

# Landowner Alliances for Transmission Corridors

Rocky Mountain Farmers Union  
Bill Midcap, Director, External Affairs  
7900 E Union Ave., Suite 200  
Denver, Colorado 80237

*Everyday more and more people believe---and that  
is when dreams become reality*



To achieve the transformation of our nation's electricity system that is needed to expand our renewable energy, energy efficiency and national security needs, we will have to re-evaluate the way electric transmission corridors are developed.

More and more landowners with vested interests are opposing new lines being sited on their properties.



Some farmers and ranchers see the development of renewable energy as an opportunity for a new commodity to increase profitability.

Few have seen the siting of transmission lines as a positive. An across the fence appraisal of productive farm or range land for a one time payment for an easement that extends for years is just not that exciting.

Some landowners ask “If eminent domain is such a great deal for the public why are utility companies raking in profits wheeling electricity across my land?

Why am I the only one asked to give up rights to my property for the good of others when utilities can rake in profits for their investors?

Do any of the large DC lines that are being promoted do anything positive for my operation or even my rural community?”



Bottom line is landowners just want some equal considerations when easements are sited. More often than not our urban communities need greater access to what rural communities have, this includes open space, roads, rail, and utilities.

There are certainly some equity and fairness questions to be asked as private property owners are asked to provide easements that affect future generations of ag producers, who essentially are provided nothing for an easement that may last well until after they are gone.



# How to contact me:

Bill Midcap  
Rocky Mountain Farmers Union  
303-752-5800  
[bill.midcap@rmfu.org](mailto:bill.midcap@rmfu.org)

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For the examples we are addressing today let's focus on large kva transmission. Some projects in the west are using 500 kva or larger. The TransWest Express and the Zephyr are only two such lines being proposed in the West, both using large steel structures and large conductor that can span up to 1000 feet.

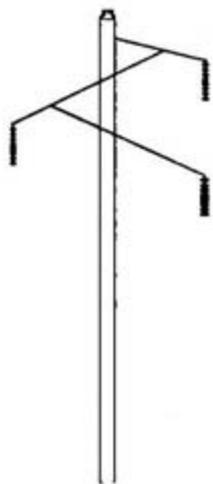


# Utility Easements

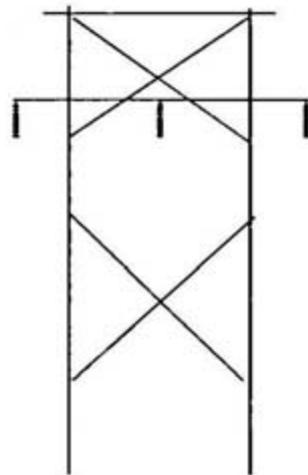
- Typical ranch in eastern Colorado \$550/acre
- Typical dry farm in eastern CO \$800/acre
- Let's use the dry land appraisal at \$800/acre
- 200' corridor 1 mile long = 24.25 acres
- Utility would pay a one time payment of \$19,400 for a the easement
- Includes siting of 5 or 6 steel structures/mile
- Estimated costs for 1 mile of HVDC line/\$4,000,000
- >0.5 % =cost of construction for easements

# Utilities could benefit from lack of NIMBYisms.

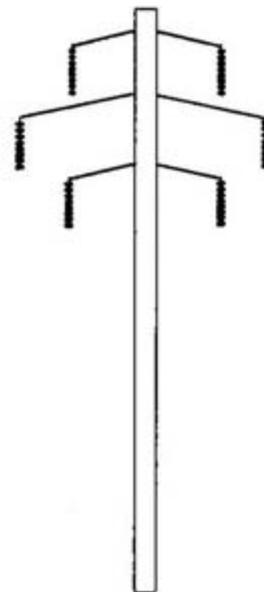
- Savings in court costs
- Timely siting of transmission
- In depressed areas we have seen landowners move positively to promote lines on their property



