



# The Truth About Water and Energy

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# God Bless America

Texas

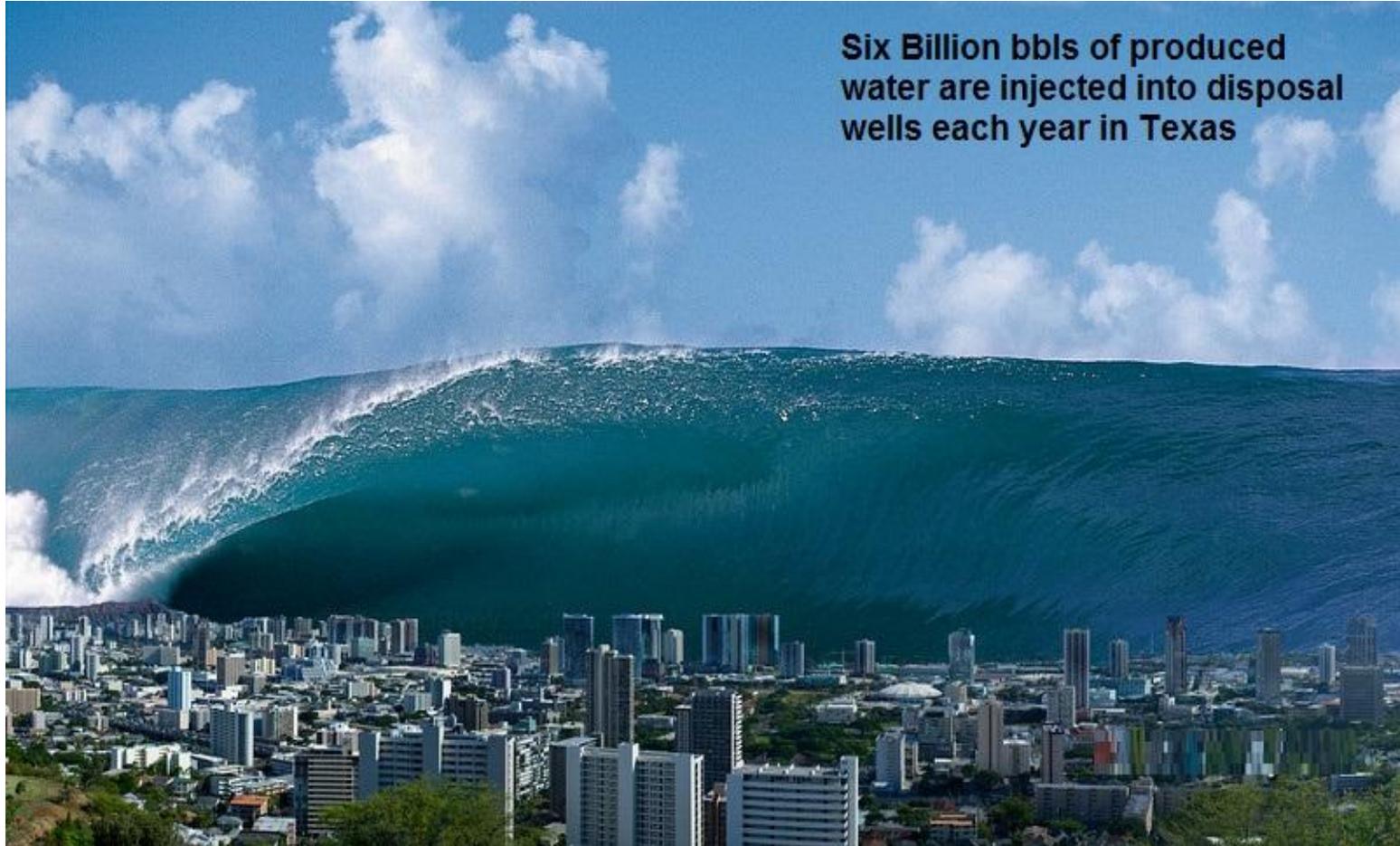


# The Truth about Water



1. Water is where you find it, Not where you need it!
2. To use it you must either transport or treat it

# The Perception About Water & Energy



**Six Billion bbls of produced water are injected into disposal