

INTRODUCTION TO PROJECT SCALE
Energy Gateway Separation and Design
 (Existing transmission paths) →



- Existing transmission paths in Wyoming are fully utilized
 Existing capabilities are small compared to Energy Gateway
1. Utah load approaches 8000MW
 2. Wyoming load approaches 1800MW, Gen 6000+
- Existing lines in WY provide little backup or redundancy for Energy Gateway segments in Wyoming
1. Wyoming Generation Center
 2. UT Load Center
 3. Desert SW Load Center and Reserve Pool
 4. NW Load Center and Reserve Pool

Reliability Triangle Energy Gateway Separation and Design (Normal Operation)



All Energy Gateway segments in service meet NERC TPL001 standards

1. Allows approximately 6000MW of resources exiting Wyoming
2. Provides 3000MW of long-term transmission service to PAC
Provides 3000MW of capacity for third party use
3. Provides 1500MW of capacity to DSW
4. Provides 1500MW of capacity to NW; ties PACE and PACW
Provides 1500MW of capacity for third party use

Reliability Triangle Energy Gateway Separation and Design (Scenario I)



Segment of Gateway West out of service (-----)

Meets NERC TPL 001, 002 standards

1. Interrupt 1100MW of Wyoming Generation Center
 2. Load in UT served adequately
 3. Import to UT from DSW as necessary
 4. Call on 1100MW of reserves from NW pool
- Areas 3 and 4 are Resource Deficit 1500MW

Reliability Triangle Energy Gateway Separation and Design (Scenario 2)



Segment of Gateway South out of service (-----)

Meets NERC TPL 002,003 standards

1. Interrupt 1700MW of Wyoming Generation Center
 2. Load in UT served adequately
 3. Import to UT from DSW as required
 4. Call on 1500MW of reserves from NW Pool
- Areas 3 and 4 are Resource Deficit 1500MW

Reliability Triangle Energy Gateway Separation and Design (Scenario 3)



Segments of Both Gateway West and South out of service
Does not meet TPL 002, 003 standards; is extreme event TPL 004

1. Interrupt 6000MW of Wyoming Generation Center
2. Load in UT not served, load shedding 2000MW or more
3. Import to UT from DSW maximum
4. Call on 1500MW of reserves from NW

Areas 3 and 4 are Resource Deficit 1500MW

Potential for large scale disruption of interconnected system