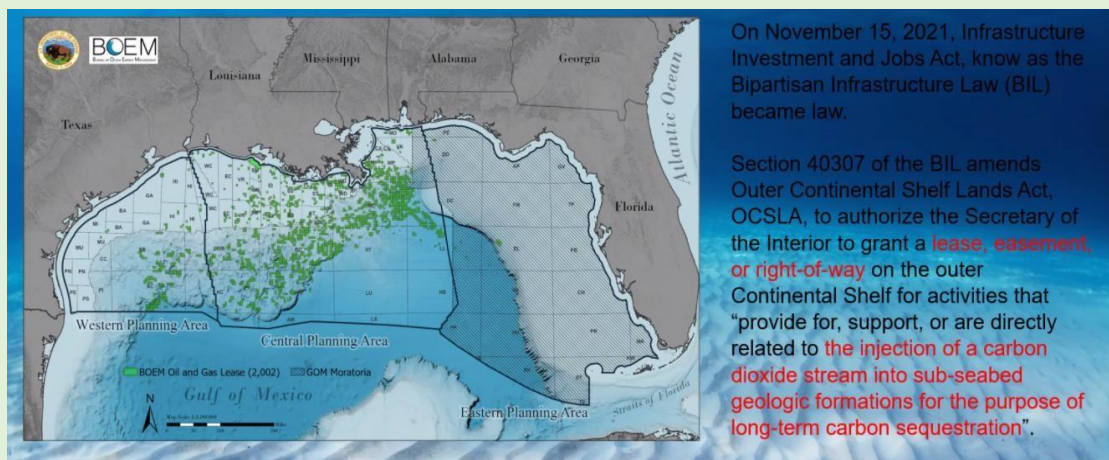


# The Gulf of Mexico

## Hydrogen, Carbon Capture and Storage

	Depleted Reservoirs	Saline Aquifers
Advantages	<ul style="list-style-type: none"> <li>- Potential for greater available pressure margins</li> <li>- Abundant geologic, geophysical, engineering and production data</li> <li>- Proven trap and seal</li> </ul>	<ul style="list-style-type: none"> <li>- <b>LARGE potential storage capacity</b></li> <li>- Fewer legacy wells</li> <li>- Abundant geologic, geophysical, engineering and production data</li> <li>- Multiple Stacked Reservoirs</li> </ul>
Risks and Considerations	<ul style="list-style-type: none"> <li>- Numerous legacy wells</li> <li>- Smaller storage capacity</li> <li>- Depleted reservoirs require an understanding of current reservoir temperatures and pressures</li> </ul>	<ul style="list-style-type: none"> <li>- Unknown Seal integrity</li> <li>- Smaller available pressure margin</li> <li>- Monitoring challenges /economics</li> </ul>

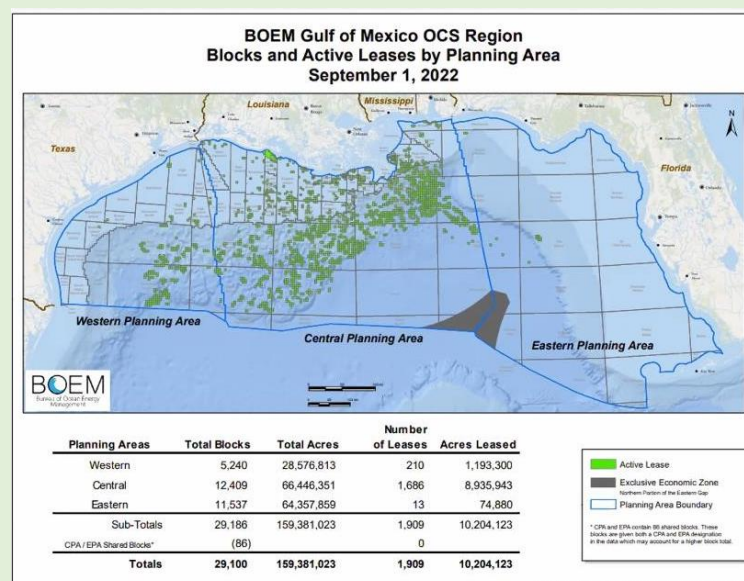


Four years ago, an article of mine caused something of a furore regarding offshore wind and the potential for hydrogen in the Gulf of Mexico.