wells each year in Texas**

**What is the public perception of the O&G Industry?**



**How does industry  
view regulators?**



# How Does the Public View Regulators?

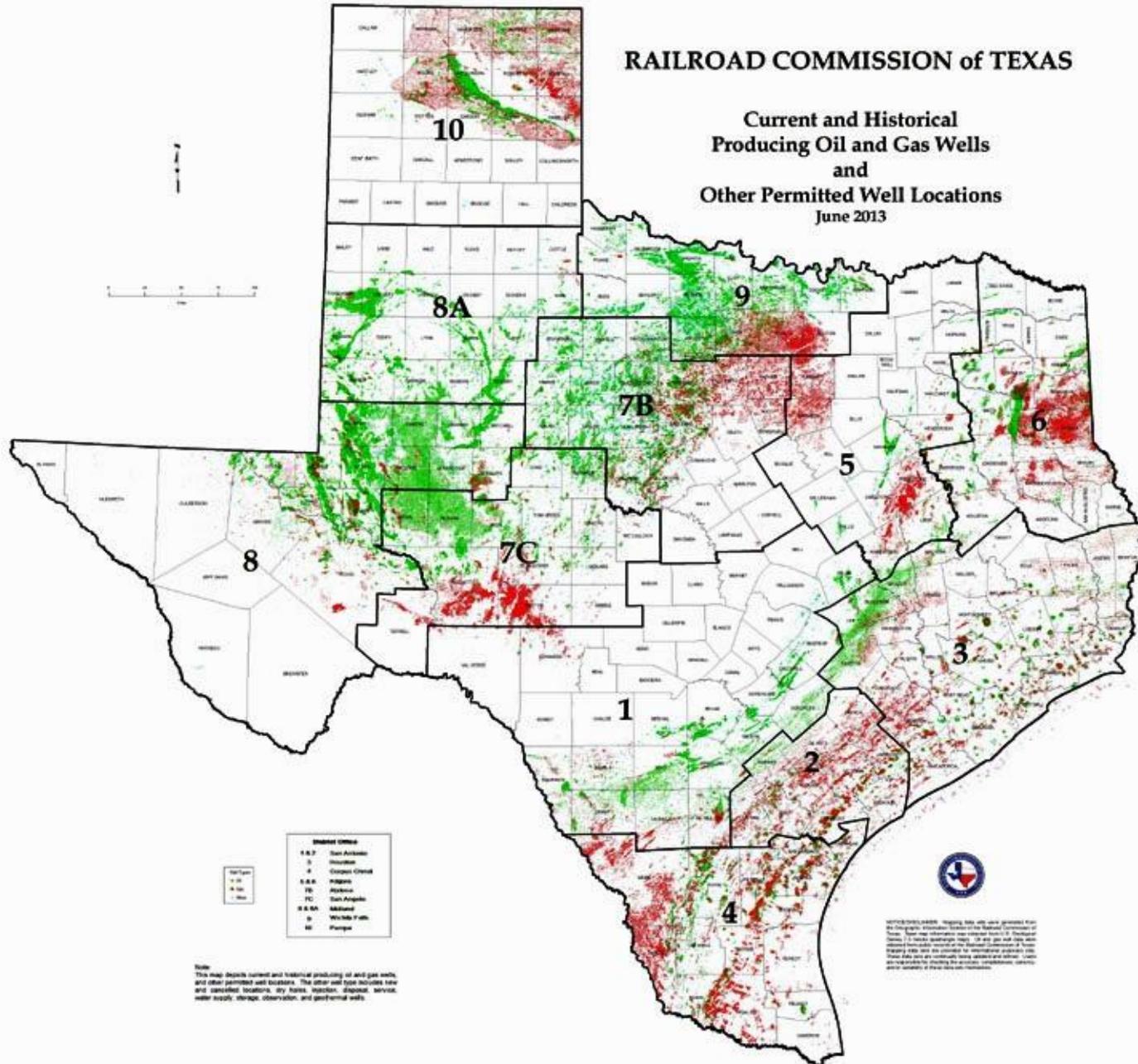




**How do regulators  
view regulators?**

# RAILROAD COMMISSION of TEXAS

Current and Historical  
Producing Oil and Gas Wells  
and  
Other Permitted Well Locations  
June 2013



