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AMERICA'S NEXT ENERGY BOOM



NORTH AMERICAN ROADSHOW AUGUST 2025
AHEAD OF A SPONSORED ADR LISTING ON OTCQX

TOP END
—ENERGY—
THE ENERGY OF TOMORROW

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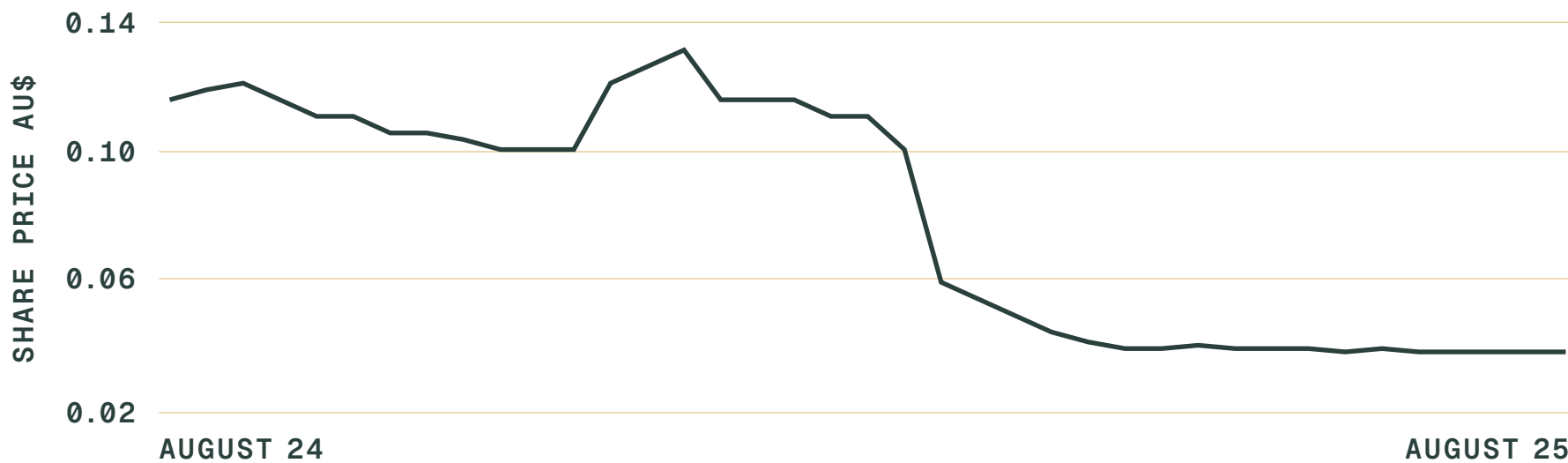
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CORPORATE SNAPSHOT

CAPITAL STRUCTURE (ASX:TEE) (AU\$)

Share Price (5 August 2025)	\$0.037
Shares on Issue	280M
Market Capitalisation (undiluted)	\$10.4M
Cash (end of Q2, 2025)	\$3.8M
Implied Enterprise Value	\$6.6M
Listed \$0.15 Options	69M
Performance Rights	22.5M

PENDING ADR LISTING ON OTCQX THIS QUARTER



BOARD & MANAGEMENT



Luke Velterop **Chief Executive Officer**

- Energy exploration & new energy projects
- Founding developer of the Serpentine Natural Hydrogen Project



Pat Burke **Executive Chairman**

- Corporate Law & Finance
- Former Chairman of Meteoric (ASX: MEI) & Vulcan (ASX: VUL)



Andrew Somoff **Non-Executive Director**

- Energy exploration & development with Santos
- Founded hydrogen, helium & geothermal companies



Emmanuel Correia **Non-Executive Director**

- Corporate Finance & Advisory
- Founder of Peloton Capital & Peloton Advisory

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FAST-TRACK TO INDUSTRY
LEADERSHIP BY DELIVERING
LOW-COST AND LOW-CARBON
NATURAL HYDROGEN TO
EXISTING MID-WEST DEMAND

”

OUR MISSION TO PIONEER A SUSTAINABLE ENERGY FUTURE

SERPENTINE NATURAL HYDROGEN PROJECT

POSITIONED IN ONE OF THE WORLD'S MOST PROSPECTIVE PLAYS

► Global Hotspot

This exploration-stage venture covers more than 30,000 acres in the heart of a globally recognised natural hydrogen play

► Strategic Position

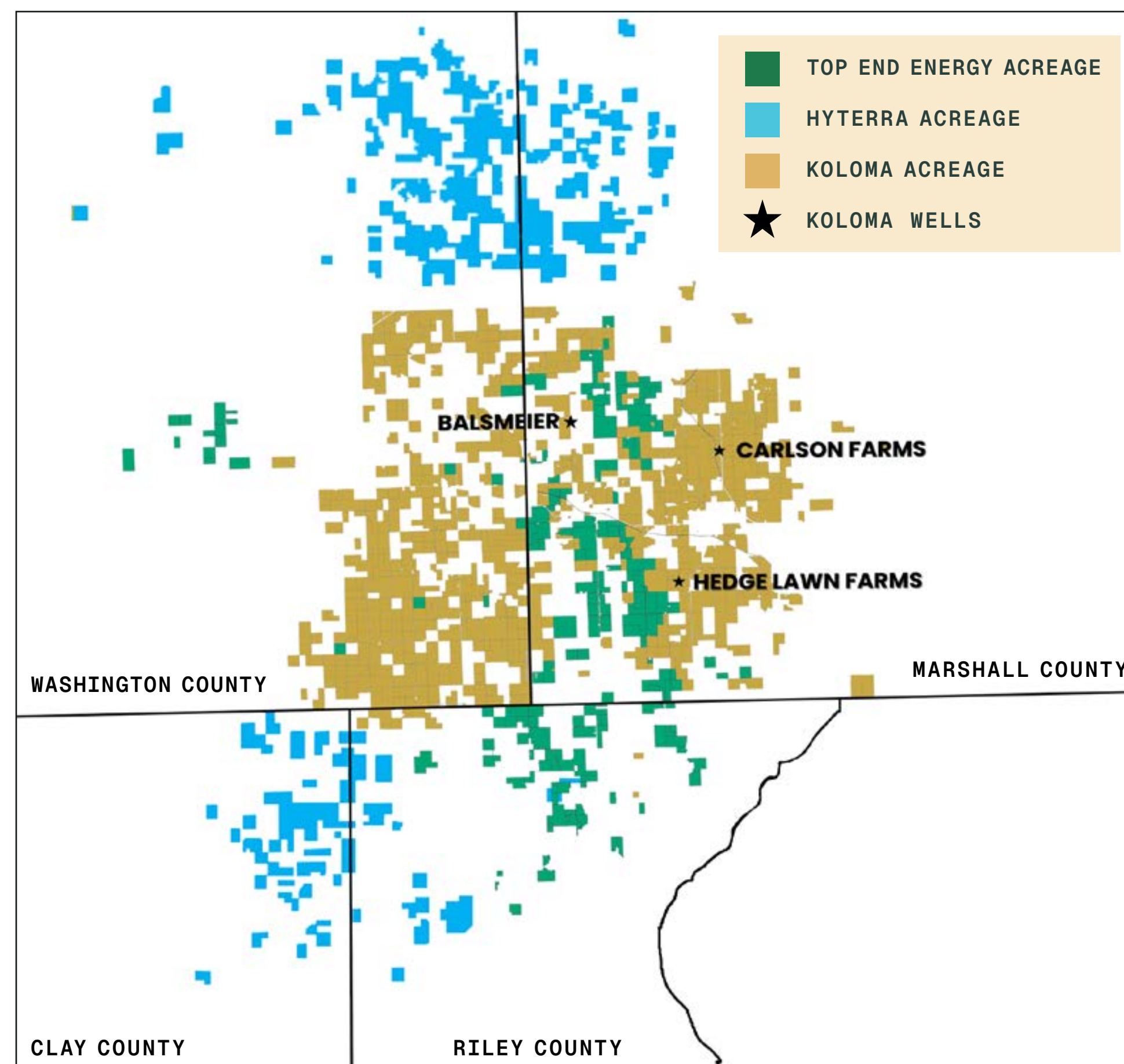
Neighbouring leases are held by Koloma — a U.S. private company and the world's leading natural hydrogen explorer, with over US\$400M raised — and HyTerra, an Australian-listed company that is 40% owned by Fortescue, one of the world's largest mining companies

