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Missouri Public  
Service Commission

Good afternoon and thanks to the commission for being here

I am a lifelong resident of Randolph County and my wife and I live on a small farm that has been in her family for exactly 100 years. I'm here in support of the grain belt clean line project

Gentlemen... I hear the comments and innuendo about Direct Current Power having adverse effect on our Health and the Environment. After many hours of research I can find no substantial 3rd party research that Bares out any of this. I have made my livelihood over the last 40 yrs. raising cattle in Randolph Co Mo. So I will refer back to that arena to share the results of keeping cows under and around high voltage D.C, power lines, in a Wisconsin and Minnesota research project where there are several large high voltage Direct Current Powerlines carrying electricity west into the Dakotas.

In this study 800 Holstein dairy cows were separated into two identical groups. One placed in their regular pastures and milking barns the other place under a high voltage D.C. current power line. A dairy cows production can be adversely affected by as little as the unexpected clapping of hands, or by a barking dog or as simply as a stranger being present in the milking parlor. At no time in the 5 year study were there any differences recorded in the milk production, reproduction, morbidity or mortality in the two sets of cows. I understand that the physiology of a cow is not the same as that of a person, but these animals are scrutinized almost every day of their lives for health, productivity and economic value an no adverse effects associated with Direct Current power of were ever found.

Also in the North West United States there are large high voltage D.C. Powerlines dropping power from Oregon and Washington states into north and central California. These high voltage D.C. power lines carry Virtually the same power as the proposed Grain belt clean line project and have been there providing power For many years and no adverse effects are reported in California. If the dear citizens of California cannot find fault with D.C power crossing and being used in their state I think I can be comfortable also., Direct Current power already exist in Michigan ,Wisconsin, The Dakotas , Washington, Oregon, California and most other States as well as Canada and the whole of Europe I believe that it will be safe for Missourians.

Gentlemen... I hear people say that the Clean Line projects was not well publicized. The first time I heard of this project was in early spring of 2012 when clean line had public meetings in Moberly Mo to look for routing area. The public was encouraged to participate in identifying area to build and areas not to build as the



Grain Belt Clean Line project as it came through our communities. You will remember that at this time there were 3 possibly tracts for the power lines to run. I expect that those meetings and the community members attended are all well documented. In Moberly Mo. there were over 40 local participants in attendance and this meeting was followed up with meetings later that year and in the next spring. You can hardly say this was a secret proposal.

Gentlemen... I hear that it's not right to use Eminent Domain to cross the state of Missouri. Eminent Domain has been a part of English law since the 1620s. My experience is that in 2005 there was talk of a pipe line coming along an existing pipe line that traveled past the home that my wife and I had built and lived in for 4 years on a private 10 acre lake in Randolph County. Were we concerned "you bet" but no one had approached us to do public meetings, In August of that year the pipe line arrived and shared that they would be putting a 42 inch natural gas line under the attached garage of my home. My neighbors could not wait to sign up, even my own family called at noon to tell me they would settle at 1 o'clock that same evening. When the time came I took the time to study and to research the true value of my property and WE got every penny we asked for. Missouri has some of the most favorable Eminent domain laws of any State in the nation. Was it fun, NO! But it turns out that now people that I do not know in an area from Cleveland Ohio to New York City are benefiting from the half million cubic feet of natural gas to heat and cool with each year. Since 2004 there has been 3 pipelines cross Randolph Co. and to the best of my knowledge of the hundreds of land use agreements settled and only 1 ever went to a legal hearing. The owners and builders of these line were good cooperate citizens, giving to charity, supporting local youth and continue to contribute to the communities of Randolph Co today.

Gentlemen... I hear that the power is not needed in Missouri, but in the early part of 2014, a polar vortex moved into North And Central Mo, The temperature dropped to the minus 12 to 15 degree range. Many of you will remember it was the last really bad cold weather We have had lately in Missouri. This was not an extremely long cold period, but the power grid was stretched to capacity. We were critically close to a brown out or a total power failure do to over loads. With Temperatures so cold a total power outage would freeze and damage everything from livestock waters to new homes and businesses.

With everything to lose and all generation running at capacity the local power grids got as much as 11 1/2 percent of the power that we needed that cold night, from wind energy.

And lastly I hear that this project is about making money. And I ask, When in this great country has it become  
A bad Idea to make a profit.

When has it become a bad thing to hire employees and pay a living wage? When has it become a bad idea?  
to pay state and local taxes. The Grain Belt Clean Line project will in many cases have the same or more  
assessed tax value as all of the agriculturally assessed land, in each of the county's that it crosses. This is  
significant for rural counties of Missouri .To those of you who would disagree I ask you to go to the public  
and ask for a doubling of your county road levy, or school bonding capability or county general revenue tax

When has it become a bad thing to transport goods and services across state lines to benefit fellow  
Americans, in neighboring states, to have cheaper utility cost and more productive businesses, and a good  
renewable source of energy. We would certainly like to think, and would hope the people of Kansas, Illinois,  
and Indiana would do the same for the citizens of Missouri.

Thank you for your time and the effort that you put into the work to do here today. I ask that you support  
the Grain Belt Clean Line project with a certificate of need.

*Jerry Crutchfield*  
*Dec 14 2016*



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