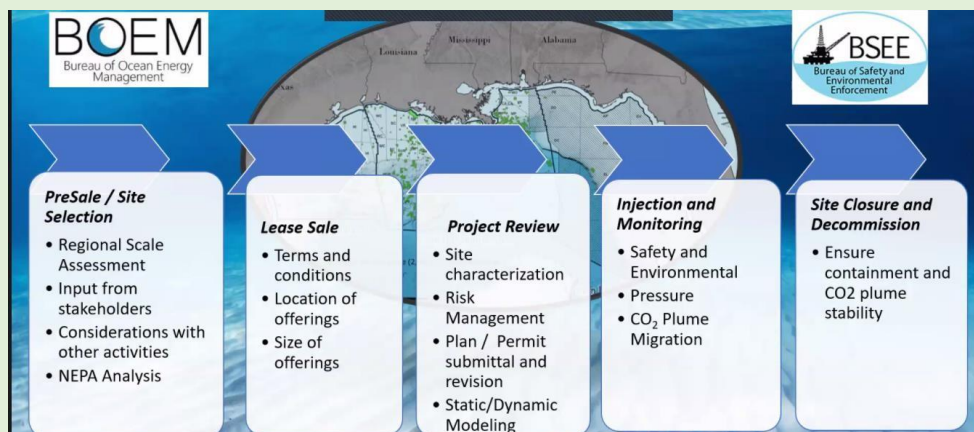
It's not CCS versus Hydrogen or even Blue versus Green as the energy Transition gathers pace. This week there has been enthusiastic applause for those opposed to any transition in Texas but more widely there is a realisation that it will happen its perhaps the pace and form which are harder to determine.

One unintended consequence of my piece - still out there; <https://energycentral.com/c/cp/gulf-mexico-leasing-round-offshore-wind-and-hydrogen> was a stateside realisation in some quarters of my being ahead of the pack.

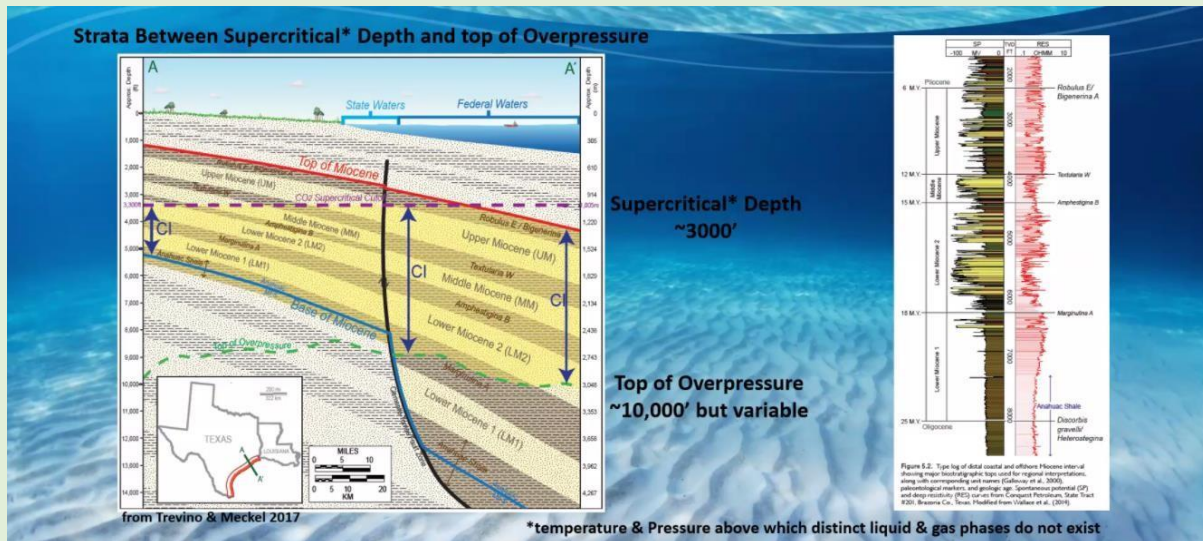
Since then, numerous invitations from Texas and US stakeholders to help to drive things forward. Here's a BOEM update for example on the Gulf of Mexico CCS & Hydrogen activities.



