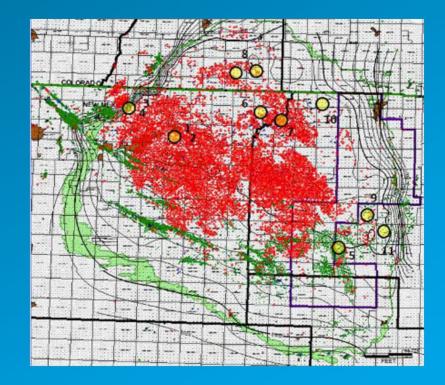


The Outlook for Hydrogen in San Juan County

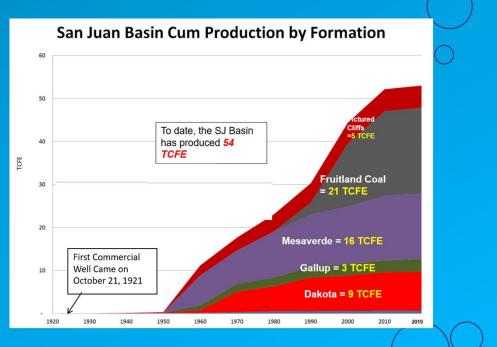
John Byrom Process Equipment and Service Company, Inc. April 6th, 2023 San Juan College School of Energy



Geology – Hydrocarbon Rich



- Mancos Play has just begun
 - Wells are world class



Source: 4Cornered.com Merrion Oil and Gas

Electrical Generation

Electrical transmission grid

- 500 MW of transmission capacity Gas turbine
- **Coal Fired**
 - Four Corners Power Plant (APS)
- Solar Power
 Major solar projects planned
 - ~100's of megawatts

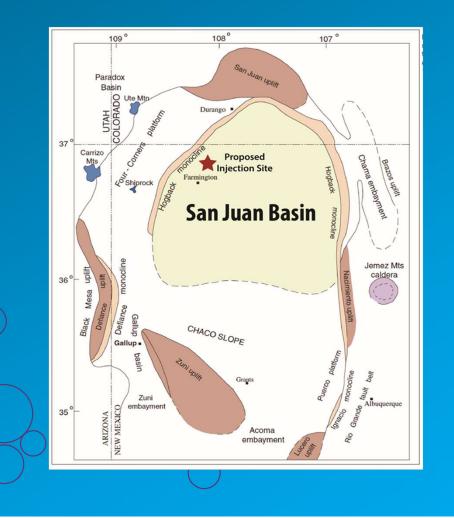


PNM

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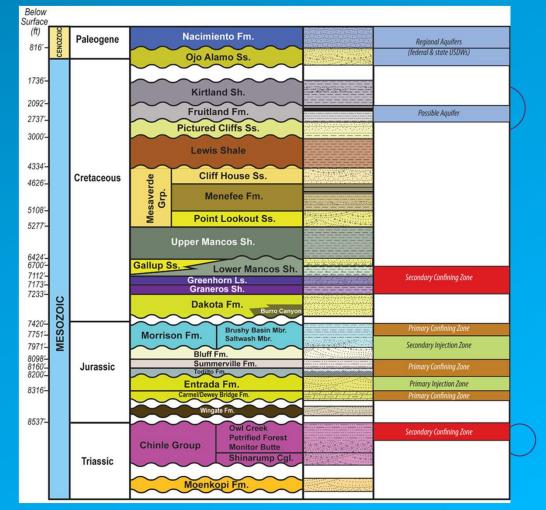
Storage Complex @ SJ Basin



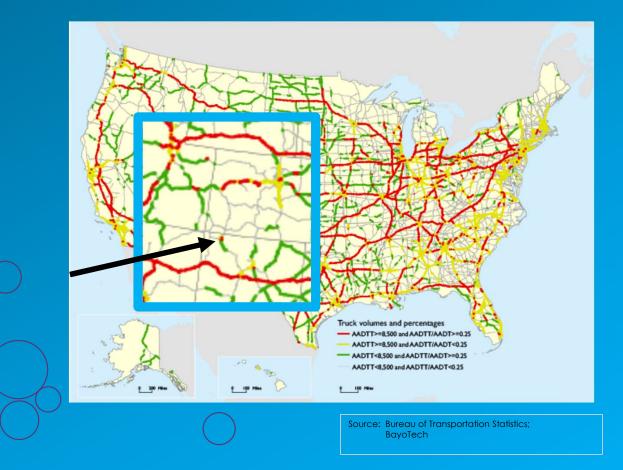


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SAFE



Hydrogen Fuel for Transportation





Hydrogen Fueling Station Concept

Major Highway Corridor

- Salt Lake to Albuquerque
- Phoenix to Denver
- Industrial Farming
- o Rail
 - o Hydrogen powered??
- Pipelines existing Nat Gas
 - Hydrogen blending

Equipment Manufacturing



• PESCO

- Process Equipment
- 480 employees, 70% Native American



Hydrogen Production Unit

- Modular Steam Methane Reformer
- 20 New Jobs, more to come...



NW New Mexico has a Strong Base of Industrial Fabrication and Machine Shops

NW NM Hydrogen Hub Projects



• NAPI Project

Large Farm Hydrogen Generation and Use demonstration project

• Avangrid

- Green hydrogen/ammonia plant to service regional needs for
 - o fertilizer, power and other industrial needs



Libertad

• Electrolysis H2 Generation w offtake for heavy haul and power gen

Libertad Power



Challenges

- Permitting: Majority Federal Lands in Northwest New Mexico
 - Oil and Gas Wells, Solar Fields, CO2 Sequestration, New Hydrogen Facilities; Pilot Projects
- Generating Public Support: Loss of San Juan Generating Station was missed opportunity. Probably Two Thousand jobs; \$Millions
- Transportation: Rail
- Funding help for scaling up production to commercialize technologies that lead to new products for local use and for local manufacturing
- Education and Training: San Juan College; High Schools; Job Training at businesses
- Funds to help bolster 4 Corners Economic Development
 - Grant writing help



Invitation to Visit PESCO

Morning tour – please see me if you are interested

