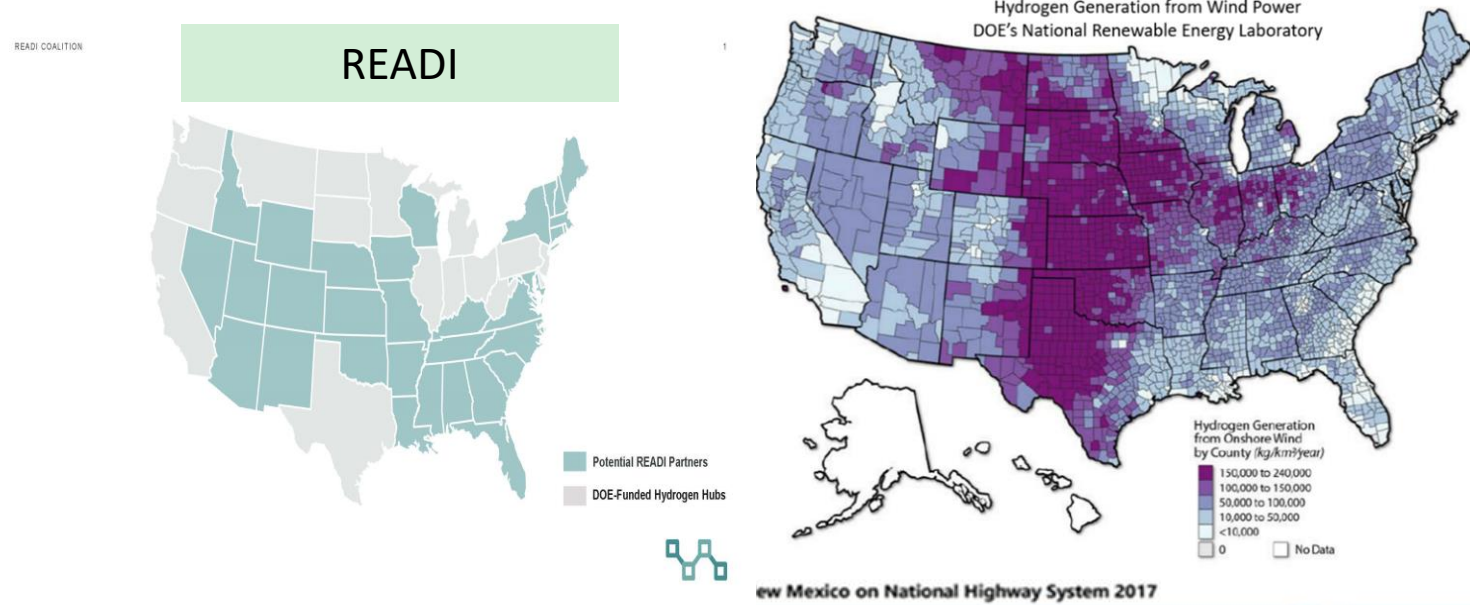


Matt Newman  
 New Era Advisors LLC  
 MattBNewman@NewEraAdvisors.org

- Who are you?
  - Sr Advisor to OK Sec of Energy & Environ
  - READI / HALO Coordinator
  - Advisor to VC firms and deal partner
- What are you working on?
  - READI, I-40 Clean Transport Corridor, CPRG
  - Innovative Energy Tech
- Who are you collaborating with?
  - Multiple States, energy entities
  - DOE, EPA, DOT, Universities
  - Renewables and Logistics Fleet Operators
- What do you need for your company or project to be successful?
  - Continued forward momentum in more of everything energy

