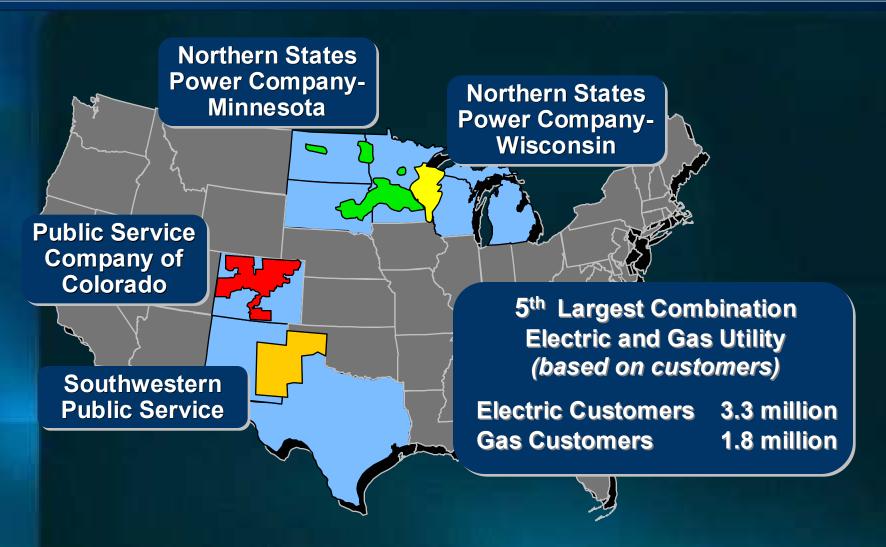


BENEFICIARIES OF TRANSMISSION EXPANSION

Who, Where, When and How Much?

Doug Jaeger
Vice President, Transmission
Xcel Energy





The New Transmission Directive

- Build it fast, cheap and out of my visual sight after having an exhaustive, transparent planning process...
- Make sure power is at my outlets 24x7 and of high-grade quality...
- Prevent every possible terrorist attack scenario and comply with the 1000+ requirements underlying the 83 mandatory reliability standards...

- Access those vast remote renewables, and while you're at it, use advanced technologies...
- Get a higher ROE with incentives, but don't disrupt the base rates...
- But more importantly, don't designate me as a beneficiary...

The New Transmission Directive

- Build it fast, cheap and Access those vast remote out of ny an extraustive, you're at it, use advanced transparent planning process...

 Access those vast remote you're at it, use advanced transparent planning process...
- Make sure power is at my outlet find each incentives, but do grade July each state of sales...
- Prevent every possible terrorist Wark le ar B E Tdo it des grazant a and comply with the B2

PLEASE READ THE FINE PRIN

But everyone's got to give to get

star year year.

Framing the Rubric...

Not since the 1970s, has the US collectively pursued an energy infrastructure build-out

The consequences:

- Expensive congestion
- Declining transmission capacity per MW-mile

Regional markets pool resources and economize expansion projects

The drivers:

- Reliability
- Economics
- Resource expansion (including renewables)
- Security

Investors and utilities want regulatory certainty expansion projects

The hurdles:

- Cost recovery
- Interstate siting
- Overbuilds for future load and supply growth

What Hurdles Have Been Cleared?

EPAct 2005

- National InterestElectricity Corridors
- Backstop siting authority
- Transmission incentives
- Mandatory reliability standards including cyber security

FERC

- EPAct Provisions
- Order 890 OATT reform
- Order 2003 & 2006
- CA ISO financing mechanism proposal
- Fuel neutral with a thumb on the scale for renewables

What Remains...

Cost recovery/ regional pricing State coordination on regional transmission siting

These are not insurmountable, but they are peppered with political and regulatory landmines

Cost Recovery/Regional Pricing

The Issues

Classification

Determining reliability, economic,

or generator outlet

Beneficiaries

Assessing expansion benefits to

retail versus wholesale and

subregion versus subregion

Payments

Divorcing investment from native

load repayment obligation

Cost Recovery -- Classification

Perception:
Each project is
EITHER
reliability,
economic
OR
generator
outlet

- Reality all projects cross lines into 2 or all 3 classifications
- Reality projects can be classified for one purpose locally, a different purpose subregionally, and yet another across the region
- Reality project can benefit a single entity or subregion while causing constraints two states away
- Reality classifications can change over time: "reliability today, economic tomorrow"

Cost Recovery -- Classifications

Pros / Benefits

- Models promote construction as entities race to build in order to spread their costs
- Transmission projects generally benefit a region or portions of a region

