

GRAIN BELT EXPRESS CLEAN LINE SCHEDULE



FREQUENTLY ASKED QUESTIONS

- **Who is Clean Line Energy?** Clean Line Energy develops long-haul, high voltage direct current transmission lines connecting the best renewable resources in the United States with communities that need the power.
- **What will the project cost and how will the Grain Belt Express Clean Line be funded?** The Grain Belt Express Clean Line is estimated to cost \$2 billion. Clean Line Energy intends to fund the development costs of the project and will sell transmission capacity to renewable energy generators or to the buyers of the clean energy delivered on the line.
- **What is HVDC?** HVDC stands for high voltage direct current. The electric grid consists almost exclusively of Alternating Current (AC) transmission and distribution lines. Over long distances, HVDC lines transfer significantly more power with greater efficiency than comparable AC lines.
- **How will Clean Line Energy minimize land impacts?** Clean Line is committed to working extensively with landowners to minimize the impacts of our project to current land use. We will provide compensation for damages to crops caused by the construction of our project. Clean Line will take land use into account when choosing structure design and will repair damage to soil conservation practices resulting from construction of the transmission line.
- **How will Clean Line Energy minimize environmental impacts?** Clean Line Energy is working hard to be a good environmental steward. We are accountable to state and federal agencies regarding our environmental impacts and are conducting extensive outreach to environmental advocacy organizations.

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**Toll-Free Hotline**  
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GRAIN BELT EXPRESS CLEAN LINE

ABOUT THIS ROUNDTABLE

The purpose of this roundtable is to:

- Provide information about the Grain Belt Express Clean Line
- Discuss the need for interstate transmission lines
- Seek your input early in the transmission line routing process



- 5,000+ CONSTRUCTION JOBS
- 500+ OPERATIONS JOBS
- \$2 BILLION INVESTMENT IN TRANSMISSION
- \$7 BILLION INVESTMENT IN NEW WIND FARMS
- ENOUGH POWER TO PROVIDE ELECTRICITY TO 1.4 MILLION HOMES PER YEAR
- PROPERTY TAX PAYMENTS
- INCREASED MARKET COMPETITION BENEFITS TO CONSUMERS
- SIGNIFICANT POLLUTION REDUCTION

PROJECT OVERVIEW

The Grain Belt Express Clean Line is a 700-mile overhead, high voltage direct current (HVDC) transmission line that will deliver 3,500 megawatts of low cost, renewable power from western Kansas to Missouri, Illinois, Indiana, and points farther east.

The development and construction of the Grain Belt Express Clean Line is an estimated \$2 billion investment that will enable approximately \$7 billion of new, renewable energy projects to be built.

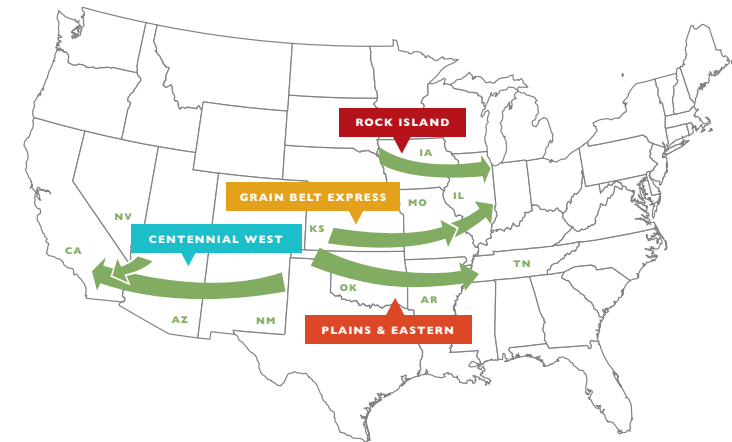
CLEAN LINE ENERGY

The Challenge:

The United States has some of the best renewable resources in the world; however, the transmission infrastructure does not exist to transport the energy generated from these resources to communities that need the power. Clean Line Energy is working to address this challenge.

The Clean Line Energy Solution:

Clean Line Energy is developing long-haul, high voltage direct current transmission line projects to connect renewable energy resources to communities that need the power.