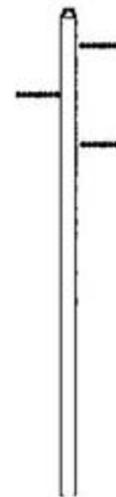
single-circuit davit



H-frame



double-circuit davit



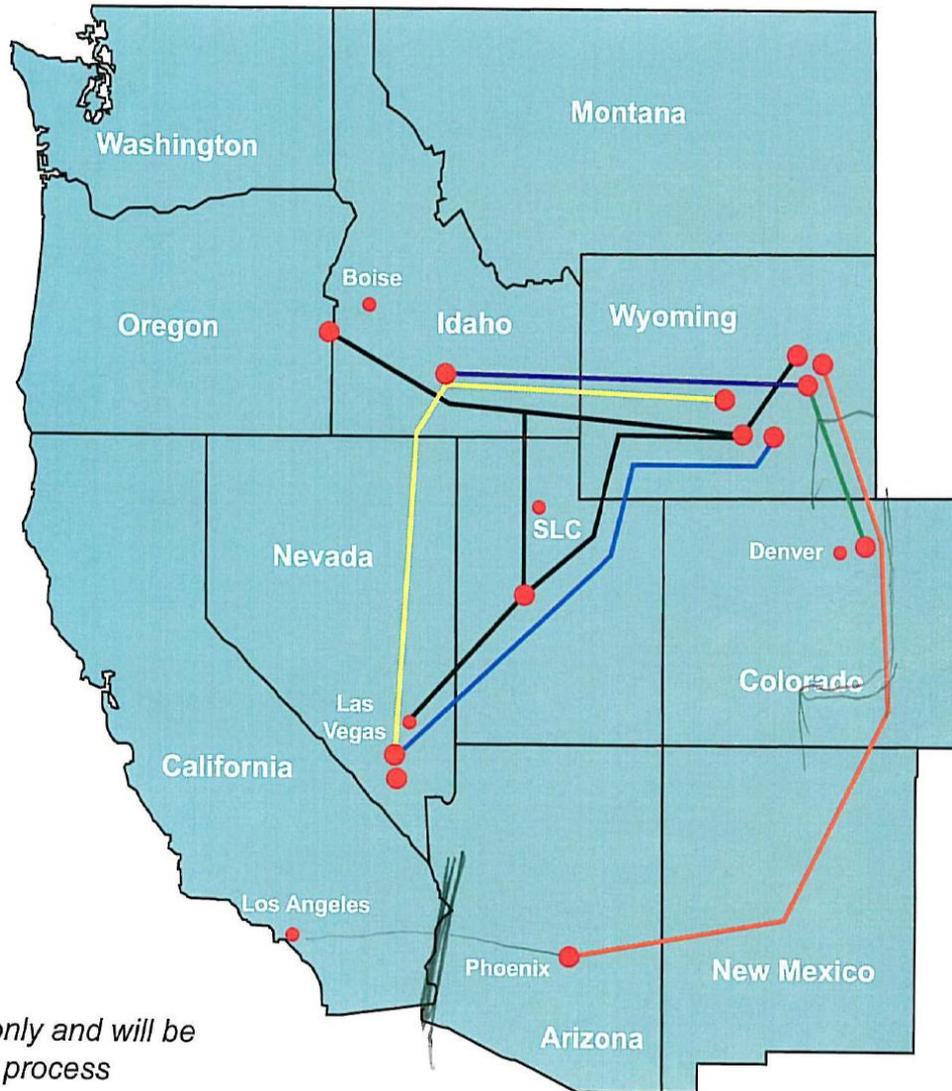
horizontal line post

# Landowner Transmission Corridors

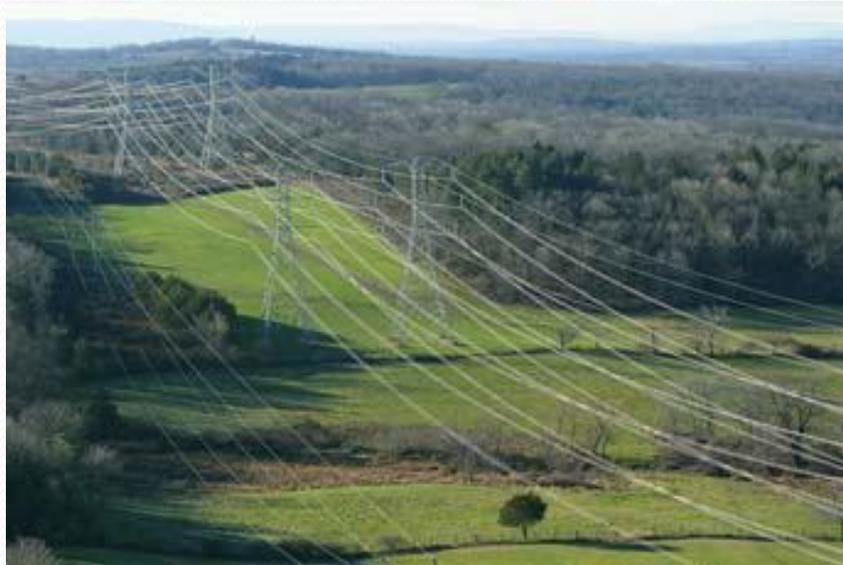
- Not unlike landowner wind farms
- Smaller corridors w/annual revenue streams in 3 states.
  - New Mexico---Texas---Montana
- Annual revenue streams are small but an advancing trend.
- Used for connecting smaller facilities to a larger grid sending RE to population centers

### Projects

- Wyoming-Colorado Intertie 
- Energy Gateway (West & South) 
- TransWest Express 
- High Plains Express 
- Zephyr 
- Overland Intertie 



*Routes shown are for illustrative purposes only and will be finalized following a comprehensive review process*



# FOUNDATIONAL PROJECTS BY 2020



**DRAFT**

## CAISO

- CAISO02 Sunrise
- CAISO03 Bythe-Devers
- CAISO04 Tehachapi

## SSPG

- SSPG02 SWIP South
- SSPG06 TCP Harry Allen - Northwest
- SSPG07 TCP Northwest – Armagosa

## SWAT

- SWAT01 PV-NG#2
- SWAT06 Pinal Central – Tortolita
- SWAT07 Southeast Valley (SEV)
- SWAT08 PV - Morgan

## CCPG

- CCPG02 Pawnee – Smoky Hill
- CCPG03 Waterton- Midway
- CCPG04 San Luis Valley

## NTTG

- NTTG01 Gateway South Phase 1
- NTTG02 Gateway Central Phase 1
- NTTG03 Gateway West Phase 1
- NTTG05 Hemingway – Boardman
- NTTG06 Cascade Crossing

## CG

- CG01 I-5 Corridor
- CG02 West McNary
