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Suicide

On the KDLO 5:30 news last night there was a story that mentioned suicide. It was stated that: "suicide is the **second leading cause** of death for children between the age of 5-15 as well as young adults 15-24 in South Dakota. This caught my attention in that only a day or two before I had found a recent article that showed evidence that wind farms lead to significant increases in suicide. I would like to provide that article to the PUC but am waiting on approval from the author."

PTC/Property Value Guarantee

Refer to page 6.5 of the application.

"Consequences of Delay

If the Project is delayed, the Project's benefits would be reduced. Specifically, the Project must be constructed by the end of 2020 to receive 2.5-cents per kilowatt hour (kWh) Production Tax Credit (PTC). If the Project does not reach operation until 2021 or later, the Project will not qualify for 100 percent of the PTC; the PTC per kWh amount will decrease by 20 percent each year, until the Project is placed in service."

This 2.5-cent tax credit, assuming 40% efficiency, will generate \$271,647,600 dollars over the first 10 years of operation. That is more than a quarter of a billion dollars, which is over 2/3 of the proposed facility cost estimate. *"This estimate includes lease acquisition; permitting, engineering, procurement, and construction of turbines, access roads, underground electrical collector system, a Project Substation, Transmission Facility, an O&M building, a supervisory control and data acquisition (SCADA) system, and up to four permanent MET towers; tax payments, landowner payments, and Project financing."*

There are about 20 homes within or surrounded by this project's footprint which are owned by individuals that are non-participants. I own and live in one of those homes. I have requested our investments in our homes be protected by a property value guarantee. Invenergy's response is that turbines will not negatively affect

home value, if that is the case than there should be no problem. Provide us with a property value guarantee and if there is no devaluation of our property it is just a piece of paper of no value. If Invenergy is wrong then the guarantee provides us with financial protection.

Remember we tax payers just gifted Invenergy more that ¼ billion dollars and Invenergy claims that there will be no negative effects to property values.

Therefore please require property value guarantees.

Transmission Grid

On January 9th the Minnesota Society of Professional Engineers held a workshop entitled "Minnesota's Electrical Infrastructure Today and Beyond". One of the presenters was an employee of Midcontinent Independent System Operator (MISO). MISO is an essential link in the safe, cost-effective delivery of bulk electrical power across much of North America. He spoke on "Renewable Integration Impact Assessment". He stated that "Renewable energy is growing: and asked the question will it significantly impact the grid"? In order to answer that question MISO performed a Renewable Integration Impact Assessment that seeks to find inflection points of renewable integration complexity. Interim results indicate integration complexity increases sharply between 30-40% renewable penetration. Can the problems be solved was asked. Yes but it will take money. Who will pay? The consumer will pay as usual.

I have provided you with information on how to access the Jordon Bakke's handout from this workshop.

I am concerned that the Power Grid is not ready to efficiently handle the large increase in wind power that is currently being proposed in SD.

There are so many unresolved issues regarding this project that I cannot support its approval.

Date: 01/24/2019 [12:48:00 PM CST]
From: Jordan Bakke <JBakke@misoenergy.org>
To: jnhenslin@itctel.com
Cc: Alison Archer <aarcher@misoenergy.org>
Subject: RE: [EXT] RIIA handout at January 9th meeting

Jon,

By hand-out do you mean a paper copy of the presentation I gave? I didn't have any additional material.

If this is the case I am fine with it. It is a standard presentation I have given in many different forums.

Thanks,

Jordan Bakke
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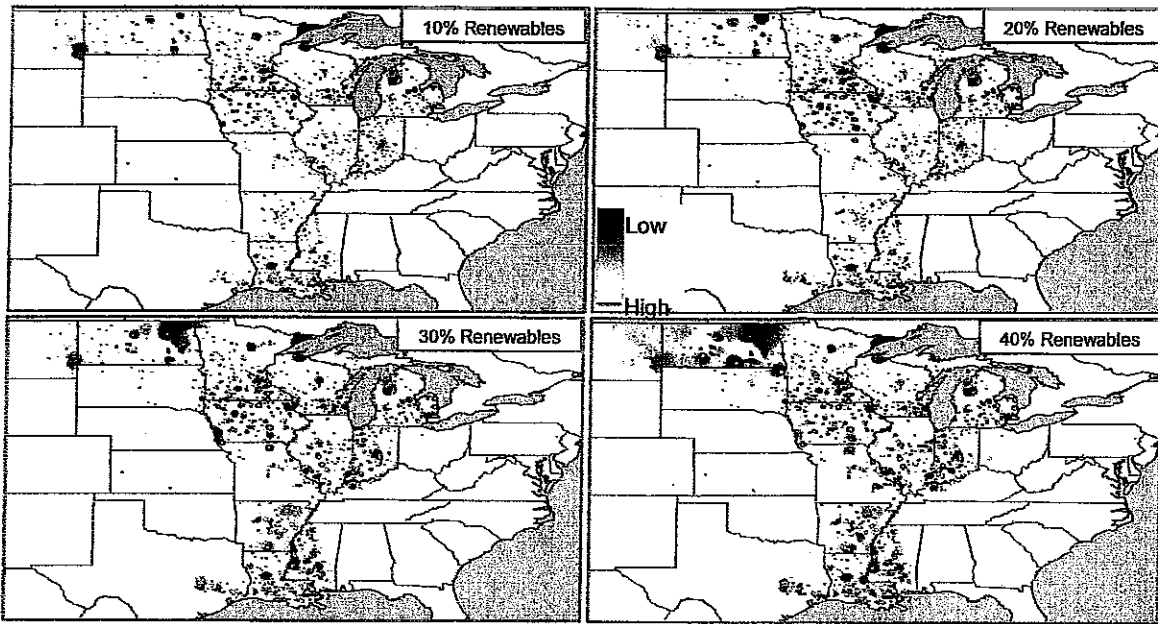
From: jnhenslin@itctel.com <jnhenslin@itctel.com>
Sent: Thursday, January 24, 2019 12:27 PM
To: Jordan Bakke <JBakke@misoenergy.org>
Subject: [EXT] RIIA handout at January 9th meeting

External E-mail: Please be cautious and evaluate before you click on links, open attachments, or provide credentials or data.

Jordan may I share your handout from the January 9th presentaion to MSPE with personnel of the South Dakota Public Utility Commission?

Jon Henslin PE (retired)

Potential system stability issues greatly increase at 40% penetration



- Short Circuit Ratio (SCR) is an indicator of the system's strength to deal with disturbances
- RIIA uses a Weighted Short Circuit Ratio (WSCR) as it better captures systems with higher renewable penetrations

Questions?

Jordan Bakke jbakke@misoenergy.org

All RIIA-related documents can be found on MISO's web page.

[Home > Planning > Transmission Planning Studies and Reports > Renewable Integration Impact Assessment](#)

