

KY Power Up Public Meeting - July 6, 2010

Name	Address	City	Phone	Email	Did you receive a letter via mail?
Chuck Stagg	H.O.				<input checked="" type="checkbox"/>
Cherice Hunter	R				
Velma Hope	H.O.	4754 Hwy 136 west			
Kenneth Knight	H.O.				
Sam Lamm	1100				
Barry Grindward	R				
Dave Cowen	H.O.				
Chris Canning					
Spencer Ross					
Kent Edmondson					
Steve Edmondson					
Gulch Clean					
David Schlesier					
Dan Peppell					
Dennis Price					
Henry Waller					
Linda & Alan Daniel					
George M. McNaughey III					
Chuck Stinehart	Cleaner				

KY Power Up Public Meeting - July 9, 2010

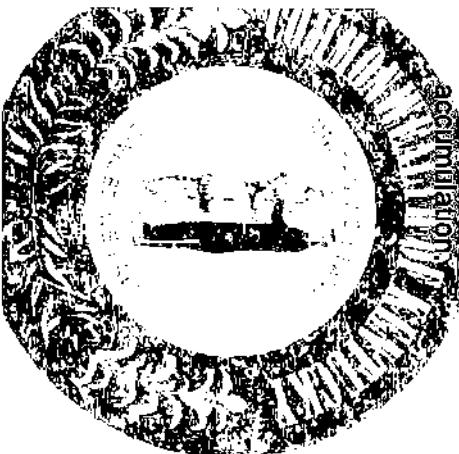
Name (Last-Name)	Address	City	Phone	Email	Did you receive a letter via mail?
Liz Mattingly	4285 Hwy 1299	Henderson	270-826-9576		
Murphy family	14189 Hwy 41 South	Robards	270-521-7536		
Peggy Autrey	3295 McElroy Rd	Robards	270-521-6681		
Pat Sargent	226 3rd Line St	Henderson	270-827-1410		
Sascia Haaselt					
Shane Quattlebaum					
Tony Gaudet					
Vern & Linda Williams	24335 Hwy 811 Olive City 42301		270-764-1991		
Ward Wrennmark	1089 Hwy 41 N	Robards	270-521-7262		
Ken Br	10433 Thomas Ridge	Robards	270-494-6967		

Benefits to Kentucky Residents

- No construction cost to Kentucky residents!
- Increases electricity import and export capability including access to more renewable energy;
- Enhances electric reliability and adds flexibility to the power supply in high demand or peak periods by relieving some of the load on the existing transmission system; and

• Improves overall transmission system safety and reliability by creating an additional source of electricity through a transmission network with stronger structures.

Structures are designed to withstand high winds and ice accumulation.



Who is Vectren?

Vectren Corporation (NYSE: VVC) is an energy holding company headquartered in Evansville, Ind. Vectren's energy delivery subsidiaries provide gas and/or electricity to more than one million customers in adjoining service territories that cover nearly two-thirds of Indiana and west central Ohio. Vectren's non-utility subsidiaries and affiliates currently offer energy-related products and services to customers throughout the Midwest and Southeast. These include gas marketing and related services; coal production and sales; and energy infrastructure services.

To learn more about Vectren, visit www.vectren.com.



Who is Big Rivers?

Big Rivers Electric Corporation is a custom-owned, not-for-profit generation and transmission cooperative (G&T) headquartered in Henderson, Ky. Big Rivers is owned by three not-for-profit member cooperatives that distribute retail electric power to more than 111,000 homes, farms, businesses and industries across 22 counties in western Kentucky. Big Rivers supplies the wholesale power needs of the member cooperatives and markets surplus power to non-member utilities and power markets. Big Rivers is a member of NERC and SERC.

To learn more about Big Rivers, visit www.blgrivers.com.



POWER UP
Indiana-Kentucky Electric Transmission Line
Increasing Electric Reliability for Western Kentucky & Southwestern Indiana