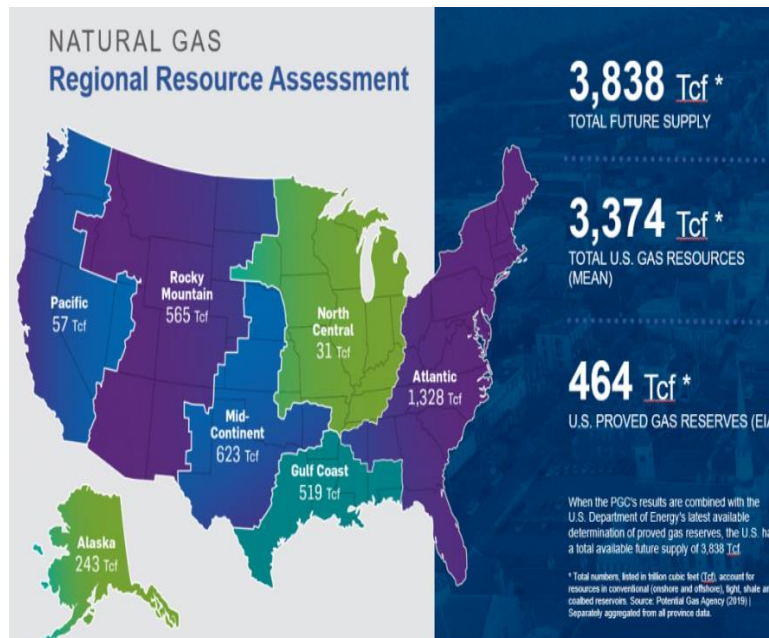
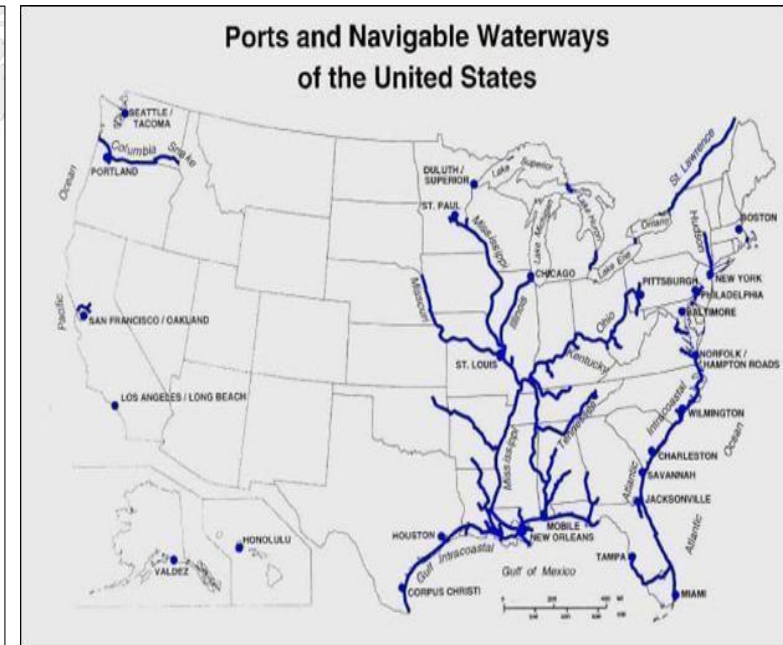
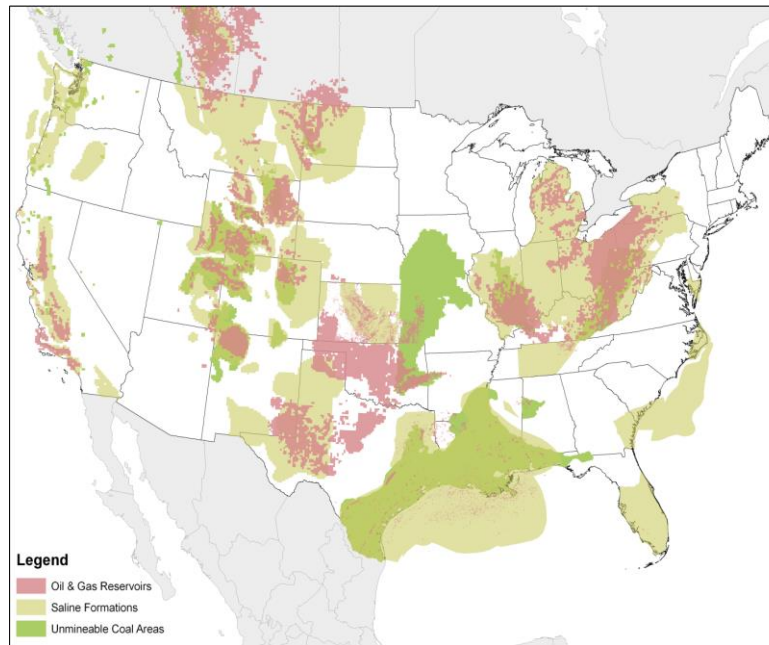