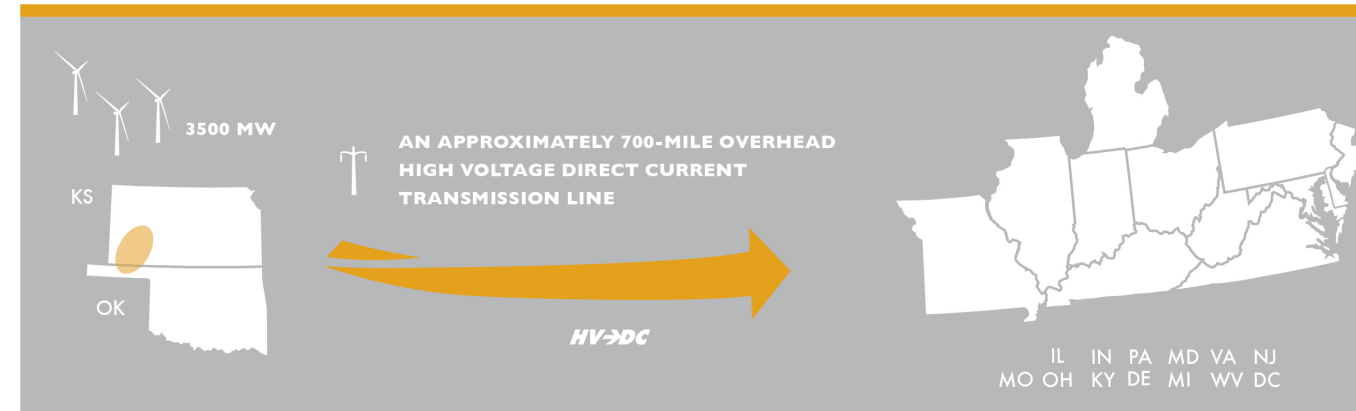


## ROUTING THE GRAIN BELT EXPRESS CLEAN LINE

Clean Line is developing the Grain Belt Express Clean Line in a way that attempts to minimize impacts on natural and cultural resources and existing land use. The Grain Belt Express Clean Line team is gathering a wide range of information through agency coordination, public outreach, existing geographic information sources, and field reconnaissance to inform the route planning process. Clean Line has retained the Louis Berger Group, a firm that specializes in transmission line planning, to assist in the route development and selection process.

The route planning process takes into consideration routing factors such as:

<b>Site-Specific Land Uses</b>	<ul style="list-style-type: none"> <li>Schools, parks, churches, cemeteries, residences, and other structures</li> <li>Airports, heliports, and other transportation facilities</li> </ul>
<b>Large Area Land Use</b>	<ul style="list-style-type: none"> <li>Residential, recreational, and commercial developments</li> <li>Agricultural land use and supporting infrastructure</li> <li>Designated natural lands (federal or state forests, refuges, wildlife management areas, and recreation lands)</li> <li>Existing linear infrastructure such as transmission lines, pipelines, interstate highways, and railroads</li> </ul>
<b>Biological Resources</b>	<ul style="list-style-type: none"> <li>Designated and known threatened, endangered, or sensitive species, habitats, and flyways</li> </ul>
<b>Visual Resource Factors</b>	<ul style="list-style-type: none"> <li>Scenic by-ways and overlooks</li> <li>Recreation facilities and trails</li> </ul>
<b>Cultural Resources</b>	<ul style="list-style-type: none"> <li>Designated or eligible national or state historic sites, monuments, features, and districts</li> </ul>
<b>Water Resources</b>	<ul style="list-style-type: none"> <li>Reservoirs, rivers, wetlands, streams, and lakes</li> <li>Water supply sources</li> </ul>
<b>Engineering Considerations</b>	<ul style="list-style-type: none"> <li>North American Electric Reliability Corporation (NERC) standards</li> <li>Geologic hazards and steep slopes</li> <li>Crossings of existing high voltage lines (&gt;345 kV)</li> <li>Crossings of major rivers and water bodies</li> </ul>



## ROUTING MILESTONES

The Grain Belt Express Clean Line team has spent a year and a half meeting with government agencies, conservation organizations, elected officials and other community leaders to identify potential routing opportunities and constraints. We have spent hundreds of hours analyzing geographic information sources, performing field reconnaissance, and reviewing feedback from stakeholders throughout the study area.



At the roundtable workshops, we would like your input on routing constraints and opportunity features in your area. We will use the information to inform the route planning effort for the Grain Belt Express Clean Line.

During and after the roundtables, the Grain Belt Express Clean Line team will continue to gather information from the public, agencies, existing geographic information sources, and field reconnaissance. Before identifying a proposed route, we will host public open houses.

Clean Line will seek regulatory approvals for the Grain Belt Express Clean Line from the relevant state regulatory commissions.

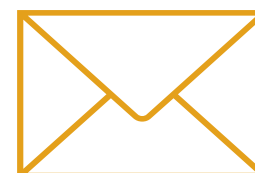
## WE WOULD LIKE TO HEAR FROM YOU!



Provide routing comments at this roundtable



Connect online at [www.GrainBeltExpressCleanLine.com](http://www.GrainBeltExpressCleanLine.com) or [www.facebook.com/GrainBeltExpressCleanLine](https://www.facebook.com/GrainBeltExpressCleanLine)



Send an email to [info@grainbeltexpresscleanline.com](mailto:info@grainbeltexpresscleanline.com)



Call our toll-free hotline 1-855-665-3438

**CLEAN LINE**  
ENERGY PARTNERS