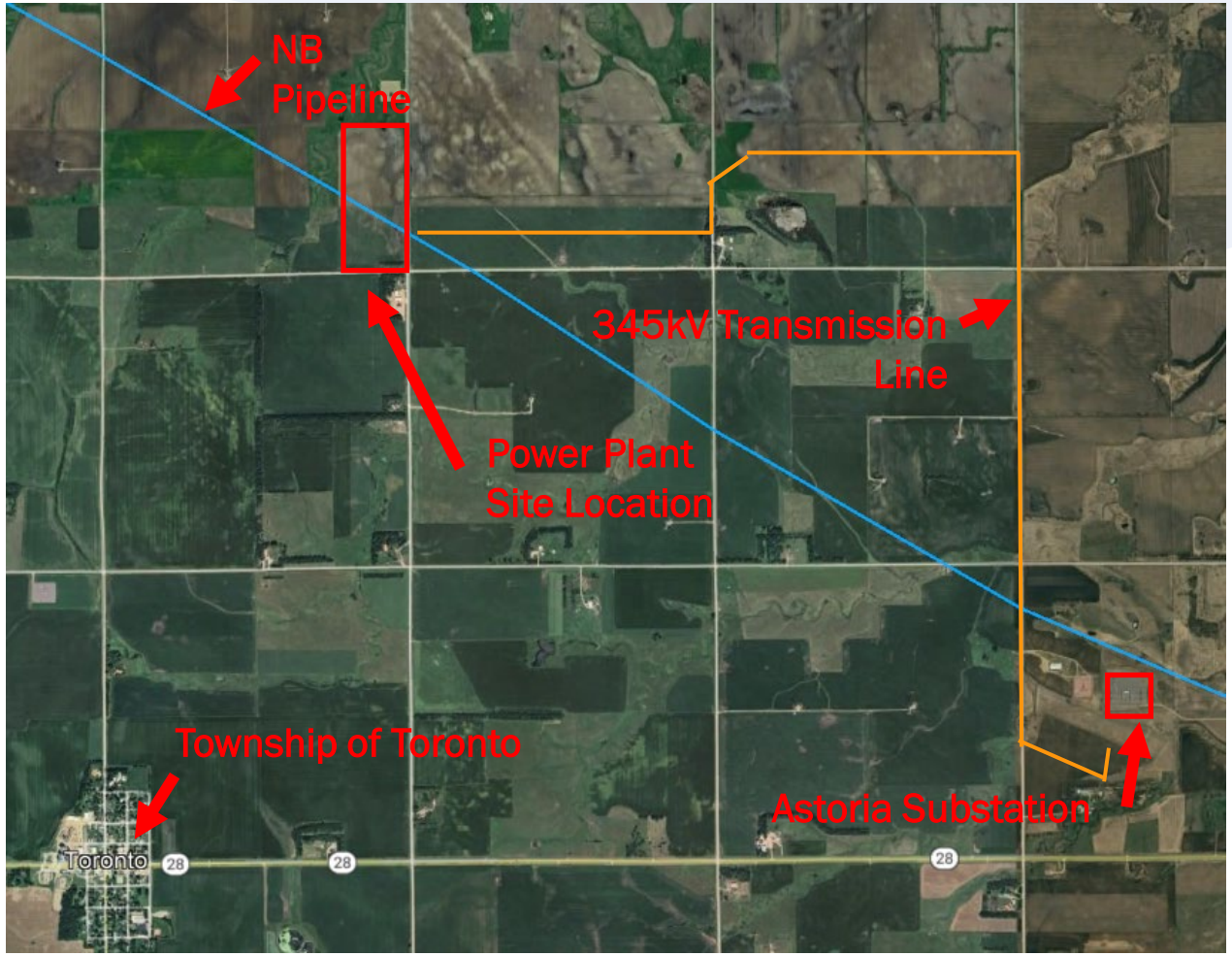
Toronto Power Plant is <u>NOT</u> being proposed to meet the needs of potential future data centers.

SITE SELECTION PROCESS

- The Toronto area was identified as a prime location based upon three major factors for siting the power plant location:
  - Near a major interstate natural gas pipeline with available capacity
  - Near a significantly sized substation
  - Located within 60 miles from a fuel oil terminal – Watertown, SD
- MRES staff started the site selection process in 2022 and submitted the generation interconnection request in the regional transmission operator's 2023 queue (request to connect to the electrical grid).