► Exploration Drilling

Hydrogen shows of up to 96%¹ have already been confirmed through recent exploration drilling. We are advancing multiple high-impact exploration targets which are on track to be drill-ready in 2025

► Partner Engagement

In July, we formally opened a farm-out process, releasing a technically focused presentation and inviting strategic partners to co-develop the Project, with active discussions now underway



In-house map, March 2025

HyTerra lease position sourced from their website
 Koloma (High Plains Resources LLC) leases from county records

¹: HyTerra (ASX: HYT), Significant Hydrogen Concentrations Found in Sue Duroche 3, 6 May 2025

NATURAL HYDROGEN

THE FIRST SOURCE OF PRIMARY ENERGY TO BE DISCOVERED IN A CENTURY

► Why Hydrogen?

A global push towards net-zero has accelerated demand for scalable, low-carbon solutions and positioned hydrogen as a critical industrial and baseload energy source

► What is Natural Hydrogen?

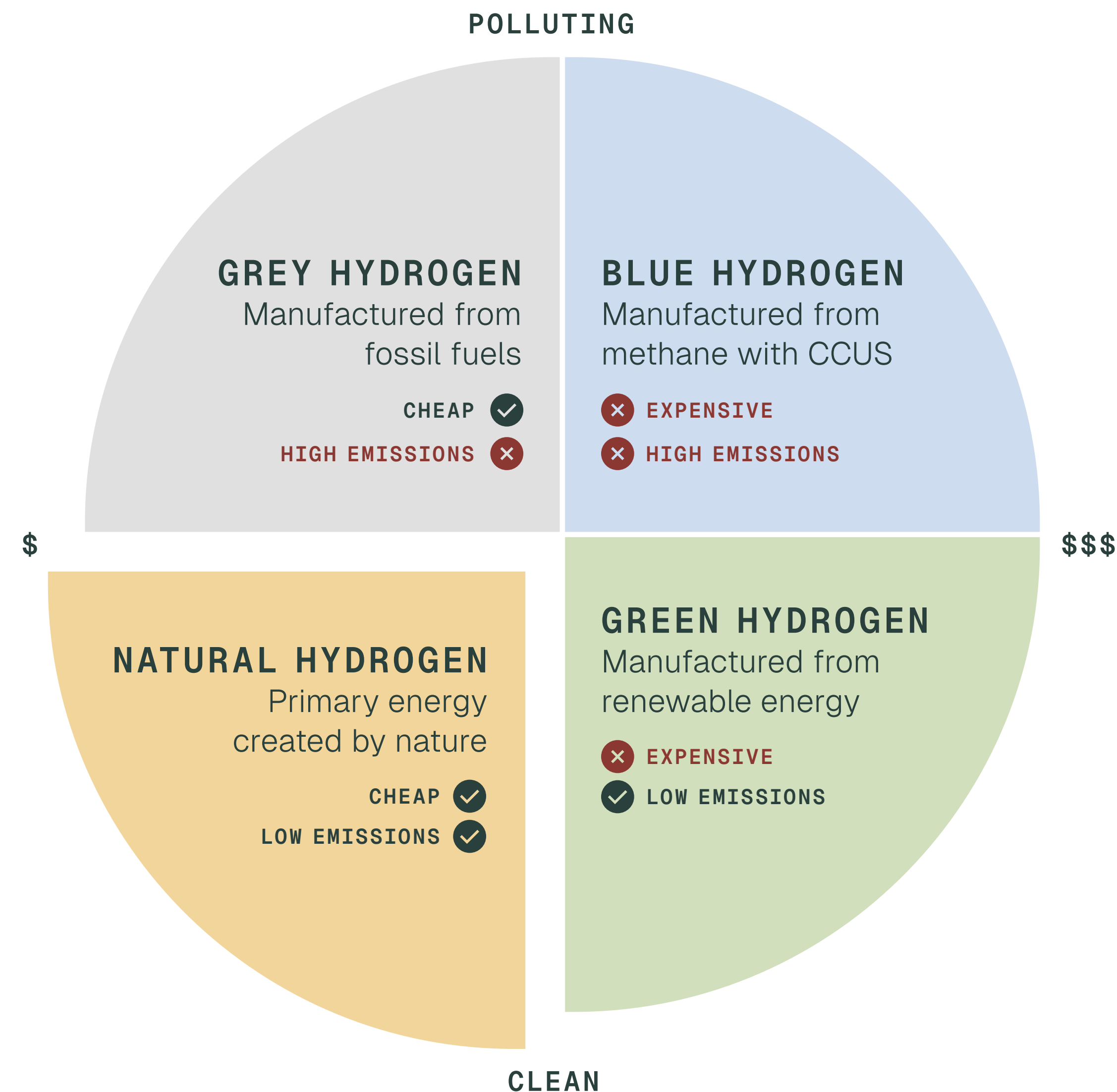
Geologic processes within the Earth's crust generate hydrogen gas, which explorers aim to produce using tools and techniques developed for oil and gas

► How Does it Compare?

Unlike manufactured hydrogen, natural hydrogen is a primary energy source, not just an energy carrier, making it a low-cost, low-carbon alternative

► Why Invest?

Natural hydrogen is a transformative energy frontier, on par with the first oil and gas discoveries of the late 19th century or the shale revolution of the 2000s



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A PROJECT'S VALUE IS ONLY AS STRONG AS ITS MARKET ACCESS

In Kansas, we're at the crossroads of mature agricultural and industrial markets - a rare alignment of resource, infrastructure and offtake

”

PROJECT VS POTENTIAL

HYDROGEN MARKET

TARGETING EXISTING HYDROGEN DEMAND WITHIN U.S. MID-WEST

► Mature \$5B Mid-West Market

We're focused on established ammonia (NH₃) driven demand across the U.S. Corn Belt (Kansas, Nebraska and Iowa) where fertilizer production depends on fossil-fuel derived hydrogen as a critical feedstock

► Displacing Fossil Fuels

Supply ammonia plants with a low-cost and low-carbon hydrogen feedstock by leveraging existing regional transport networks

