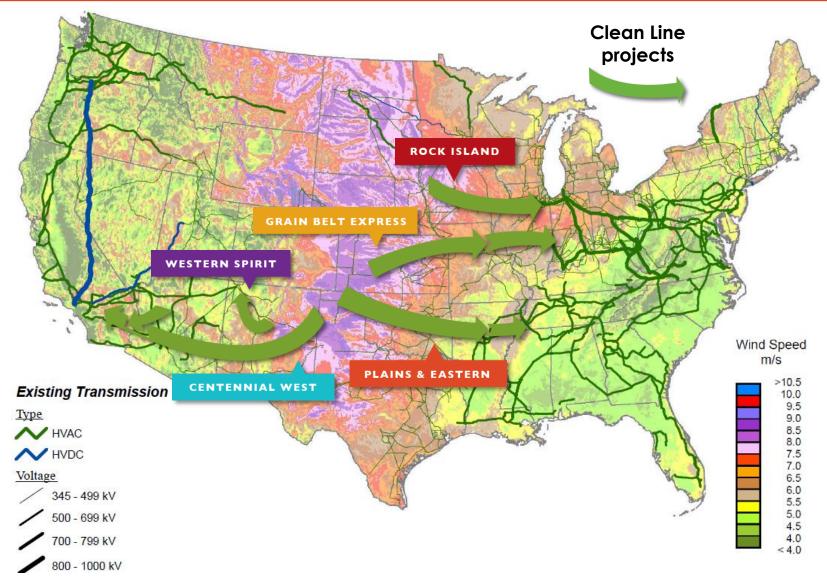
PLAINS & EASTERN CLEAN LINE

Presentation to the Joint Energy Committee of the Arkansas Legislature

> December 16, 2013 Fayetteville, Arkansas

CLEAN LINE

Clean Line's projects connect the best wind resources to load centers



National Grid is a key investor in Clean Line Energy



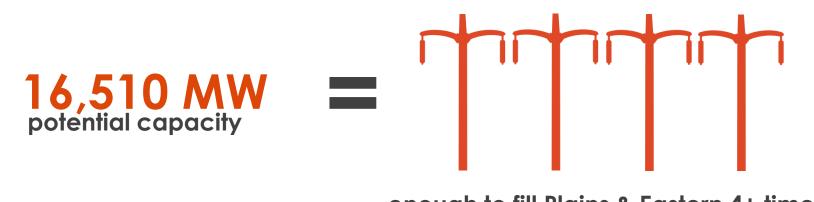
- National Grid brings extensive experience in building, owning, and operating large transmission projects in the United States and overseas
 - National Grid in the United States
 - owns and operates more than 8,600 miles of transmission
 - serves more than 7 million electricity and natural gas customers
- National Grid joins Clean Line's existing investors that include private equity firm ZBI Ventures

In late June 2013, Plains & Eastern issued a Request for Information to wind generators

Gathered information from wind developers in the Oklahoma Panhandle region that confirmed:

- High **demand** for Plains & Eastern transmission capacity
- Excellent wind resources, abundant production potential and **low prices**





enough to fill Plains & Eastern 4+ times

Note: Clean Line is aware of additional developers with projects under development in the region.

Plains & Eastern Clean Line will result in cleaner air and better conservation of water resources



ENVIRONMENTAL BENEFITS



10 million tons carbon dioxide reduced



23 thousand tons sulfur dioxide reduced

Source: Ventyx, 2012.





7 thousand tons nitrogen oxide reduced



135 pounds mercury reduced



3.8 billion gallons saved

Federal environmental review process for Plains & Eastern Clean Line began in December 2012

- NEPA requires that federal agencies consider alternatives, study the potential impacts of a decision, and receive public input on a proposed action
- DOE and Southwestern Power Administration considering participation under Section 1222 of Energy Policy Act of 2005
- DOE leading EIS and multiple agencies participating

NATIONAL ENVIRONMENTAL POLICY ACT PROCESS



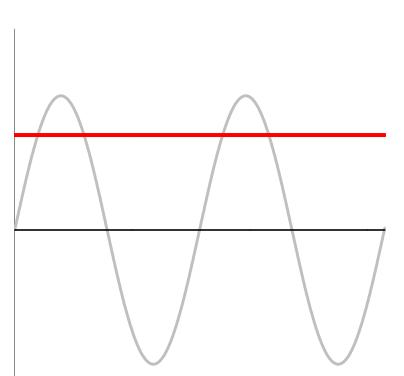


What is Direct Current?