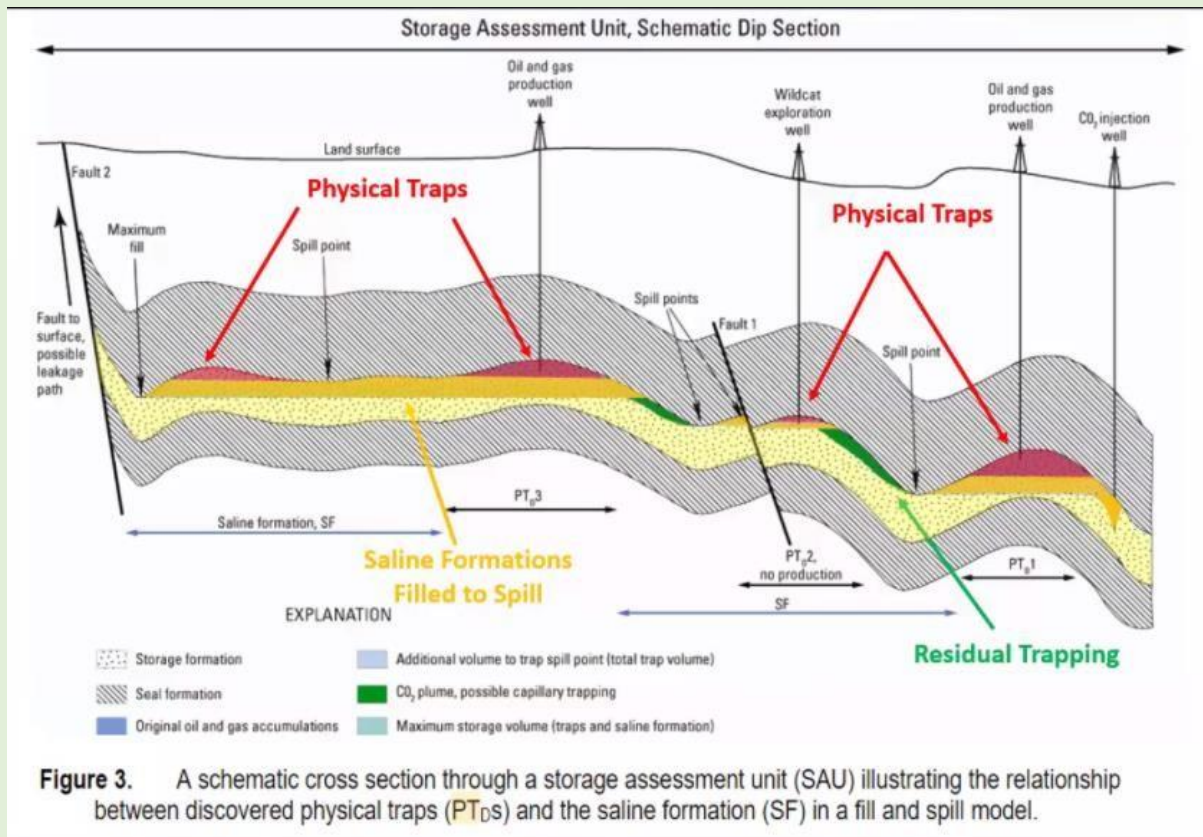
As with project ACORN in Scotland, efforts are in train to repurpose expended oil and gas reservoirs and see who gets what around the associated - but not the same - requirements of the nascent Carbon Capture and Storage and Hydrogen Storage sectors.