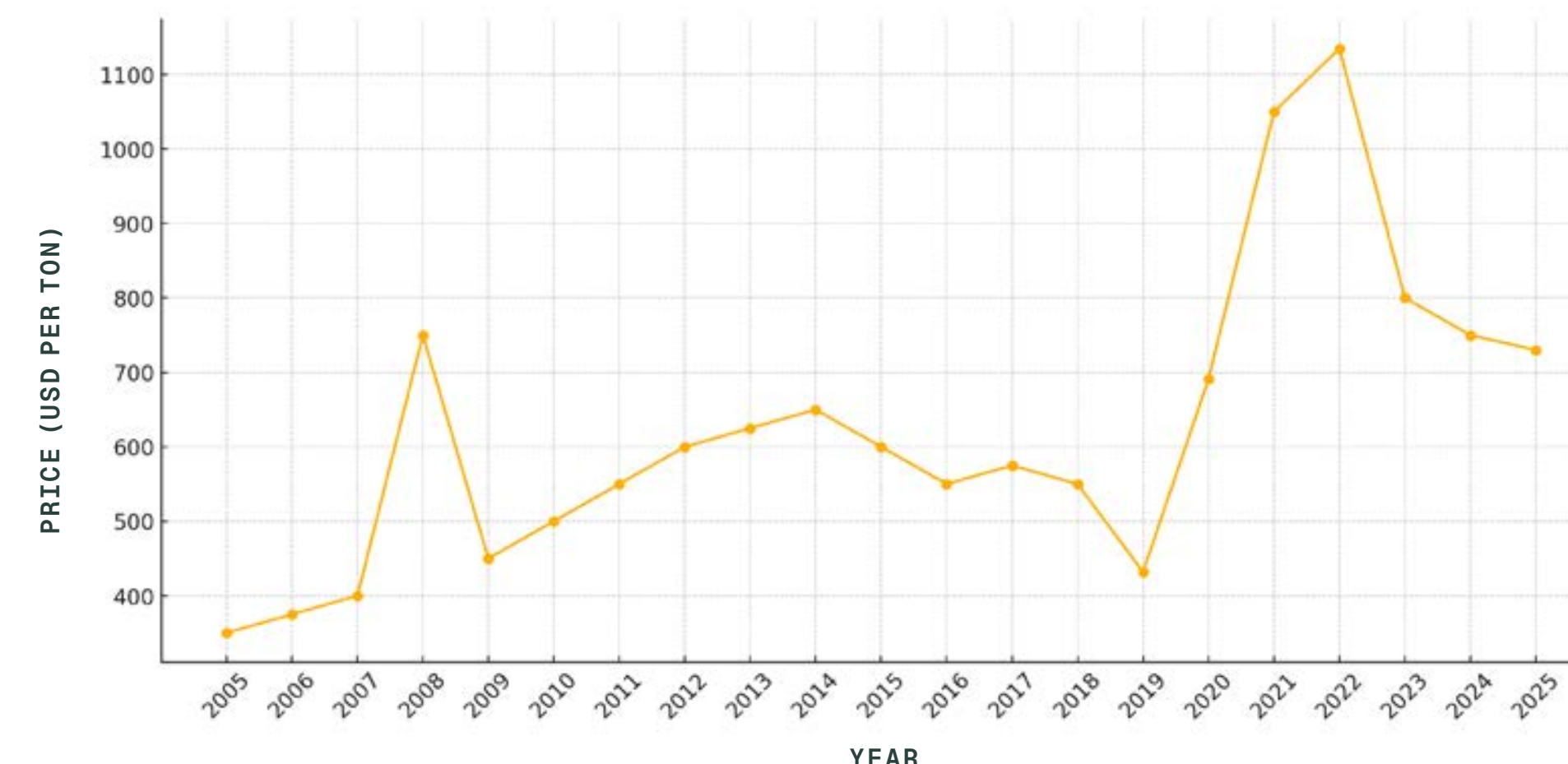
► Scale with Project

Commence with pilot-scale distributed ammonia, reducing the need for on-site hydrogen storage, then scale to purpose-built facilities designed to outcompete natural gas by avoiding costly Steam Methane Reforming

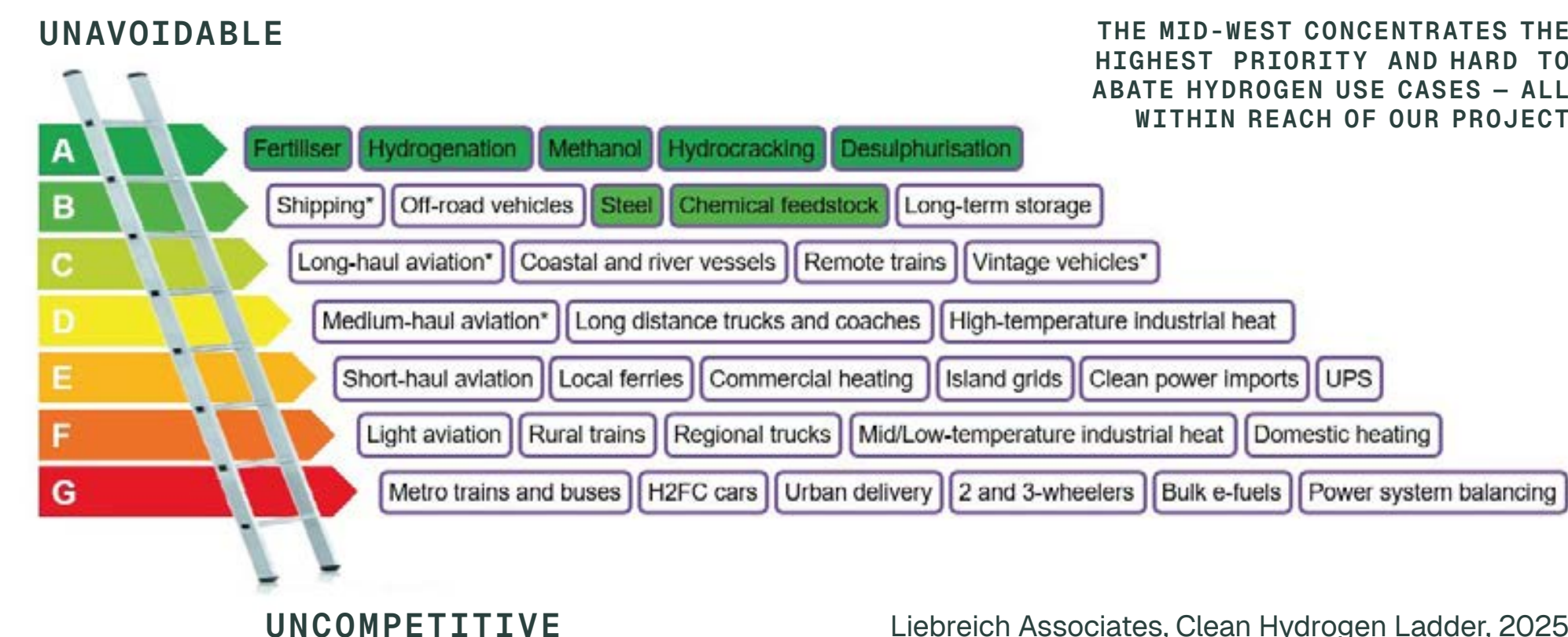
► Active Offtake Interest

We are actively engaged in offtake discussions. The Project's proximity to major regional consumers, including Koch Industries, CF Industries and CVR Energy provides a strategic advantage

MIDWEST U.S. ANHYDROUS AMMONIA PRICES



CLEAN HYDROGEN LADDER
VIAIBLE USES BASED ON ECONOMIC COMPETITIVENESS & NECESSITY



Liebreich Associates, Clean Hydrogen Ladder, 2025

AMERICA'S NEXT ENERGY BOOM

APPLYING THE U.S. SHALE PLAYBOOK TO UNLOCK A NEW ENERGY FRONTIER

► Stage 1: Proof of Concept

In the late 1990's and early 2000's, the advent of fracking combined with horizontal drilling transformed tight reservoirs into high-rate producers