800.928.2222 • BV345@qk4.com
www.kypowerup.com

www.kypowerup.com

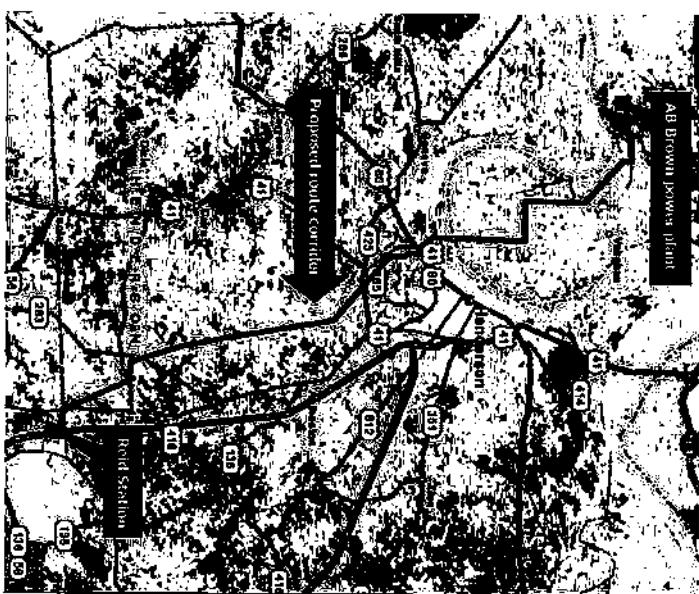
Project Overview

Vectren Energy Delivery (Vectren) has filed to construct a new transmission line connecting Big Rivers Electric Corporation's Reid Station in Webster County, Ky to Vectren's A.B. Brown plant in Posey County, Ind. This transmission line will reduce line overloads and increase reliability to the entire region.

Why is this line needed?

- Electric system reliability is crucial in today's environment. Outages can result in significant economic impacts and public inconveniences.
- Identified congestion on the electric transmission system in southwest Indiana and western Kentucky can limit access to available generation capacity in the energy markets.
- Limiting access to low cost generation capacity can result in higher energy costs to the systems constrained by congestion, which results in higher costs for their customers.

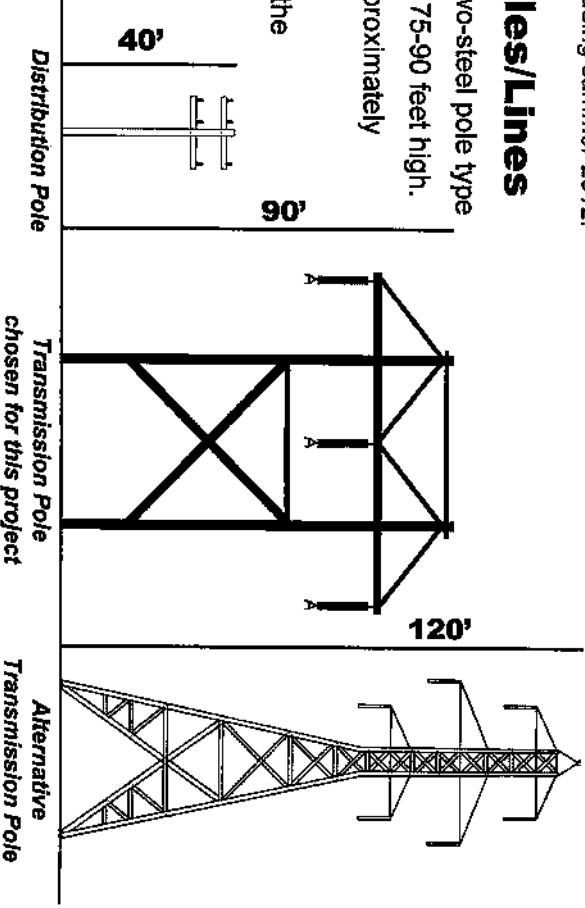
Proposed Route



Transmission Poles/Lines

- Most structures will be the two-steel pole type (cover photo) approximately 75-90 feet high.
- Typical structures will be approximately 900 feet apart.
- Steel poles will age to have the appearance of wood poles.

- ## Right of Way and Land Owner Information
- Right of way will typically be 150 feet wide and approximately 60% will be alongside existing easements.
 - Fair compensation will be paid to landowners who may have transmission facilities on their property.
 - Construction crews will work with land owners for clearing trees and disposal of the wood.
 - Vectren and its contractors will perform all environmental soil erosion mitigation during the construction.
 - The landowner will be compensated and kept whole for any losses of crop value or similar short-term impacts during construction.



Visit www.kypowernup.com for an online resource to this project.

We hope this information is helpful and we look forward to working with you on this important regional electric reliability project.

The agent will be prepared to review the plans and the easement requirements in detail. They will be prepared to make an offer for the requested easement. The job of the agent is to answer your questions and concerns, and will have the ability to close the transaction at that time!

Once the above groups are nearing completion of their work, you will be visited by a Land Agent. Our Engineers will receive the information obtained through survey, environmental, design standards and regulations, and then complete the final plans to make the project ready for construction. They may make special studies of soils and/or adverse conditions to determine the most effective means and methods of construction.