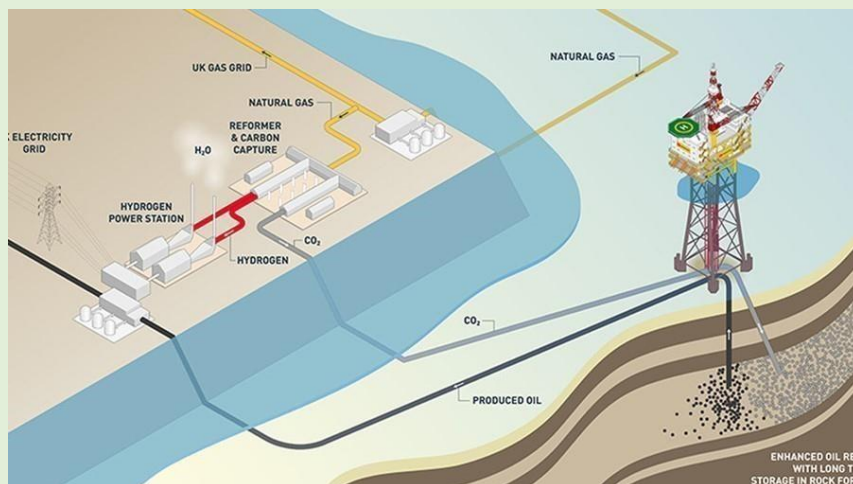




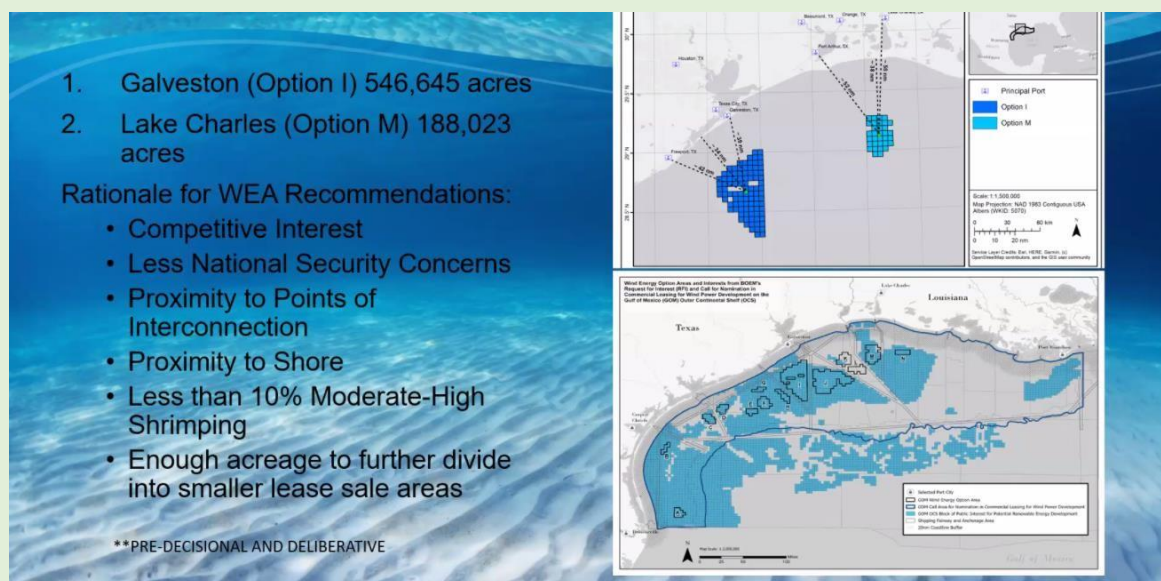
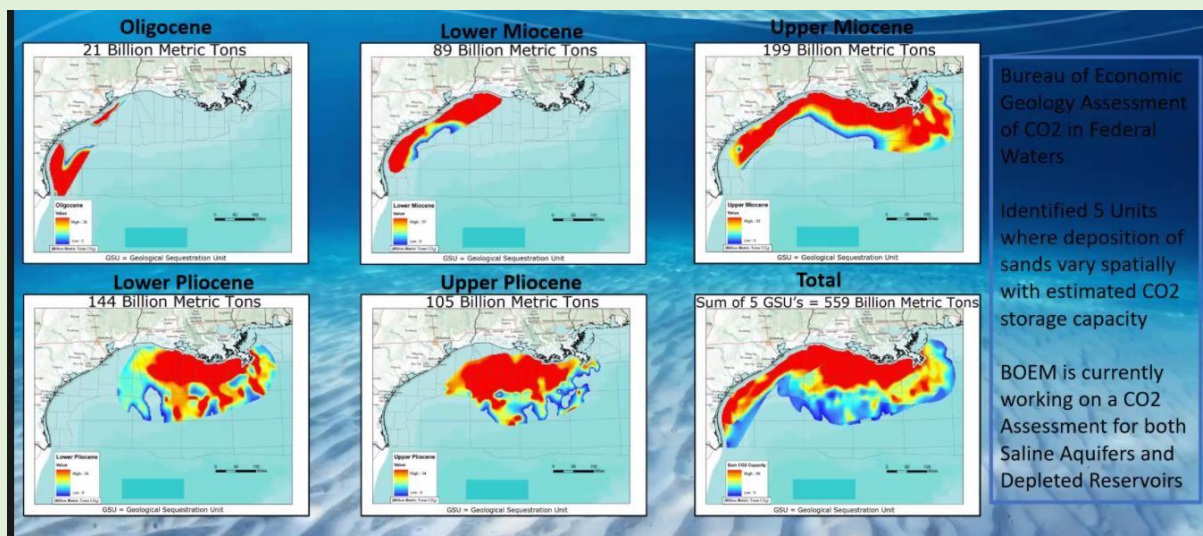
	Depleted Reservoirs	Saline Aquifers
Advantages	<ul style="list-style-type: none"> <li>- Potential for greater available pressure margins</li> <li>- Abundant geologic, geophysical, engineering and production data</li> <li>- Proven trap and seal</li> </ul>	<ul style="list-style-type: none"> <li>- <b>LARGE potential storage capacity</b></li> <li>- Fewer legacy wells</li> <li>- Abundant geologic, geophysical, engineering and production data</li> <li>- Multiple Stacked Reservoirs</li> </ul>
Risks and Considerations	<ul style="list-style-type: none"> <li>- Numerous legacy wells</li> <li>- Smaller storage capacity</li> <li>- Depleted reservoirs require an understanding of current reservoir temperatures and pressures</li> </ul>	<ul style="list-style-type: none"> <li>- Unknown Seal integrity</li> <li>- Smaller available pressure margin</li> <li>- Monitoring challenges /economics</li> </ul>



