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The Duke Energy Luna Energy Facility

• Disclaimer: Personal Views Only
• 570 MW Gas-Fired Electric Energy Plant
• Location Criteria:
  – Proximity to Interstate Grid
  – Proximity to Natural Gas Pipelines
  – Proximity to Water
  – Proximity to Population Centers
  – Local Incentives
Water Requirements

• 2500-3000 acre feet per annum
• 4000 afy to handle summer and winter peaks
• redundancy – multiple wells, effluent
Regulatory and Hydrologic Environment

- Mimbres Basin – a Closed Basin
- 9 Section Block System limits transfers
- Critical Blocks limit drawdowns
- Lack of Sufficient Effluent (Quantity and Quality)
- Avoidance of Public Lands (NEPA)
Permitting Options

• Work within constraints of established regime
• Challenge regulatory assumptions of block system
• Inter-basin transfers
Approach Selected: Work Within the System

- Modeling Effort to Assure Long Term Supply
- Address Public Concerns
- Obtain Necessary Permits
- Extensive well field + 10 mile pipeline
- Result: $ucce$$