An Ecologist will assess impacts to wetlands, animal species and note any unusual environmental issues of concern.

A Surveyor's job is to accurately describe and determine not only the property areas affected by the project, but to verify information from official records on file in the Court House. This will be the basis of determining the land over which, an easement may be requested. You will still own and have use of your lands. While we will need to be on your property during engineering, construction and design, for the most part, our future disturbances are normally limited only for maintenance purposes. We are especially mindful of crops and livestock.

The Appraiser will assess the impacts to properties along the line and will identify like properties and values. While they may not visit every parcel, they will study similar properties as a group. If you have information you wish to share with them prior to a visitation, please feel free to contact KYPOWERUP, at the above phone number or via email.

Each parcel owner whose property may be visited will be contacted in advance by letter, email and/or phone and will have opportunity to comment. If a person cannot produce identification and/or property title, KYPOWERUP, Big Rivers Electric, Vectren Energy, Q4 Engineering and Red Wing Environmental Services, participating companies and organizations are KYPOWERUP, Big Rivers Electric, Vectren Energy, Q4 Engineering and Red Wing Environmental Services.

In early Fall 2010, you may be contacted by appraisers, surveyors, ecologists and engineers, as they gather essential information for completing plans, caring for the environment and determining impact for the project. While much of the preliminary design is underway, much remains to be done. When the final project design is completed and ready for construction, you will be visited by a Land Agent.

What Happens Next?

800.928.2222 • www.kypowerup.com

Indiana-Kentucky Electric Transmission Line





Proposed Transmission Line Structures

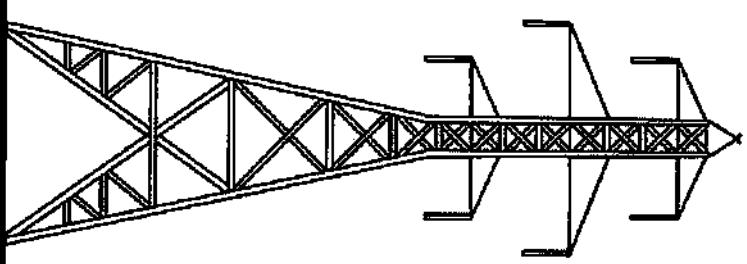
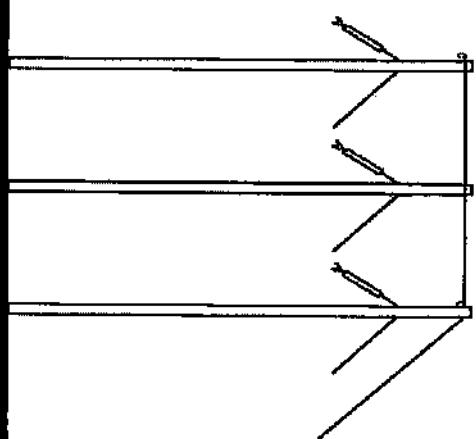
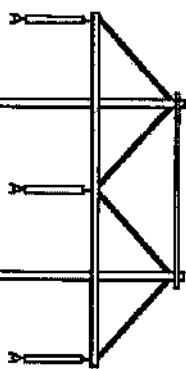
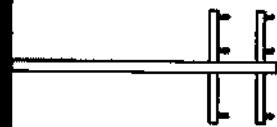
Typical transmission line structure
(not selected for this project)

120'

Pole structure chosen
for this project
 $\approx 90'$

3-pole structures would be utilized for
some line angle and dead end locations
 $\approx 90'$

Typical distribution line pole found
in residential neighborhoods
 $\approx 40'$



Summer 2012

• KYSS is Growing

Owners

Meetings With Property

Summer 2010

Process Overview

Indiana-Kentucky Electric Transmission Line





and how could it affect me?

EMF What is

Indiana-Kentucky Electric Transmission Line

KY POWER UP



800.928.2222 • BV345@qk4.com
www.kypowerup.com

to 300 GHz; <http://www.hetlet.org/publicaffairs/bepaq/postel02final.pdf>
alogical Effects of Low-Level Electromagnetic Fields on Frequencies Up-
to 300 GHz; <http://www.hetlet.org/publicaffairs/bepaq/postel02final.pdf>
UK Institution of Engineering and Technology, The Possible Harmful Ef-
fects of Low-Level Electromagnetic Fields on Humans (BEPAC)
Health, June 2002)

