



ATC Stakeholder Update 2009 Economic Planning Projects

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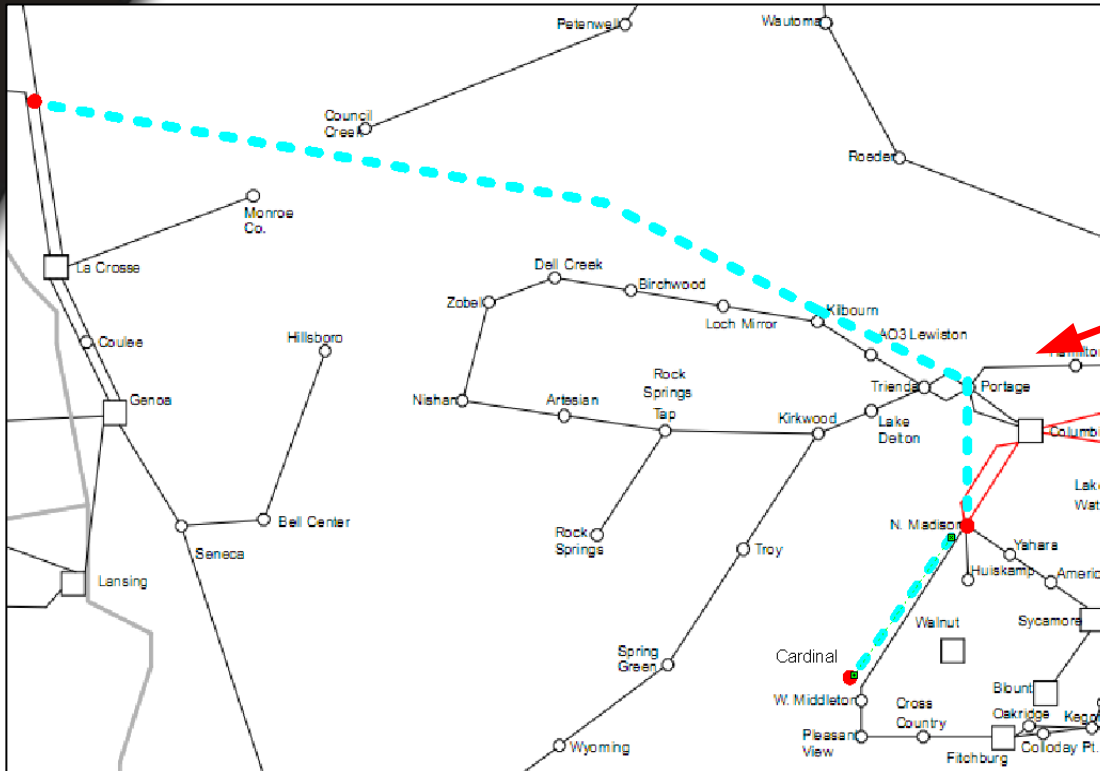


Projects to Analyze

➤ 2009 Projects to study

- 1) North La Crosse – Madison 345 kV Project
- 2) Lore – Spring Green – Cardinal 345 kV Project
- 3) Option 1 + Option 2
- 4) Genoa – North Monroe 765 kV Project
- 5) Bain – Zion Energy Center 345 kV Project