# Buford Boyd Pollett, J.D.

## University of Tulsa

buford-pollett@utulsa.edu

- Who are you?
  - Genave King Rogers, Assistant Professor of Energy Law and Commerce at TU
  - AIEN & AAPL Director of Energy Management/Master of Energy Business Programs
- What are you working on?
  - Chevron Funded Carbon Management/LNG/Hydrogen Project
  - Southern University/LA DNR - Carbon Management/LNG proposal
  - OU-TU Geothermal Energy Project
- Who are you collaborating with?
  - Chevron, ONEOK, Williams, TC Energy, OSU, OU, TX A&M, Tribal Energy Consortium, NAESB, AIEN, AAPL, OGEL
  - Funding - Chevron, Southern University – LA DNR/OK DEQ/OMNGC proposal stage
  - End users – Tribes, Resource owners, Landowners, Developers, Municipalities, Local Communities
- What do you need for your company or project to be successful?
  - Research Projects & Cost Sharing
  - Authors & Co-authors for papers and research proposals, see <https://www.ogel.org/news.asp?key=781>



**OGEL Energy Law Journal Call for Papers Special Issue**

**Prof. Buford Boyd Pollett**  
Collins College of Business  
The University of Tulsa

**Dr. Penelope Crossley**  
Sydney Law School  
University of Sydney

**Prof. Kim Talus**  
CCEEL, UEF Law School  
University of Eastern Finland

**Contractual, Legal, and, Regulatory Dynamics for Hydrogen Projects and Markets**

**Call for papers: OGEL special issue on the “Contractual, Legal, and, Regulatory Dynamics for Hydrogen Projects and Markets”**

This call for papers can also be found on the OGEL website here:  
<https://www.ogel.org/news.asp?key=781>



# Rose Rock Energy Workshop at TU - Focus on Digital Transformation and the Energy Addition

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**Date:** April 10, 2024



## **Agenda:**

- 8:00 – 8 :45 AM Registration
- 8:45 - Welcome
- 9:00 AM Session 1 - **Digital Economic Zones: A Program for Comprehensive Tribal Economic Sovereignty** - [Tribal Energy Consortium](#)
- 9: 45 AM Break
- 10:00 AM Session 2 - **Blockchain for Energy and NAESB Panel** - [Blockchain for Energy and NAESB](#)
- 11: 30 AM Break
- 11: 45 AM Session 3 - **Exploring DLT's (Distributed Ledger Technology) Potential for Real-World Asset Tokenization** - [Bank of Oklahoma](#)
- 12:30 PM Lunch & Ice Cream Social

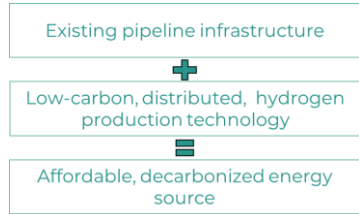
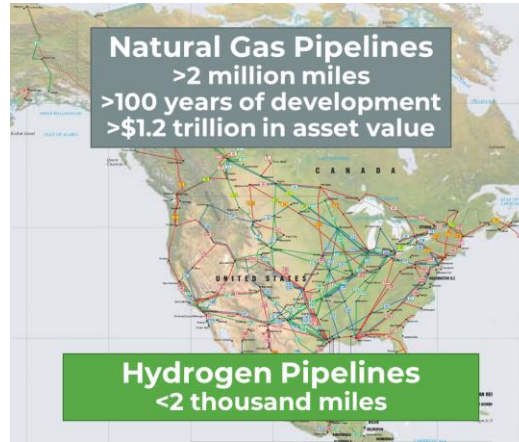
**Location:** University of Tulsa, Tyrell Hall Auditorium