- Alternating Current (AC)

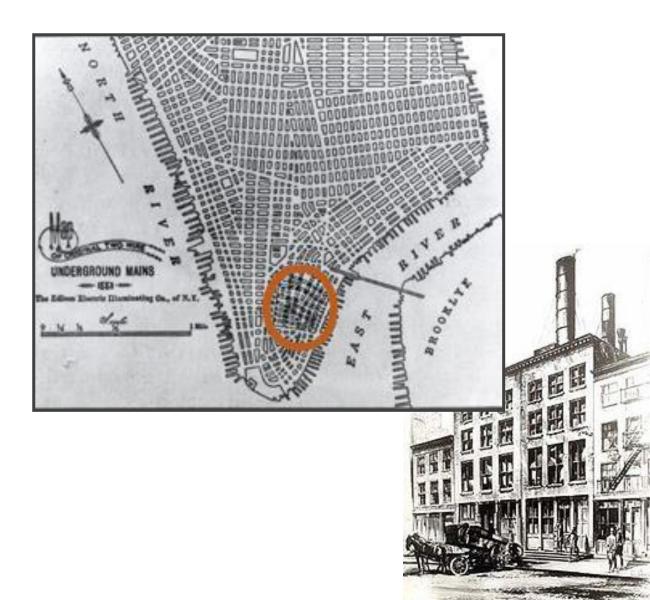
 Magnitude of current varies with time. Most of grid is AC
- Direct Current (DC)

 Magnitude of current is constant. Applications of high voltage direct current (HVDC) in U.S. and elsewhere.



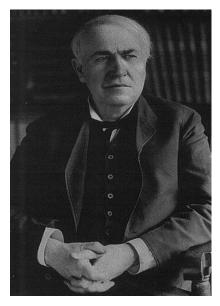
First centralized generating station was Direct Current Pearl Street Station: 255-257 Pearl Street, Manhattan

- Edison Illuminating Company
- 1882 1890
- 110 volts direct current
- 508 customers
- 10,164 lamps



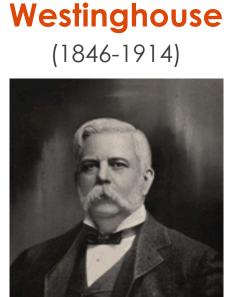
War of the Currents (late 1880s)

Thomas Edison (1847-1931)



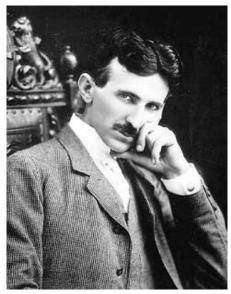
- Advocate of direct current (DC) power system
- Founder of General Electric

VS.



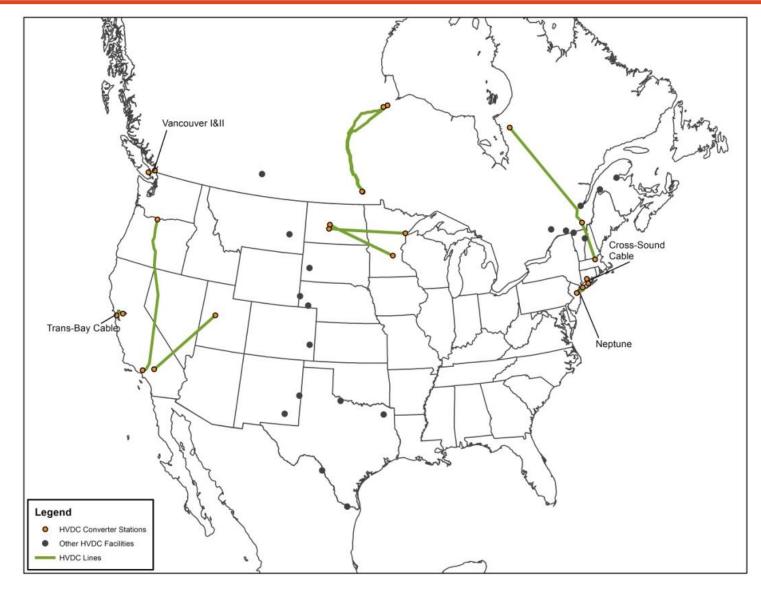
George

Nikola Tesla (1856-1943)