North La Crosse – Madison 345 kV

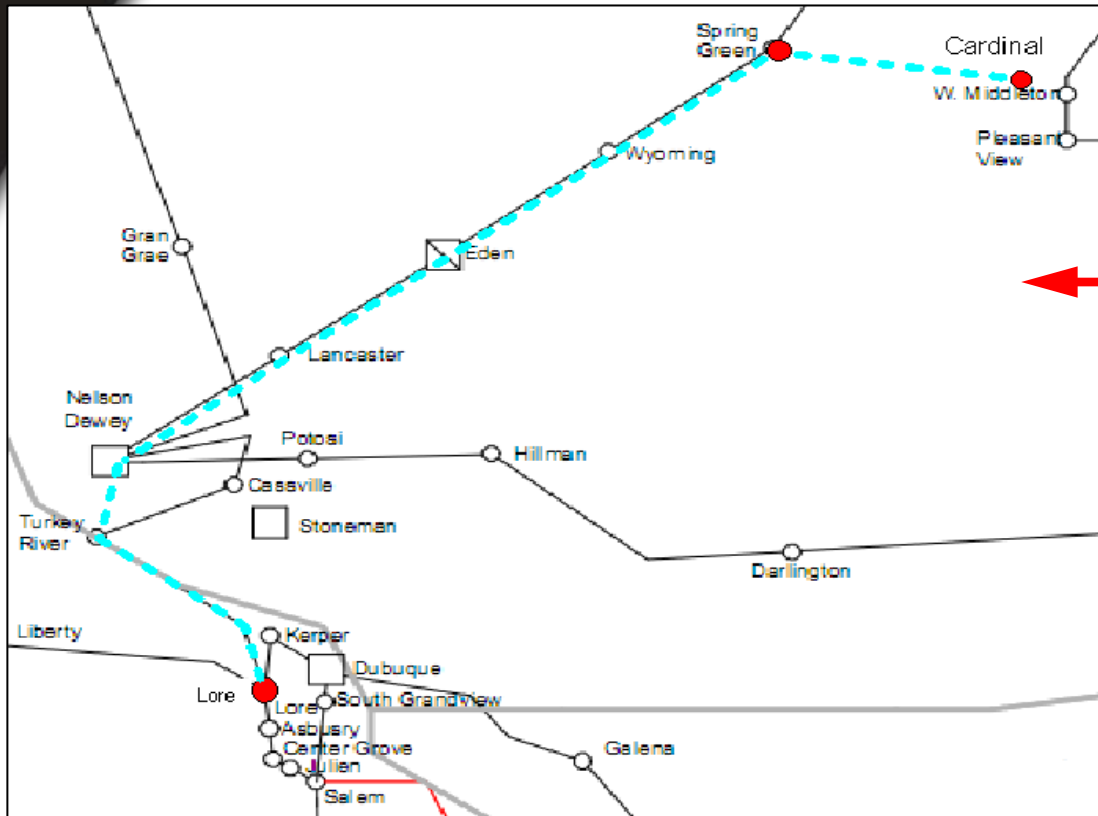


345 kV mileage estimate = 158 miles (from PSS/E ideo)

These drawings are for informational purposes only and do not portray actual transmission line additions or potential routes



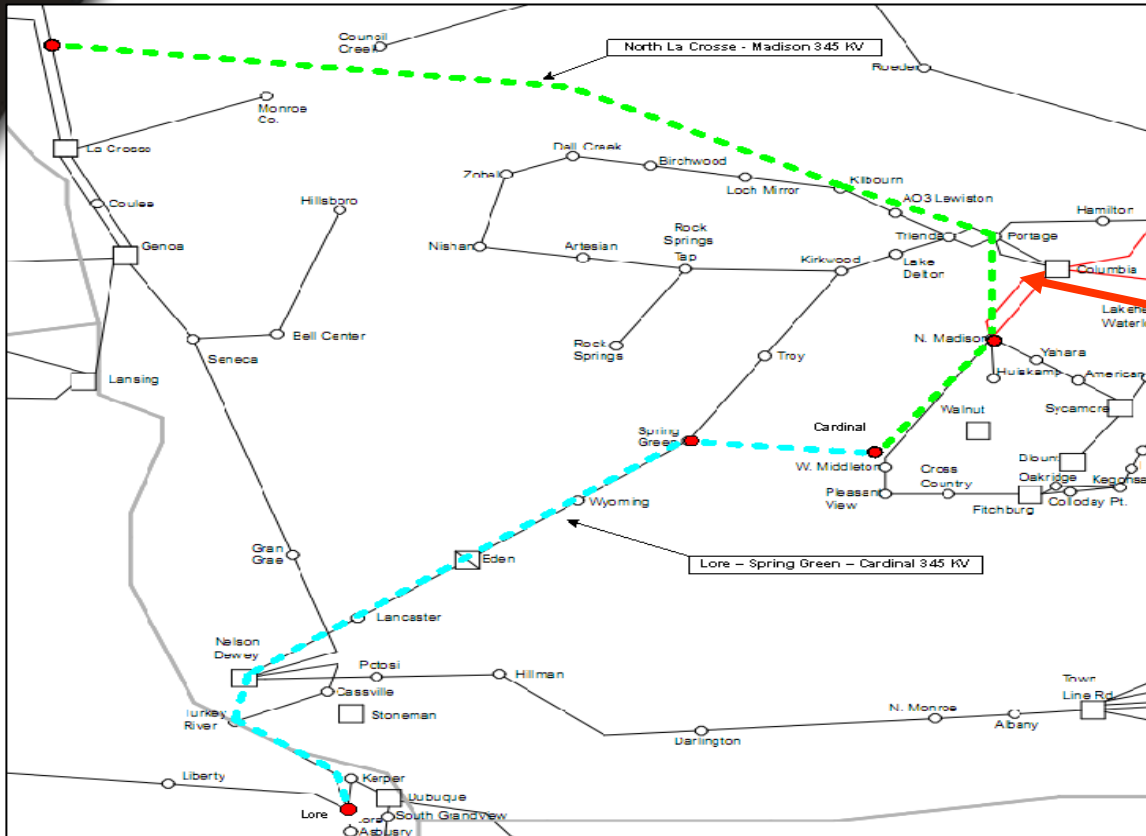
Lore – Spring Green – Cardinal 345 kV



345 kV mileage estimate = 108 miles (from PSS/E idev)

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North La Crosse – Madison 345 kV & Lore – Spring Green – Cardinal 345 kV