- CG03 Big Eddy – Knight
- CG04 Little Goose Area Reinforcement

## BCTC

- BCTC01 Nicola – Meridian
- BCTC03 BC-US Intertie

## Alberta AESO

- AESO03 1202L Conversion
- AESO04 Heartland
- AESO05 West HVDC
- AESO06 East HVDC
- AESO07 Fort McMurray - East Line
- AESO08 Fort McMurray - West Line

### Legend

- 500 kV Single Circuit Line
- 345 kV Single Circuit Line
- == 500 kV Double Circuit Line
- == 345 kV Double Circuit Line
- - - - DC Circuit (various voltage)
- ✦ Termination Substations
- ◇ Intermediate Substations

# POTENTIAL PROJECTS BY 2020



**DRAFT**

## CAISO

- CAISO01 C3ET

## SSPG

- SSPG01 SWIP North
- SSPG03 SNIP
- SSPG04 Harry Allen – Eld/Mead
- SSPG08 Blackhawk - Amargosa

## SWAT

- SWAT02 PV-Colo. River
- SWAT03 Navajo Transmission Project
- SWAT04 SunZia
- SWAT05 High Plains Express

## CCPG

- CCPG01 WCI
- CCPG05 Lamar Front Range
- CCPG07 Pawnee - Daniels Park
- CCPG08 Pawnee – Story

## NTTG

- NTTG01 Gateway South Phase 2
- NTTG02 Gateway Central Phase 2
- NTTG03 Gateway West Phase 2
- NTTG04 Hemingway-Captain Jack
- NTTG07 MSTI
- NTTG08 Chinook
- NTTG09 Zephyr
- NTTG10 Overland
- NTTG11 Transwest Express
- NTTG13 Colstrip Upgrade

## CG

- CG05 Juan De Fuca Cable #1
- CG06 Juan De Fuca Cable #2
- CG07 West Coast Cable

## BCTC

- BCTC02 CNC including Devils Gap

## Alberta ESO

- AESO02 Northern Lights

### Legend

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