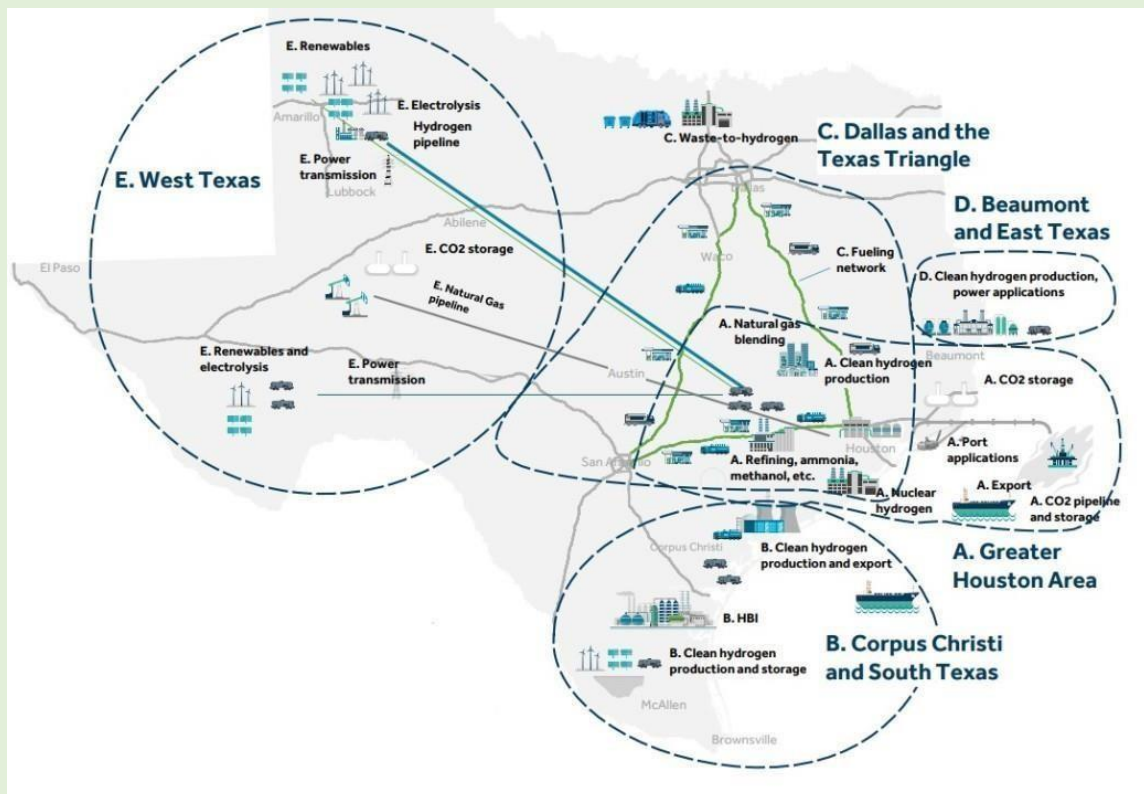
Acorn has itself endured a something of a chequered couple of years although similar synergies are also being explored in the [Northern-light](#) schemes off the coast of Norway.







## SELECTED REGIONAL CLEAN HYDROGEN HUBS



Houston and Texas are identified as home to five potential hydrogen hubs in the State and will stimulate further debate in a city which aspires to global leadership.

## **Houston** as the epicenter of a **global clean hydrogen hub**



We will see whether the adage of 'everything is bigger in Texas' comes to pass.



Stay informed with the moderated focus groups;

<https://bit.ly/2ZXK6f8>

[Hydrogen America](#)

and

[CCS and Hydrogen](#)

<https://bit.ly/35BkerE>

Charley Rattan Associates actively supports companies develop their hydrogen portfolios. We offer training, advisory and facilitation services and have already helped US companies illustrated in the supply chain book a call [schedule/3f0f8203/appointment](https://bit.ly/3f0f8203/appointment)

We can help your organisation.