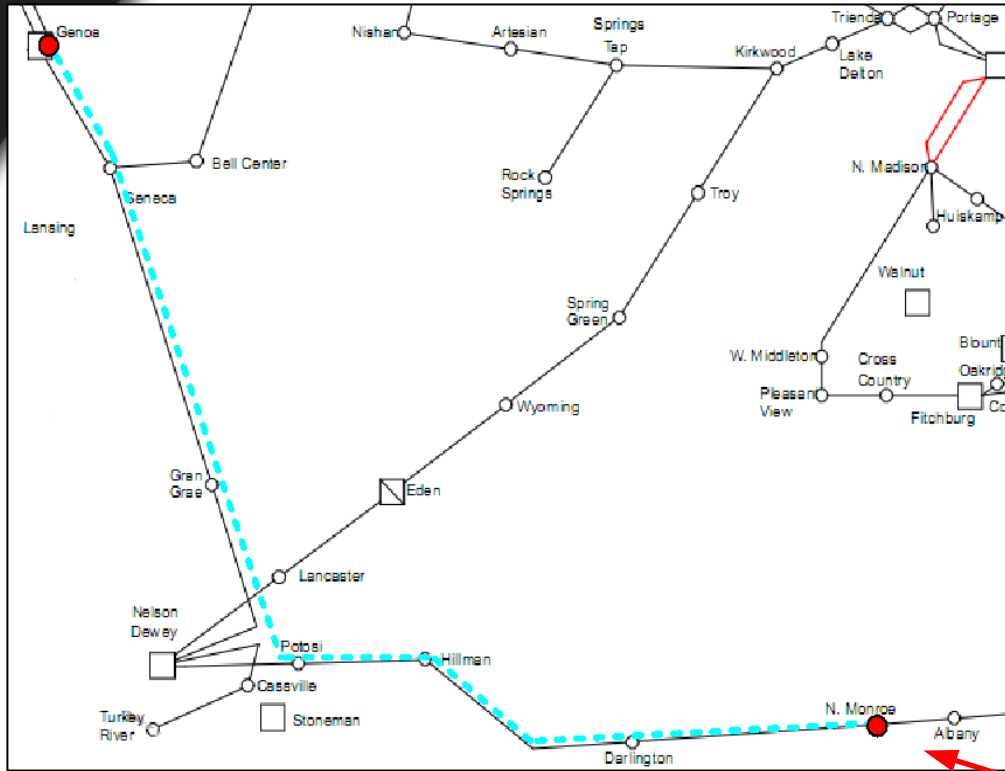


345 kV mileage estimate = 266 miles (from PSS/E idev)

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Genoa – North Monroe 765 kV



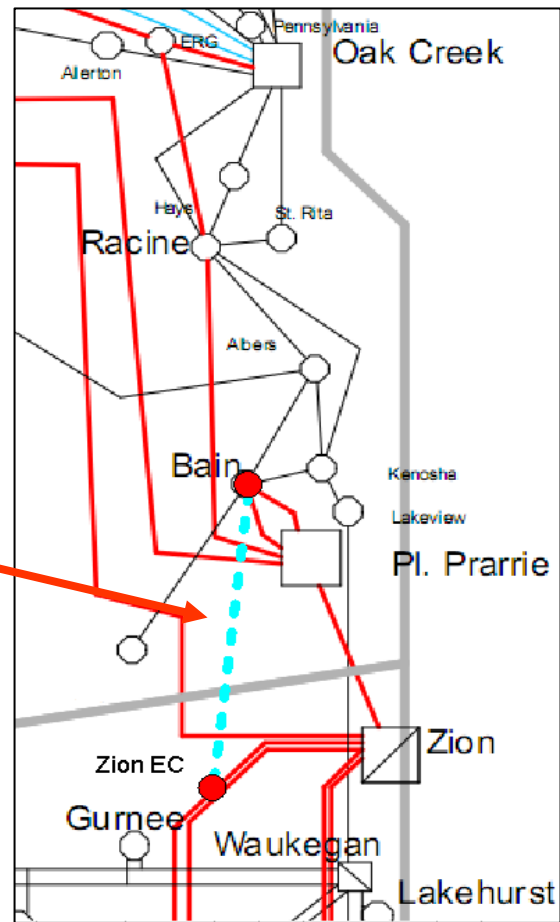
765 kV mileage estimate = 136 miles (from RGOS Indicative Assumption)



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Bain – Zion Energy Center 345 kV



345 kV mileage estimate = 6 miles (from PSS/E idev)

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Mileage and Cost Estimate

North La Crosse – Madison 345 kV Project	Mileage	Cost (\$2009)
North La Crosse – North Madison 345 kV	136	408 M
North Madison - Cardinal 345 kV	21	63 M
Total	157	471 M
Lore - Spring Green – Cardinal 345 kV Project	Mileage	Cost (\$2009)
Lore - Spring Green 345 kV	80	240 M
Spring Green - Cardinal kV	28	84 M
Total	108	324 M
Genoa - North Monroe 765 kV Project	Mileage	Cost (\$2009)
Genoa - North Monroe 765 kV	136	653 M
Total	136	653 M
Bain - Zion Energy Center 345 kV Project	Mileage	Cost (\$2009)
Bain – Zion Energy Center 345 kV	6	18 M
Total	6	18 M

MISO Assumption

Cost estimate = \$3M/mile for 345 kV Circuit

Cost estimate = \$4.8M/mile for 765 kV Circuit



Questions?

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