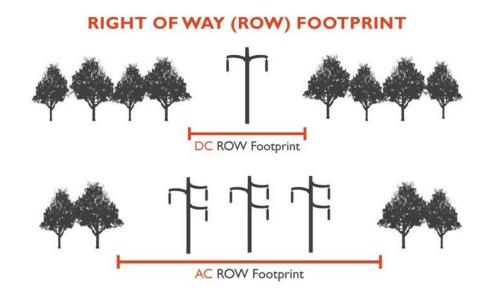


- Advocates of alternating current (AC) power system
- Founder of Westinghouse Electric Corporation
- Licensed polyphase machines from Tesla

HVDC facilities in North America



HVDC is the most efficient method to transmit large amounts of electricity over long distances



- More efficient Lower line losses
- Lower cost Requires less infrastructure, results in lower costs and lower prices for delivered renewable energy
- Improved reliability Control of power flow enhances system stability and lowers cost of integrating wind
- **Smaller footprint** Use narrower right-of-way than equivalent Alternating Current (AC)

Intermediate converter in Arkansas would deliver approximately 500 MW of clean energy

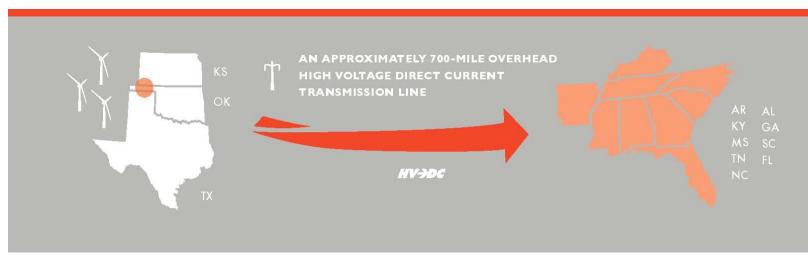




Typical Converter Station

Plains & Eastern Clean Line will deliver up to 3,500 MW of clean energy to the Mid-South and Southeast

PLAINS & EASTERN CLEAN LINE





\$2 BILLION IN PROJECT INVESTMENT



\$7 BILLION OF NEW WIND FARM INVESTMENTS



INCREASED MARKET COMPETITION



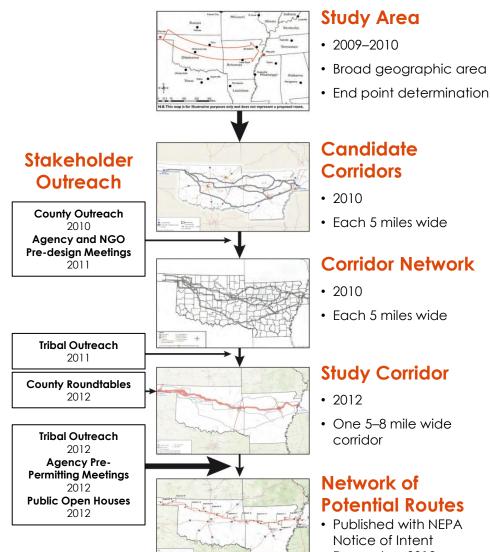
OVER 1 MILLION HOMES POWERED PER YEAR

Clean Line's iterative, multi-year routing process incorporates stakeholder input



Agency Pre-Design Meeting in Little Rock, AR

- Open and direct
 communication
- Work directly with stakeholders, public agencies and conservation groups
- Environmental responsibility principles



December 2012
One mile wide with segments

A methodical and transparent development process is underway that targets commercial operation in 2018







Wind Turbine bade en route from LM Windpower, Little Rock AR

Plains & Eastern Clean Line will result in significant economic benefits to Arkansas



INCREASED MARKET COMPETITION BENEFITS ELECTRICITY CONSUMERS

Consumer Benefits



HUNDREDS OF CONSTRUCTION JOBS

Jobs



MORE THAN 15 WIND ENERGY SUPPLY CHAIN COMPANIES LOCATED IN ARKANSAS MILLIONS IN ANNUAL REVENUES TO SUPPORT LOCAL COMMUNITIES

Lecale

Grades

Sauste Questa S catour

Coloria



CLEAN LINE ENERGY PARTNERS

WIND AND TRANSMISSION

Construction

Developer
 Logistics Provider

 Manufacturer
 Operations & Maintenance
 Transportation

SUPPLY CHAIN

PLAINS & EASTERN

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