► Stage 2: Scale

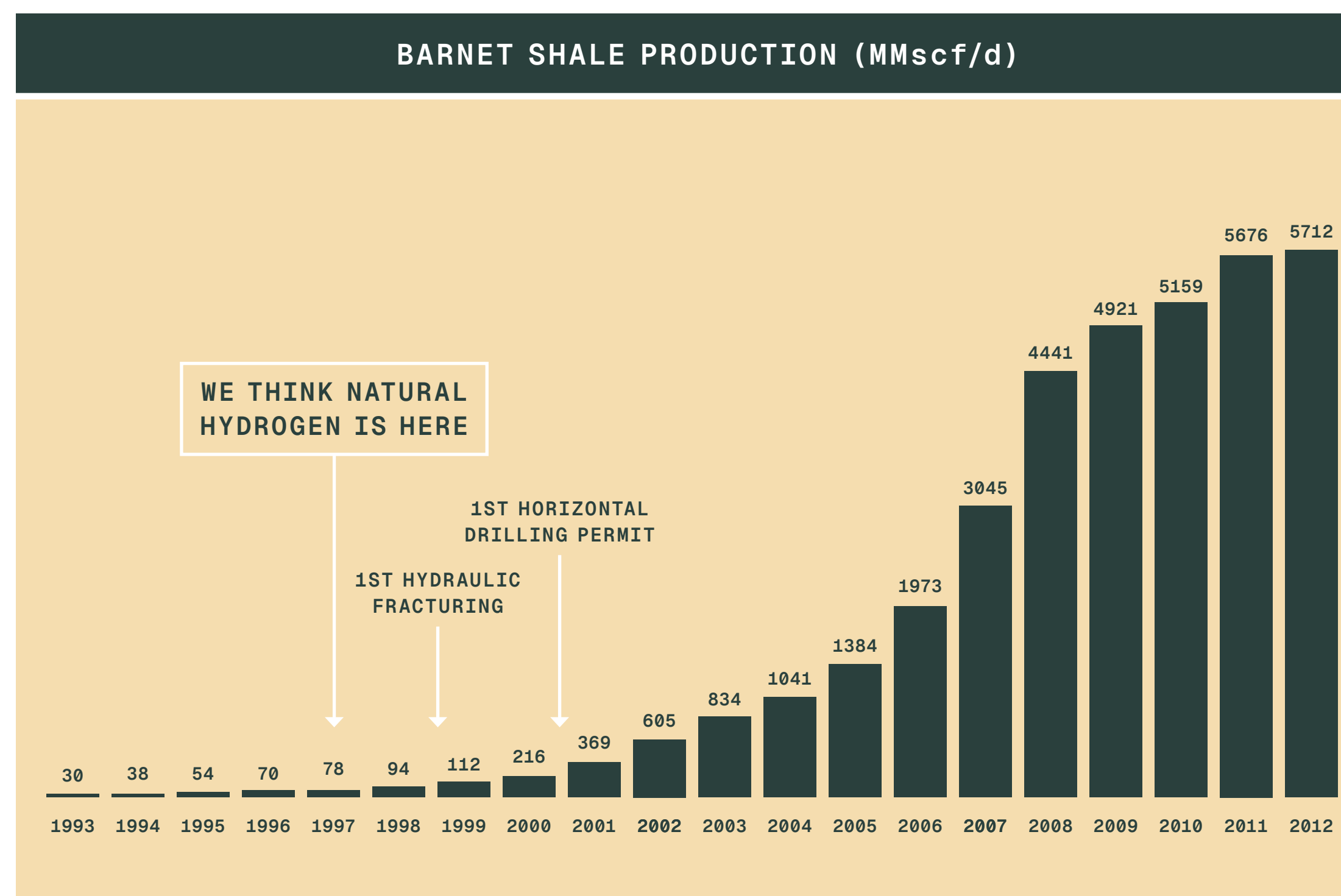
Expanding scale and cost optimisation, saw production expenses plummet and output surge

► Stage 3: Diversify

Once the playbook was defined, it was replicated and repeated, from the Marcellus to the Eagle Ford to the Bakken

► Why it Matters

After more than a century of exploration, the shale boom created an entirely new chapter in energy. **We're on the verge of the next breakthrough — an overlooked resource is now within reach through new ways of thinking and targeted exploration**



Texas RRC, Production Data Query

2025 EXPLORATION STRATEGY

Leasing Phase Q1, 2025

- Completed acquisition of Serpentine Energy
- Secured strategic position in natural hydrogen fairway amid global leaders
- Expanded infill lease holding to 30,000 acres
- Awarded operator licence in Kansas

Pre-Drill Phase Q2 & Q3, 2025

- Technical appointments
- Prospective Resource assessment
- Identification of well sites
- Preparing technical data room
- Progress farm-out strategy to attract development partners

Exploration Phase Q4, 2025

- Joint development with farm-in partners
- Advance site works and vendor contracts
- Commence multi-well exploration drilling program with partners

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USGS has unveiled its natural hydrogen prospectivity map

**WE CALCULATE THE ENERGY CONTENT OF
THE ESTIMATED RECOVERABLE AMOUNT
OF HYDROGEN TO BE ROUGHLY TWICE THE
AMOUNT OF ENERGY IN ALL THE PROVEN
NATURAL GAS RESERVES ON EARTH**

”

UNITED STATES GEOLOGICAL SURVEY, 2024

PROSPECTIVE RESOURCE VOLUMES

INDEPENDENT ASSESSMENT OF THE RECOVERABLE HYDROGEN RESOURCE VOLUMES

► Resource Density

Recoverable volumes across the Project lease holding indicate a strong resource density that underpins its technical viability and supports the case to advance exploration drilling

► Additional Resource Upside

Resource volumes are based on conventional potential of the Hunton, Viola, Simpson and Arbuckle through to the unconventional potential of the basement

Additional upside in shallower intervals, such as the Lansing where HyTerra recently recorded 96% H₂ at depths of less than 1,000 ft has not been factored in

► Future Work

Ongoing evaluation, subsurface interpretation and exploration activities - including drilling and geophysics are expected to improve the risking profile, narrow resource ranges and incorporate additional volumes from shallow reservoirs

NET RECOVERABLE PROSPECTIVE HYDROGEN RESOURCE

1U	2U	Mean	3U
71 BCF	234 BCF	304 BCF	629 BCF
168 k tonnes	552 k tonnes	716 k tonnes	1,485 k tonnes

Cautionary Statement: The estimated quantities of hydrogen that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both a risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially recoverable hydrogen.

Ch 5 LR: The Prospective Resource estimates are quoted on an unrisks basis and are aggregated arithmetically by category. The Company is not aware of any new information or data that materially affects the information included in the ASX release and all material assumptions and technical parameters underpinning the estimates in the ASX release continue to apply and have not materially changed. Refer to ASX release 2 July 2025, Independent Prospective Hydrogen Resource in Kansas.

WHY INVEST?