SITE SELECTION PROCESS (cont'd)





MISSOURI RIVER® ENERGY SERVICES | TORONTO POWER PLANT

OVERVIEW

- Project location: 2 miles north-northeast of Toronto, SD
- Plant details:
  - 145 MW simple-cycle combustion turbine (CT) generators (genset)
    - Four dispatchable 36.25 MW CT gensets
    - Dual-fuel; primary natural gas with 60 hours of fuel oil backup
  - Turbine Hall building (106 ft wide by 280 ft long by 38 ft tall) with office facilities
    - Insulated metal building constructed around the CT genset (Turbine Hall) with insulated walls and roof to minimize noise
    - Four exhaust stacks
    - Turbine air intake and filter house adjacent to the Turbine Hall

OVERVIEW (cont'd)

- Plant details (cont'd):
  - Two fuel-oil tanks with spill prevention dikes
  - One fire water storage tank
  - Cooling radiators and storage tank for the glycol cooling system
  - Two wells to charge the fire water storage tank and minimal process water
  - Power plant site is on 71 acres and approximately 20 acres of this area will be for the power plant itself
  - Downward facing streetlights will be used
- Transmission:
  - 4.9-mile 345-kilovolt (kV) line from the plant to the 345-kV substation

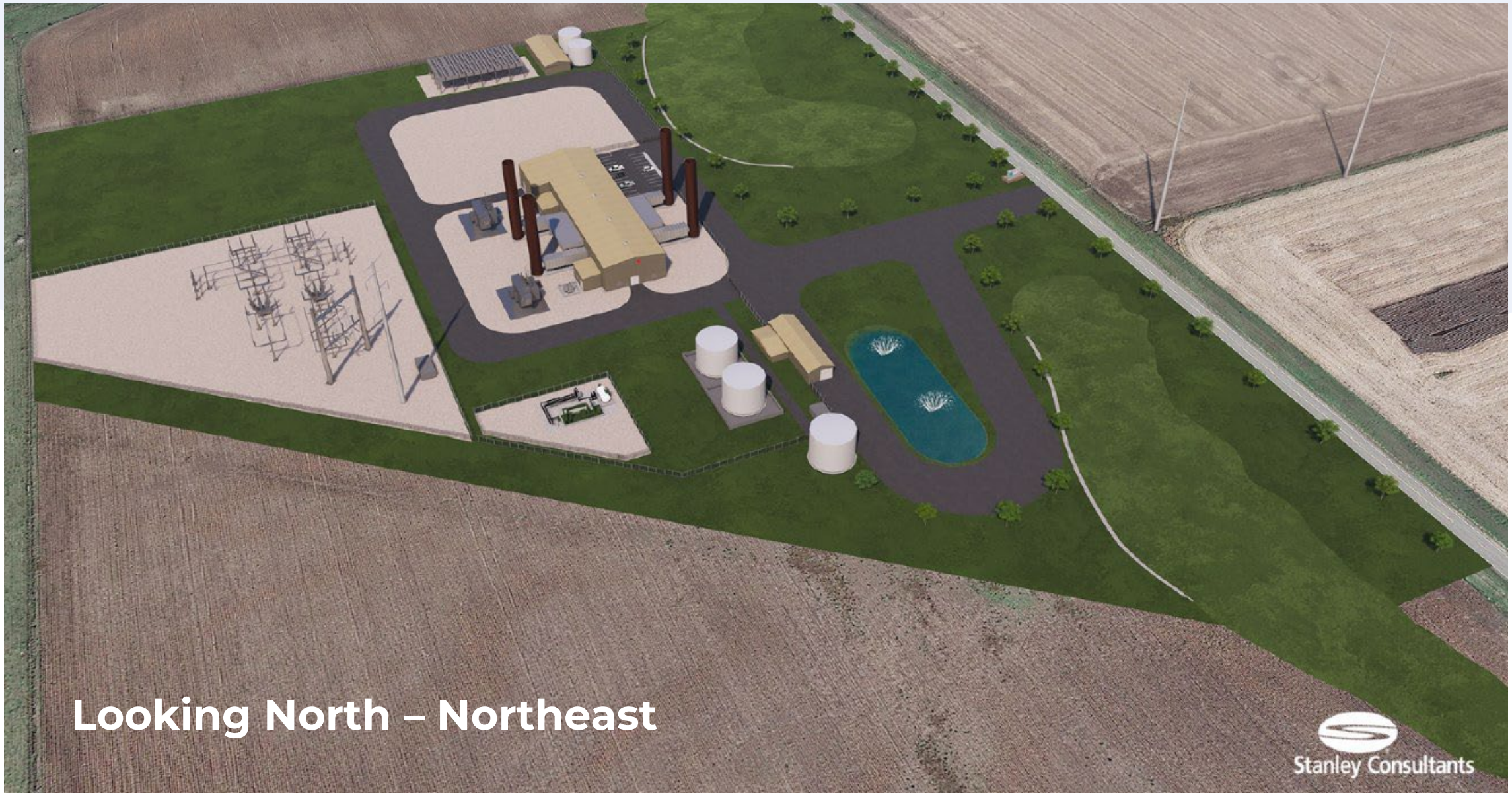
OVERVIEW (cont'd)