# Texas Production

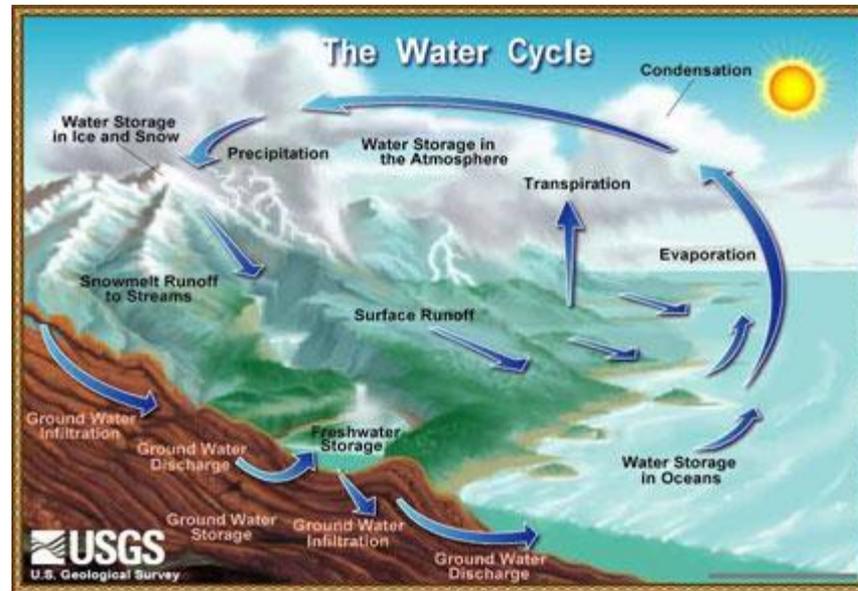
- 400,000,000 BO per year
- 8 TCF Gas per year
- 450,000 existing wellbores
- Over 1,000,000 wells drilled since early 1900's.
- 20,000 directional wells hydrofractured
- No “proven” groundwater contamination from hydrofracturing

# Water & energy: The Issues & Arguments

- ❑ **Hydrologic Cycle**
- ❑ **Climate Change**
- ❑ **Infrastructure**
- ❑ **Seismic Risk**
- ❑ **Sinkholes and subsidence**
- ❑ **Cleanup/Toxicity**
- ❑ **Eminent Domain**
- ❑ **State vs. Federal vs. Local Authority**
- ❑ **RCRA and the Regulatory Framework**
- ❑ **Surface Estate vs. Mineral Ownership**
- ❑ **Over -regulation vs. Under- regulation**
- ❑ **Politics**