► De-Risking Underway

Recent exploration drilling confirms an active hydrogen system, with independent resource estimates reinforcing the Project's potential

► Fast Follower Advantage

We're moving fast using a proven road-map and exploration strategies defined by first movers

► Engaging Strategic Partners

Our farm-out strategy can unlock resource upside while minimising dilution

► Technically Advanced

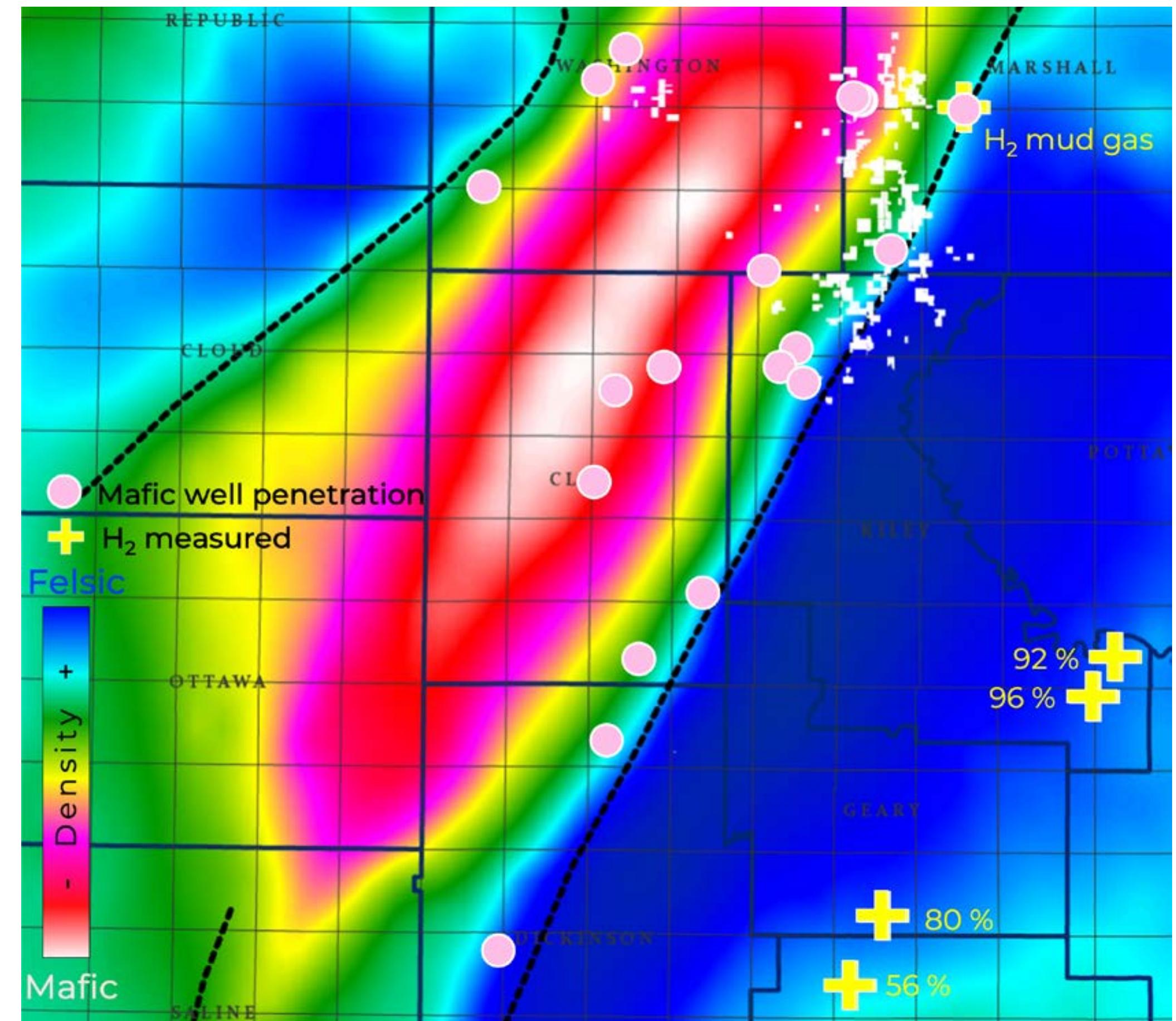
We have developed a robust geological model and are fully funded to advance multiple exploration targets to drill-ready status

► Growth Potential

Trading at a deep discount to peers, with exposure to the same high-potential geological plays

► Window is Now

Early entry – before strategic partnerships and drilling drives a re-rate



Residual Bouguer Gravity (700m), Kansas Geological Survey

BEETALOO SUB-BASIN, NORTHERN TERRITORY, AUSTRALIA

► Proven Basin

EP 153 and EP 154 are located in the Beetaloo Sub-basin directly north of Tamboran Resources (NYSE: TBN, ASX: TBN) EP 98 and the Shenandoah prospect

► Key Results

Flow testing of SS-2H ST1 well delivered record flow results in line with production from U.S. Marcellus Shale wells

► Ongoing Drilling

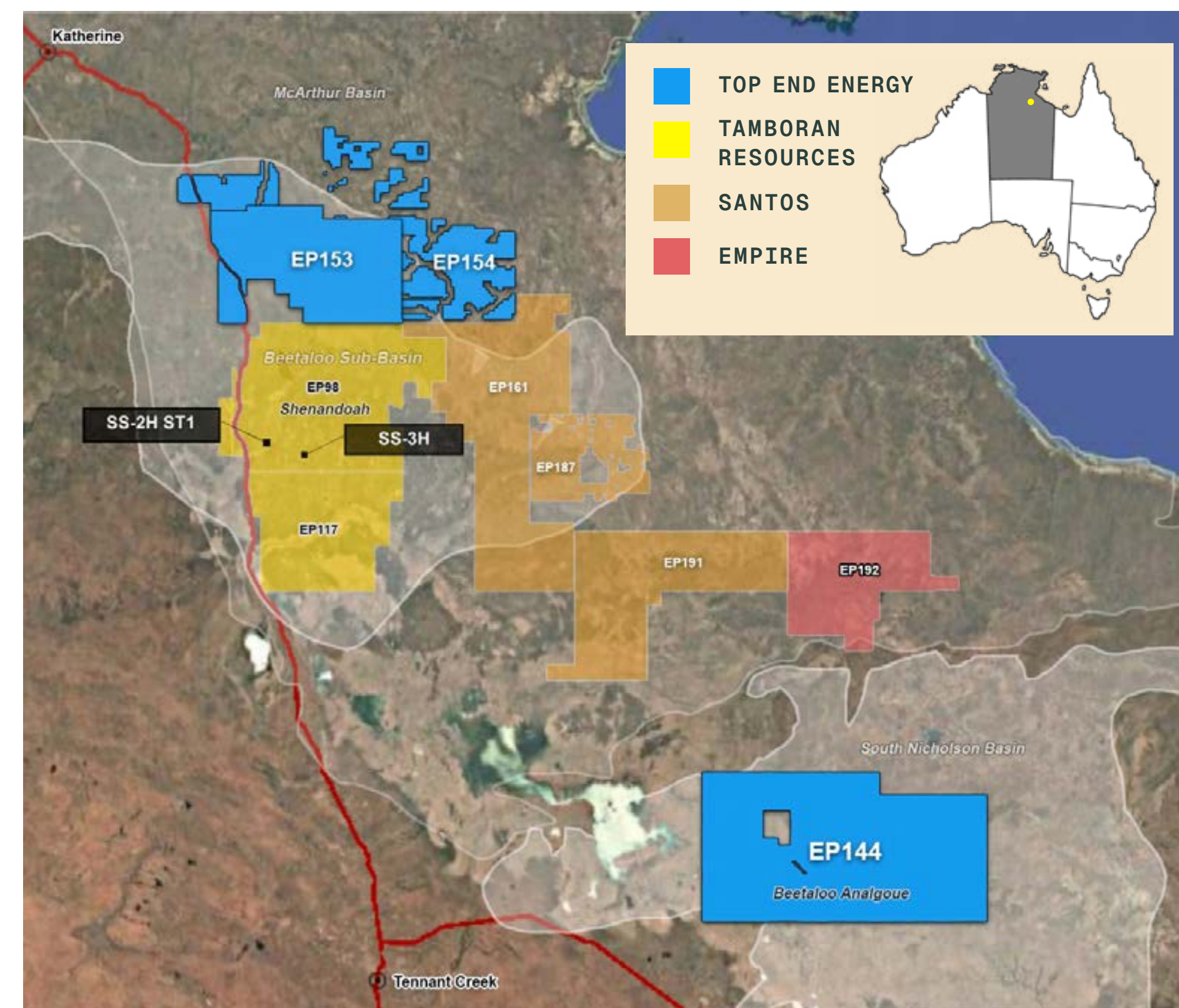
Tamboran has commenced its three-well Shenandoah South Pilot Project, with the spudding of the SS-4H well using a Helmerich & Payne (NYSE: HP) rig mobilised from Texas