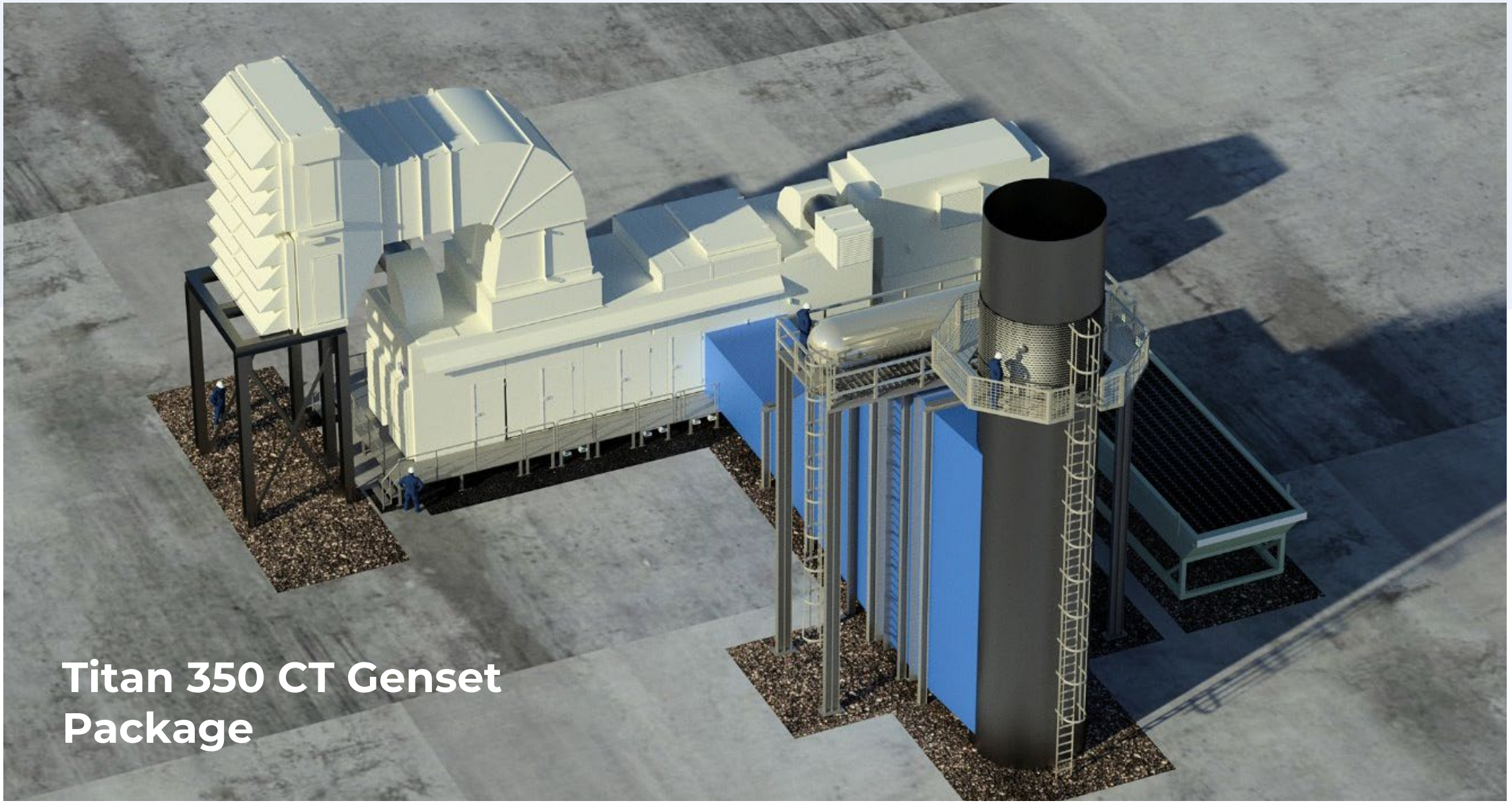
- Fuel:
  - Tap the existing 42-inch Northern Border Pipeline with pressure stepdown gas yard with less than 450 feet of new piping to the combustion turbine
  - Plant is dual-fueled; can operate on fuel oil if needed