Institute for Environmental Health Safety and the National Institute of
of Electric Power: Questions and Answers (PDF, 11.4 MB; National
Sources: EMF - Electric and Magnetic Fields Associated with the Use
of Electric Power: Questions and Answers (PDF, 11.4 MB; National
Institute for Environmental Health Safety and the National Institute of
Health, June 2002)

that harmful effects occur in humans due to
scientific evidence to date still does not indicate
also concluded overall that "the balance of
The Institute of Engineering and Technology
low-level exposure to EMFs."

this agent is causing any degree of harm."
only marginal, scientific support that exposure to
ratory support for these associations provide
demographic associations and lack of any labo-
a health hazard is currently small. The weak epi-
"The probability that ELF-EMF exposure is truly
rector of the NIEHS reported to Congress that
(ELF) EMF research program in 1999, the DI-
At the completion of the extremely low frequency
utility companies joined many others during
the 1990s to provide funds for the National Insti-
tute of Environmental Health Sciences (NIEHS)
to run the EMF Research and Public Information
Dissemination Program so that independent
scientists could determine whether exposure to
EMF involves a risk to human health.

Utility companies joined many others during
the 1990s to provide funds for the National Insti-
tute of Environmental Health Sciences (NIEHS)
to run the EMF Research and Public Information
Dissemination Program so that independent
scientists could determine whether exposure to
EMF involves a risk to human health.

away from the source.
strength of EMF drops off quickly as you move
and how long you stay near the source. The
source, how far away you are from the source
is determined by how strong the field is at its
source (e.g., a blender, computer, or power line)
with the flow of current. Exposure to any EMF
voltage, while magnetic fields are associated with
power lines. Electric fields are associated with
whether it is wiring, appliances, computers, or
power lines. EMF are found wherever there is electricity,

Electric & Magnetic Fields (EMF)



Global Positioning System (GPS)
Will transmission lines interfere with GPS?

Indiana-Kentucky Electric Transmission Lines

KYPOWER UP



800.928.2222 • BV345@qk4.com
www.kypowerup.com

Source: Use of Global Positioning System (GPS) Receivers Under Power-Line Conductors (IEEE Transactions on Power Delivery, Vol. 17, No. 4, October 2002.)

- Generators
- AC-DC converters
- Fluorescent lights
- TV and computer monitors
- Gasoline engine ignition systems
- Transmitters
- TV, communications and radar
- Out-of-band emissions by radio, signal interference:

Known potential causes of GPS satellite

A series of measurements to evaluate GPS signal reception quality under power lines was performed in both fair and foul weather conditions and GPS receiver reliability under power lines was measured. The signal strength of a GPS receiver across easements of two different 345-KV transmission lines like those that will be built in your area. The signal strength of a GPS receiver across easements at one-second intervals while driving across the 345-KV easements and directly under the transmission lines. The results revealed no practical change in each satellite's signal strength.

According to a study by the Institute of Electronics and Electrical Engineers (IEEE), power-line conductors are unlikely to cause signal degradation to GPS signals. The study noted no loss of satellite signals as the GPS receiver moved across a power line easement. A GPS receiver relies on a dispersed constellation of satellites - at least four and often more.

Global Positioning System (GPS)



Will transmission lines
interfere with electronic
devices?

Electronic Devices

Indiana-Kentucky Electronic Transmission Line

KY POWER UP



800.928.2222 • BV345@qk4.com
www.kyponerup.com

There have also been reports of interference with AM and CB radio reception, particularly when directly under any power line. The amount of interference depends on the type of radio and antenna.

However, on rare occasions TV reception problems may occur when using conventional analog receivers and can often be solved by either changing or relocating the television antenna.

- Cellular Phone Service
- Wireless Internet Systems
- Cardiac Pacemakers
- Satellite Television
- Cable Television

There are **NO** reports of transmission lines affecting common electronic devices such as:

Electronic Devices



What is being done to
protect the local residents
and environment?

Safety & Environment

Indiana-Kentucky Electric Transmission Line

KY POWER UP



800.928.2222 • BV345@qk4.com
www.kypowerup.com

Major environmental features, such as protected areas, environmentally significant areas and species at risk have been identified on the potential routing maps as constraints to be avoided when possible.

Environment

The safety of stakeholders is a top priority for the Vectren team. The transmission line will be designed and constructed to meet all applicable regulations, standards and codes, which have been developed with a view to ensuring public safety. Vectren has Emergency Response Plans (ERPs) to respond to events such as tornados and other emergency scenarios. These plans are coordinated with local municipalities including fire and police departments. In addition, Vectren has both internal crews and contractor crews ready to respond in the event of a downed line or pole.

Public Safety