# Arturo Puigbo, MSc

[Arturo.Puigbo@nuionic.com](mailto:Arturo.Puigbo@nuionic.com)



- Who are you?
  - Chief Commercial Officer at Nu:ionic
  - VP GPA Midstream Association – Midcontinent Chapter
- What are you working on?
  - Commercialization of Microwave Catalytic Reforming™
  - Deployment of demonstration units in Canada and USA
- Who are you collaborating with?
  - Grants from NBIF, NGIF, etc.
  - First public adopter: Libe 2.4 T/D Unit (H<sub>2</sub> blending)
  - Others (non-public): 5 T/D blending, refueling, feedstock, biogas applic.
- What do you need for your to be successful?
  - More “pragmatic” early adopters
  - Legislation: clear rules
  - Strategic partners/investors



**CHAD BRACHER**  
 Williams  
 chad.bracher@williams.com

**ARCH**  
 Appalachian Regional Clean Hydrogen Hub

**Pacific Northwest Hydrogen Hub**

**Way of Williams' Assets in Haysville**

**Map of Williams' Assets in Haysville**

- Williams named as a sub-recipient of DOE funding
- Williams to leverage existing footprint and build new pipelines to safely and reliably transport hydrogen
- Hydrogen to serve intercity transportation, port operations, power generation, agriculture and industrial operations
- HUB strategically located near major demand centers and the largest natural gas transmission in the U.S.
- HUB to include development of hydrogen pipelines, hydrogen fueling stations, and permanent CO<sub>2</sub> storage
- Williams plans to leverage its impressive footprint and partnerships within the region to support the hub

**Hydrogen production & transportation**

**Hydrogen production**

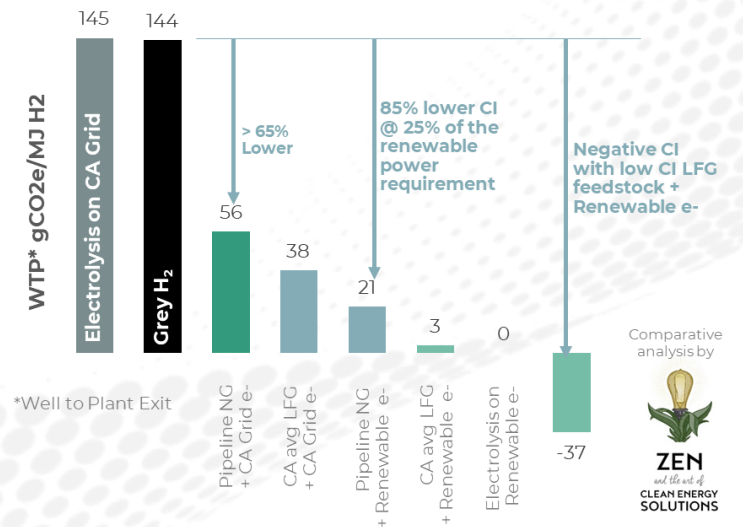
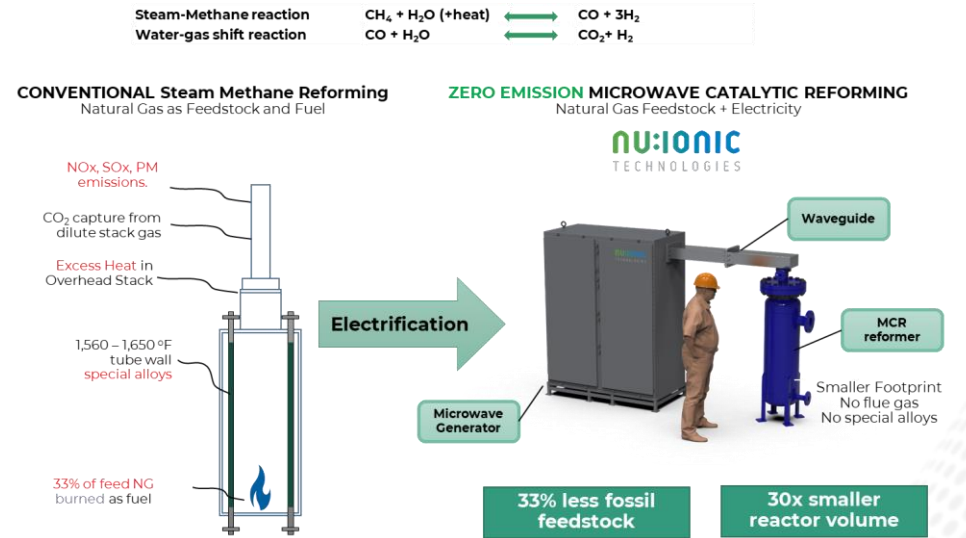
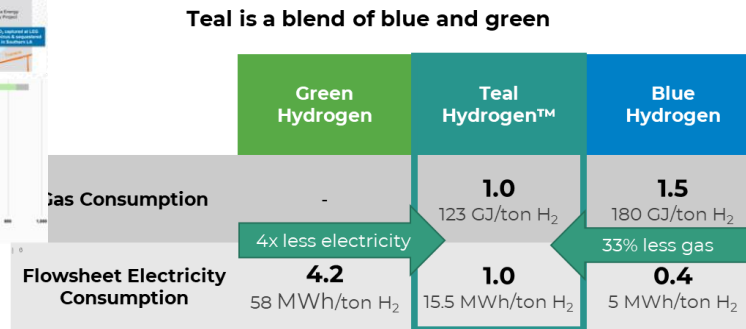
**Hydrogen transportation**