# Hydrologic Cycle

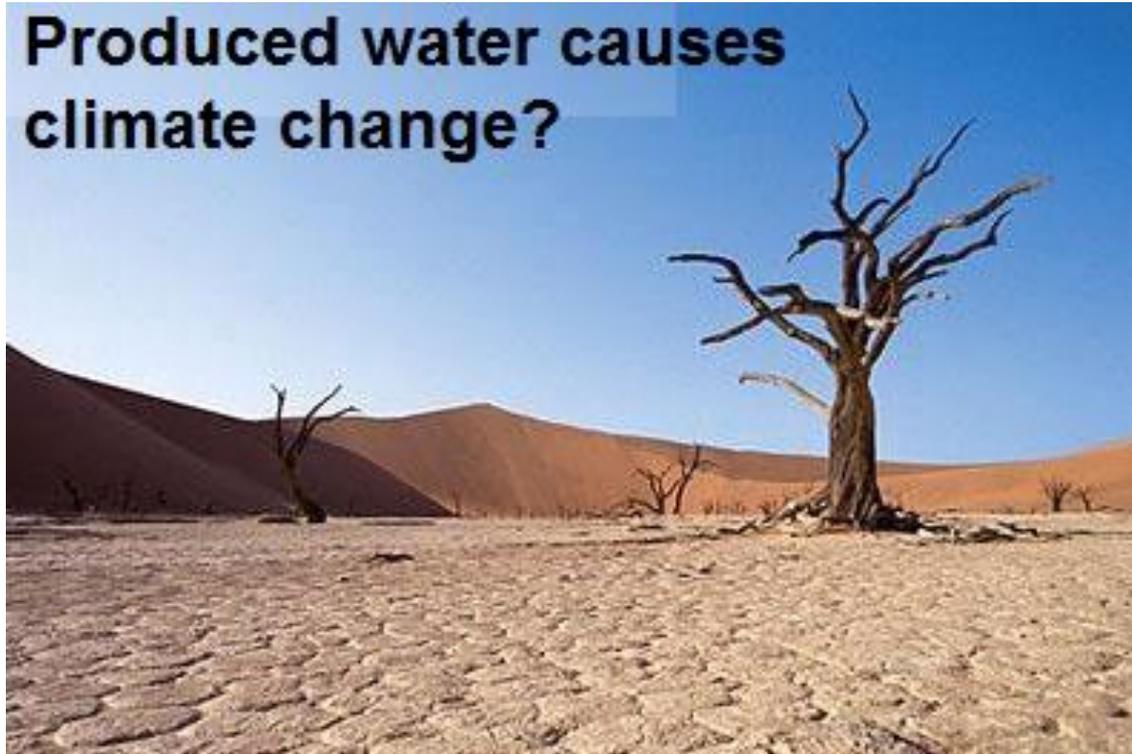
Perception: once fresh water is converted to frac fluid, flowed back as produced water, and disposed of, it is gone forever.