► Strategic Position

Our Exploration Permits have an infrastructure advantage, being adjacent to the Amadeus Gas Pipeline and Northern Gas Pipeline for future market access

► Beetaloo Analogue

EP 144 is an underexplored permit in the heart of the South Nicholson Basin



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Top End Energy Ltd (ASX: TEE, US ADR Pending) is an industrial gas explorer

In Kansas, USA, the Company is advancing the Serpentine Natural Hydrogen Project, with exclusive rights over more than 30,000 acres in one of the sector's most advanced and competitive natural hydrogen plays

In Northern Territory, Australia, the Company holds exploration permits on the northern flank of the Beetaloo Sub-basin, directly north of Tamboran Resources and adjacent to the key pipelines for future market access

TOP END
—ENERGY—
THE ENERGY OF TOMORROW



ASX:TEE



Top End Energy Ltd

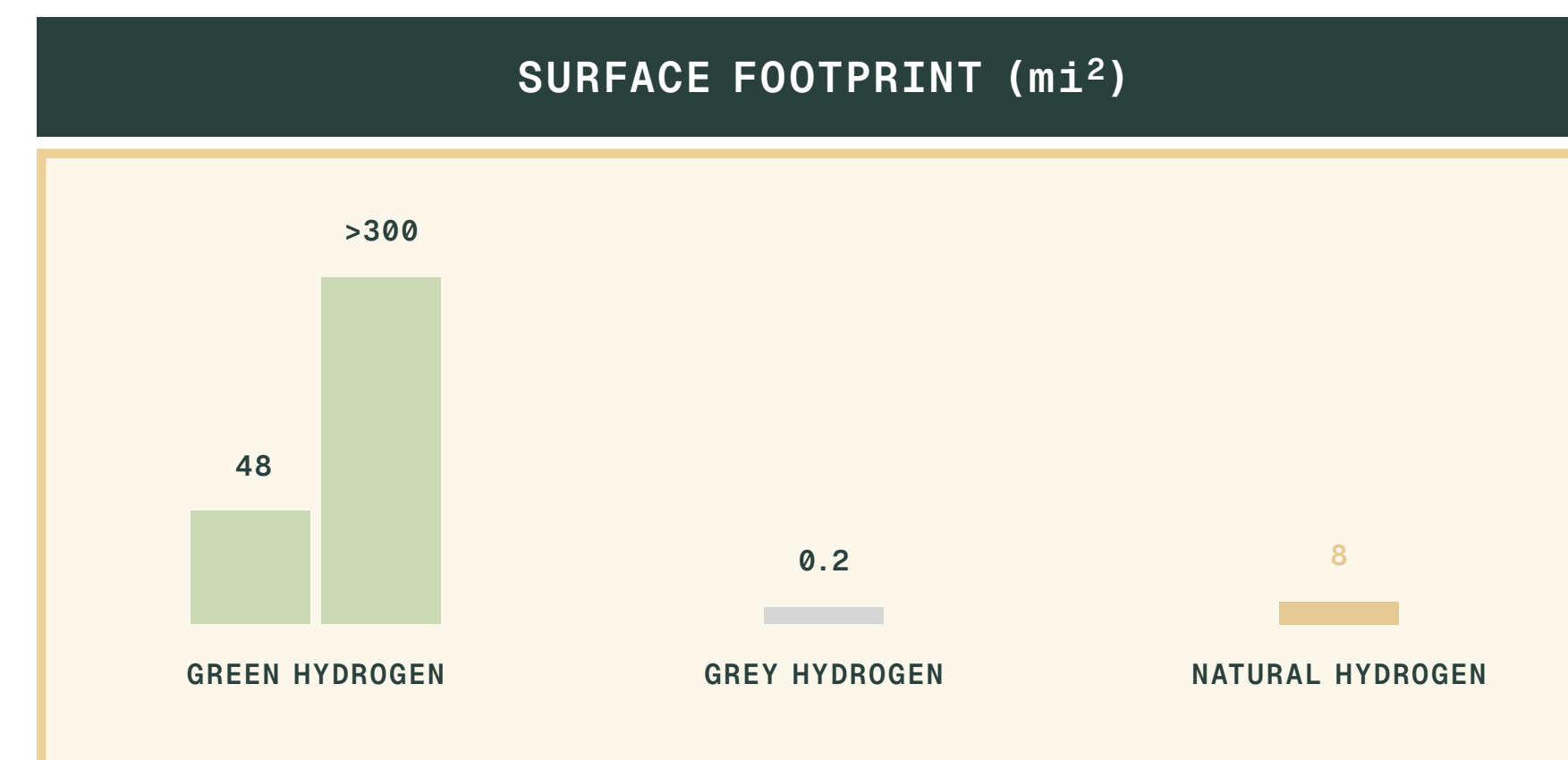
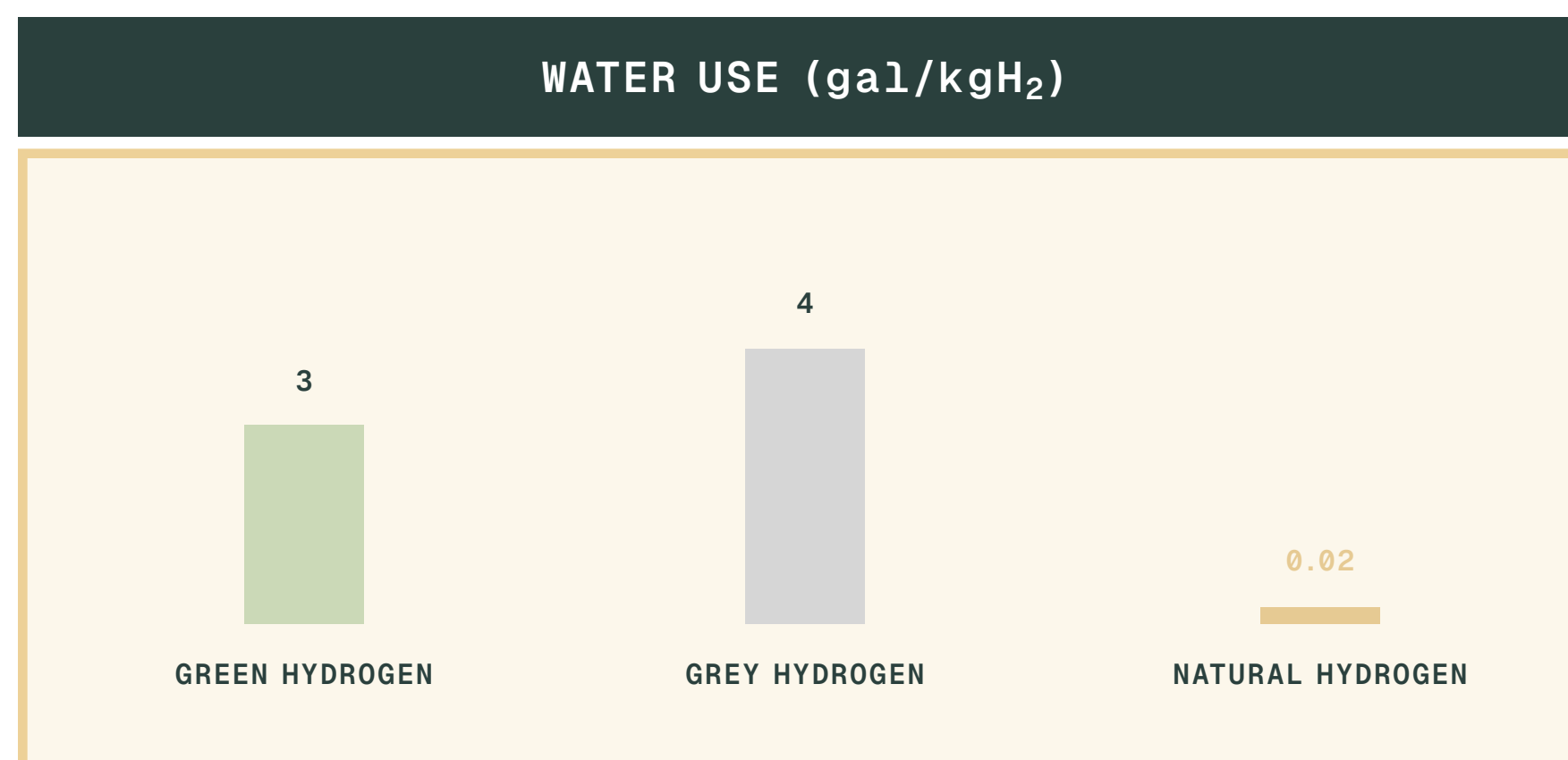
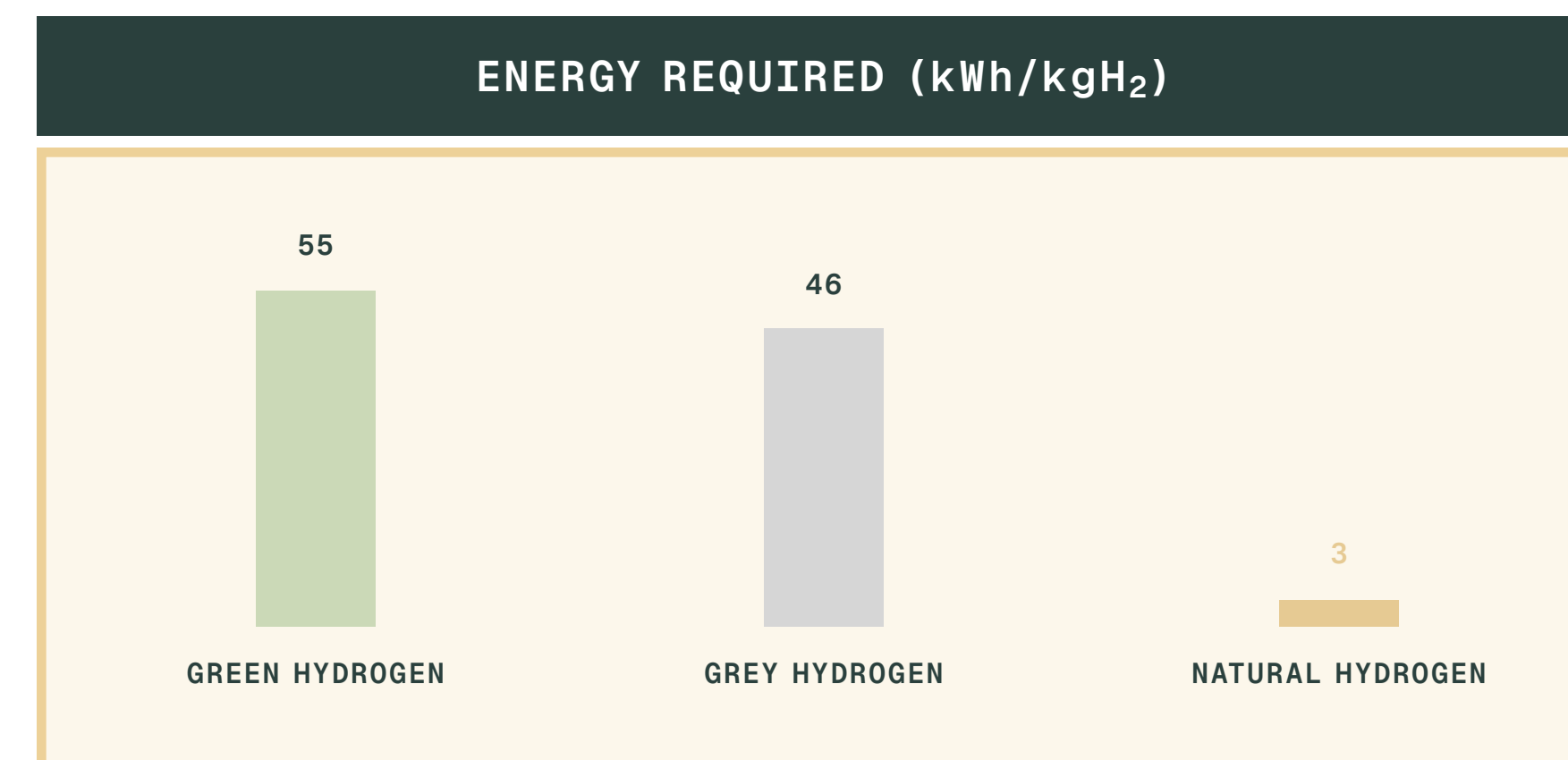
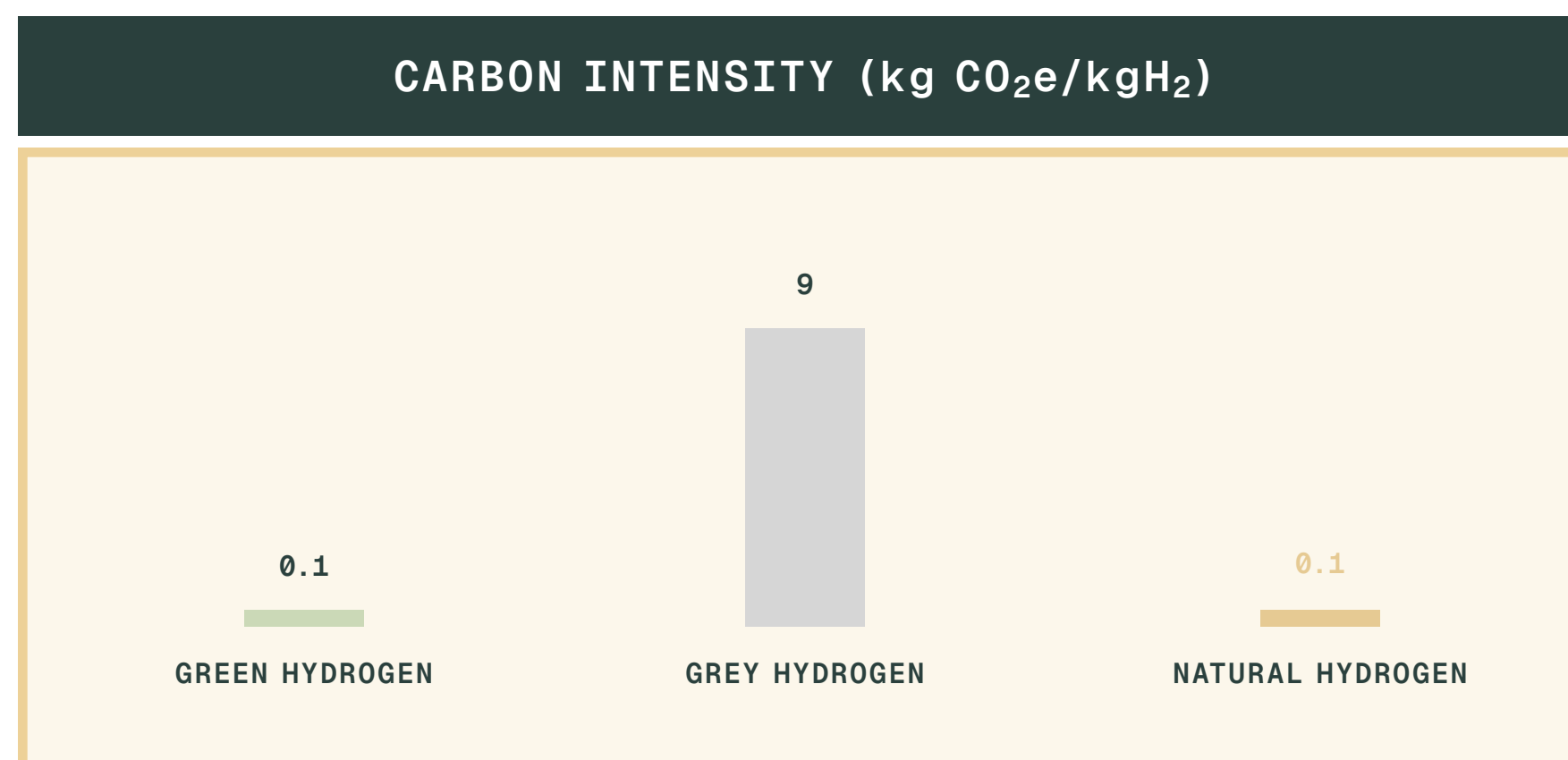