**Hydrogen distribution**

**Hydrogen utilization**

**What do you need to be successful?**

- Demand-side management



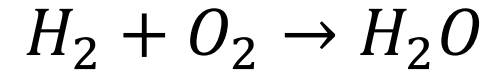
Colby F. DeWeese  
Hydrogen Technologies, LLC  
918-633-4888

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- Who am I?
  - Hydrogen Engineer & Jiu Jitsu Enthusiast
- What are you working on?
  - Creating zero-emission steam
- Who are you collaborating with?
  - Universities
  - National Labs
  - Customers
- What do you need for your company or project to be successful?
  - Hydrogen is an ecosystem—much like apple products. By itself it certainly has benefits, but to realize its full potential it needs to be thoughtfully integrated into a renewable energy system.

## Oxy-Fired Hydrogen Boilers

### 1. Zero emissions:



### 2. Instead of a smokestack, it produces steam, which can be fully condensed, so no waste heat goes to the atmosphere (closed system to atmosphere)

### 3. Creates lifesaving heat and steam with no effects—except where desired

#### 1. Seems trivial, but think about cars, they use atmospheric oxygen to fuel combustion and then dump only pollution to the atmosphere!

# CHAD BRACHER WILLIAMS



WE MAKE CLEAN ENERGY HAPPEN®

chad.bracher@williams.com

## Business development for our New Energy Ventures

- Hydrogen production & transportation
- CCUS
- Solar
- NextGen Gas & carbon markets

## Decarbonizing our own assets and assisting our customers to decarbonize


- Pac NW H2 Hub & ARCH2 Hub
- Louisiana Energy Gateway
- Operating the Ins & Outs

## Integration of Williams services and assets

- Transco & Northwest Pipeline
- Upstream natural gas ownership
- Sequent marketing service


## What do you need to be successful?

- Demand-side commitment
- Clarity of the rules
- Project execution



### Pacific Northwest Hydrogen Hub

- Williams named as a sub-recipient of DOE funding
- Williams to leverage existing footprint and build new pipelines to safely and reliably transport hydrogen
- Hydrogen to serve heavy-duty transportation, port operations, power generation, agriculture and industrial operations



### Appalachian Regional Clean Hydrogen Hub

- Hub strategically located near major demand centers and the largest natural gas formation in the U.S.
- Hub to include development of hydrogen pipelines, hydrogen fueling stations, and permanent CO<sub>2</sub> storage
- Williams plans to leverage its irreplaceable footprint and partnerships within the region to support the hub