- Cost:
  - Estimated power plant and transmission line cost ~$378 million


Looking Northwest
Stanley Consultants


Looking Southwest – West
Stanley Consultants

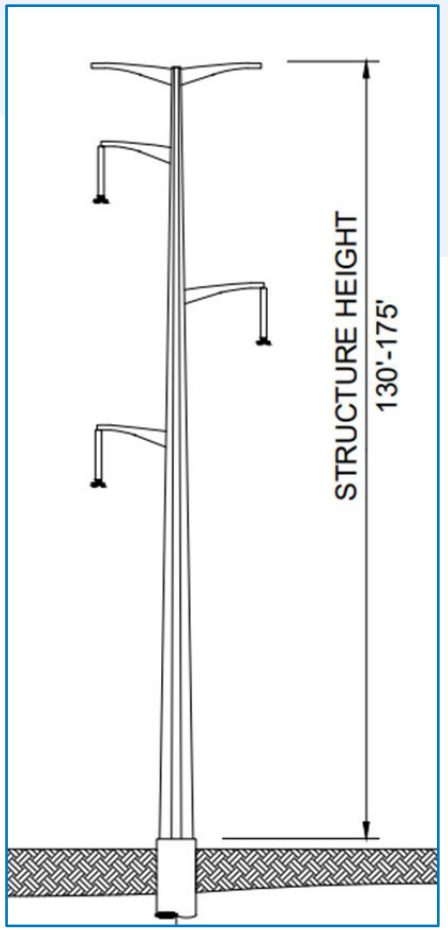

Looking North – Northeast
Stanley Consultants



MISSOURI RIVER® ENERGY SERVICES | TORONTO POWER PLANT

TRANSMISSION ROUTE

- Expected to require up to 30 poles with spacing varying with terrain, and up to 1,500 ft apart
- Poles will be single pole approximately 130 to 175 ft tall depending upon terrain
- Proposed route avoids close proximity to homes and reduces impact on cropland and farming operations
- Easements based on 75 ft from pole centerline (150 ft total width)



REGULATORY REVIEW

- Noise modeling performed to ensure compliance with Deuel County noise ordinance of less than 45 dBA at the nearest residence
- Air quality to be monitored to meet state air-quality requirements (following construction a Title V operating permit will be obtained)
- SD Dept. of Agriculture and Natural Resources to permit two area wetlands
- Deuel County road agreement to address road usage and repairs

COMMUNITY STEWARDSHIP

MRES is committed to partnering with the Toronto-area citizens.

- Construction:
  - Minimize and avoid impacts to natural, cultural and historic resources
  - Notify the local public of construction timeline
  - Find ways to benefit the communities hosting incoming workforce
  - Support construction job opportunities
- Community Benefits:
  - Expected county tax revenue is approximately $3 million over the first five years of operation, then approximately $1 million per year each subsequent year
  - A more robust and reliable regional electric grid
  - Anticipate five or six full-time employees for plant operations

PROJECT SCHEDULE

2024-2026
Permitting

2025-2026
Surveys and Engineering Design

2026
Pre-Construction Activities

2027-2029
Construction

2029
Power Plant in Operation

MISSOURI RIVER® ENERGY SERVICES | TORONTO POWER PLANT

THANK YOU

605-977-7775

connect@torontopowerplant.com

Website: www.mrenergy.com

MISSOURI RIVER® ENERGY SERVICES | TORONTO POWER PLANT