# Climate Change

perception : energy created using water is dirty energy

**Produced water causes  
climate change?**



# Infrastructure; Roads & Haulers

perception: Energy and water is poorly managed

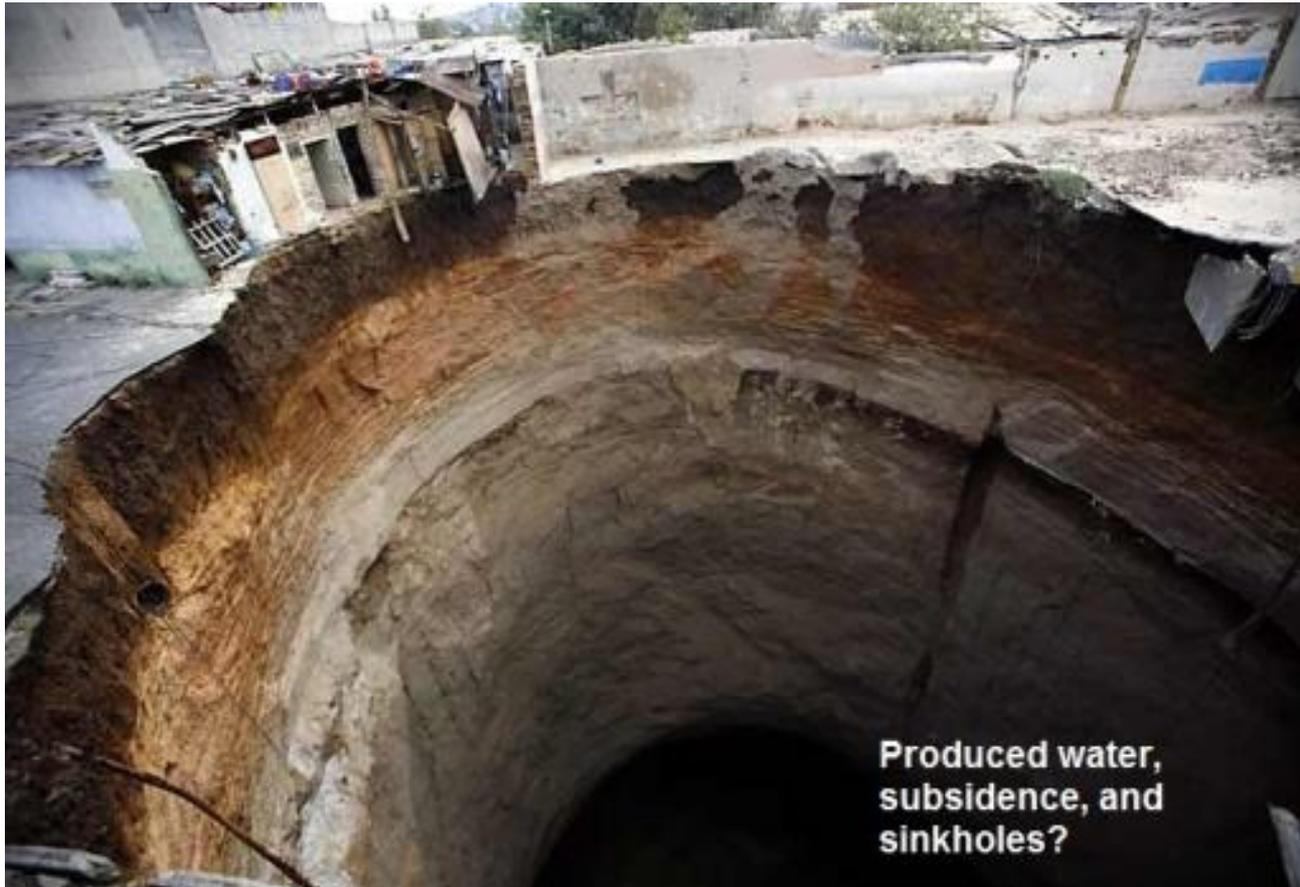


# Seismic



# Sinkholes and Subsidence

perception: removing fluids like produced water from under the ground causes subsidence, pumping fluids back underground causes sinkholes