Cons / Challenges

- An entity with limited need for new transmission may pay more for others' projects
- Entities still subject to uncertainty in cost recovery
- "Beneficiaries" may dispute RTO determinations
- Benefits or beneficiaries change over time while classification is determined at a single point in time

Cost Recovery – Beneficiaries

Perception:

Models are scientific and impartial enough to appropriately allocate cost to beneficiaries

- Reality Some positive movement with beneficiary models
 - Have promoted transmission as costs are split with a portion spread with a postage-stamp rate
 - Have had both state and FERC regulatory participation which is leading towards the necessary regulatory certainty

Cost Recovery - Beneficiaries, cont.

Perception:

Models are scientific and impartial enough to appropriately allocate cost to beneficiaries

- Reality Some unintended consequences with spreading of costs
 - Entities that have aggressively constructed in years past will see more costs put to their customers
 - Entities with small transmission asset base and large load requirements will also see more costs put to their customers
 - If an entity is facing a major build-out, its native load will not have to bear the full burden

Cost Allocation Case Studies

Reliability projects	SPP	Midwest ISO
	33% postage stamp	20% postage stamp
	67% subregional allocation	80% subregional allocation
Economic projects	100% direct assigned	20% postage stamp
	Currently under study	80% subregional allocation
Generator	100% generator	50% generator*
Outlet	0% reliability spread	50% reliability spread
Model	Megawatt Mile	Line Outage Distribution Factor Studies (LODF)
Weaknesses	External SPP inputs	Use of Summer Peak
	■ Time horizon	■ Time horizon
	Projects fall into multiple buckets	Projects fall into multiple buckets
Current debate	Highway/byway	Continue License Plate
	Expand postage stamp	rates for existing facilities

Cost Allocation – Regional Pricing

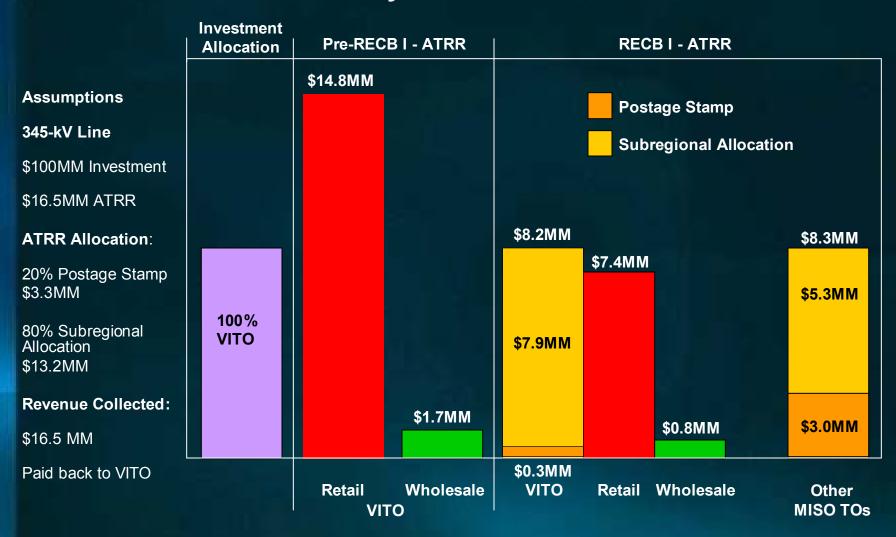
Perception:

of RTO
allocation
methods ends
the cost
allocation
debate

- Reality States may not allow retail ratepayers to pay for 3rd party upgrades through...
 - ...postage stamp rates including the non-generator funded allocation
 - ...subregional allocations including the non-generator funded allocation
- Reality Generators cannot afford the generator outlet proposal
- Reality States may not allow retail rate payers to pay for transmission that moves power from one state to another

Regional Pricing Illustration

Retail/Wholesale Recovery Illustration: Pre- & Post-RECB



How Do We Advance The Ball?

Resolve the cost-recovery debate

- Short-term:
 - Land on acceptable classification process – K.I.S.S.
 - Resolve the generatorfunding issue related to distributed, renewable resources – accept the inevitable over-build
 - Lean toward higher allocation to postage stamp, reduced allocation to beneficiary
 - Eliminate the seams
 between states and FERC

Long-term:

- State support for rolled in pricing w/ postage stamp approach for new regional, highvoltage investments
- Clear methodology
 on beneficiary
 allocation for local
 load-serving projects