# Cleanup: How toxic is energy and water nexus & who pays?

**What price should we pay for clean, cheap and abundant energy?**

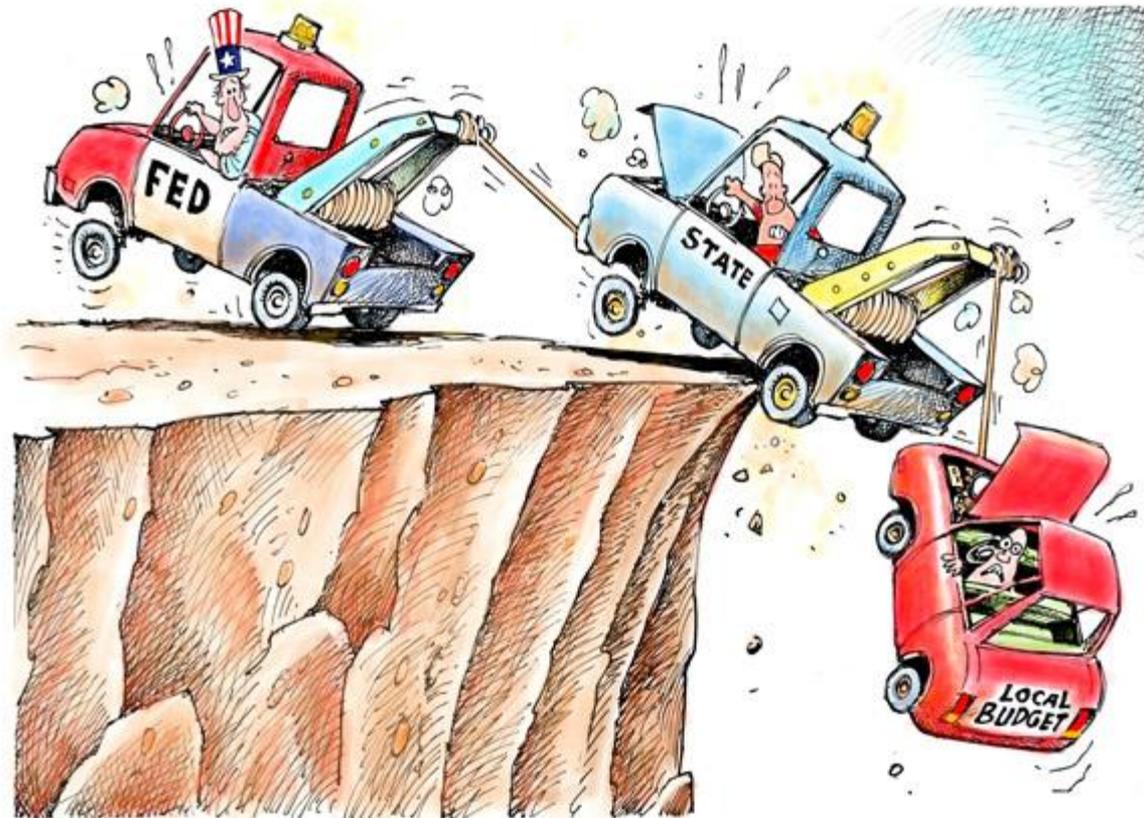


# Eminent Domain:

politicians and regulators can't ignore this...



# Federal vs State vs Local Control



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# RCRA & and the Regulatory Framework

## **The Holy Grail**



# Surface Estate vs. Mineral Ownership

, serious disconnect between groups. This is a global concern.



# Over -regulation vs. Under- regulation:

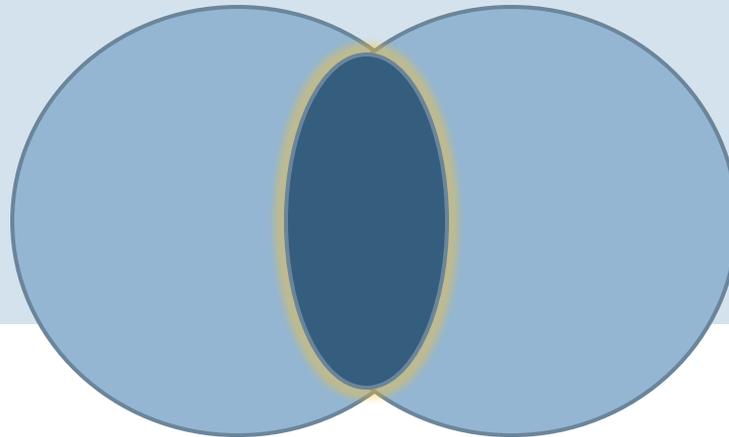
“to be or not to be, that is the question”





# Water + Energy = The World

- **Energy Needs Water** (hydrofracture technology)
- **Water Needs Energy** (water is where you find it, not where you need it)
- **The World Needs Both**





- **Political** problems require a political solution
- **Scientific** problems require a scientific solution
- **Fact** problems require due process
- **Economic & Energy** policy debates deserve

**“REGULATORY DÉTENTE”**

# A Call for “Regulatory Détente”

## détente

*noun* \dā-'tänt\ : “ is the easing of strained relations, especially in a political situation”

# M. A. D.

□ Mutually

□ Assured

□ Destruction

# Mouthing Ethereal Platitudes?

Quit eating **lotus blossoms** and give me some examples? How do we get there from here? What are some **Common Denominators**?

1. **Regulations - Permit By Rule:** business needs a stable regulatory landscape, RRC Recycle Rule
2. **\$\$\$ - Access to funding:** TX SB1624 (Water Bank)
3. **A Voice - TWRA:** We all have a need to be heard

# The Truth About Water and Energy



*A call for*

**“REGULATORY DÉTENTE”**

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Questions?