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LOW CARBON, LOW IMPACT, EFFICIENT & SUSTAINABLE



koloma.com/geologic-hydrogen

HYDROGEN PLAY CONCEPTS

PAIRING CONVENTIONAL TRAPS WITH A VAST UNCONVENTIONAL BASEMENT PLAY

► Key Elements of Hydrogen System

Hydrogen exploration shares many of the same critical success factors as hydrocarbons, allowing us to leverage existing knowledge to develop prospects and reduce risk

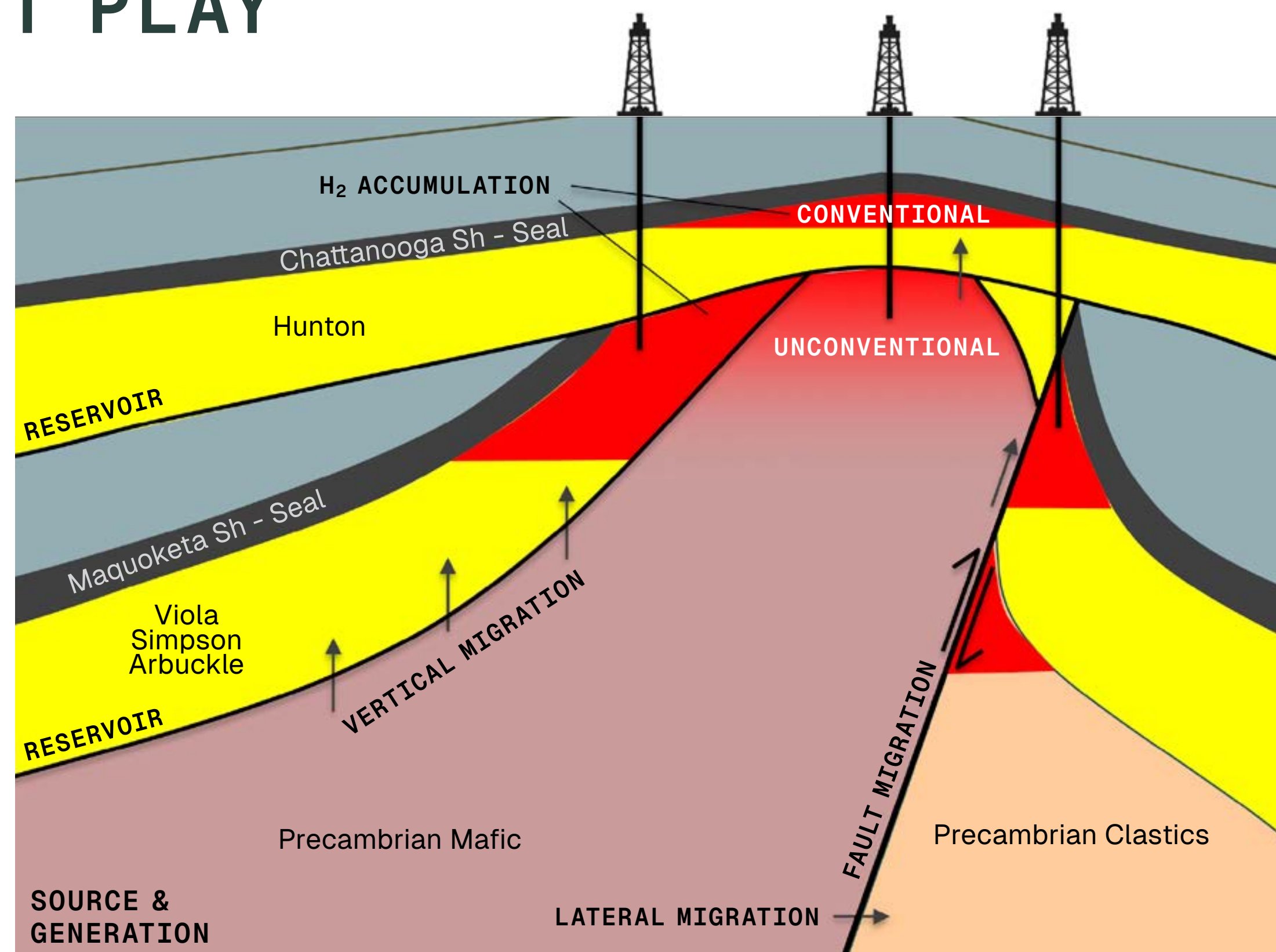
- Source
- Reservoir
- Trap / Seal

► Conventional Play

Hydrogen is generated in basement source rocks and migrates into porous sedimentary sandstone and carbonate reservoirs, where it accumulates under shale seals

► Unconventional Play

Hydrogen is generated in situ and accumulates within the fractured mafic basement, forming a laterally extensive direct source-reservoir system



In-house, Play Concepts

HELIUM POTENTIAL

ADDED VALUE AND NEAR-TERM COMMERCIALISATION

► Co-Existing Gases

Natural hydrogen exploration is increasingly detecting significant helium concentrations. Both gases are generated in or adjacent to crystalline basement and migrate together along the same fracture networks and fault corridors. A coexisting H₂–He system not only enhances project economics through a high-value secondary product but also creates a pathway to near-term revenue.

Recent examples include:

- **HyTerra in Kansas:** 96% H₂ / 5% He; and 16% H₂ / 4% He
- **Gold Hydrogen in South Australia:** 96% H₂ / 17% He
- **Helix Exploration in Montana:** 55% H₂ / 2% He

► Kansas Drives Helium Supply

Kansas is America's leading helium state, with eight helium processing plants and discoveries dating back over a century, the state has a long history of extraction, processing and transport. The supportive state framework and established infrastructure ensure reliable production and scalable growth. With global demand surging and spot helium prices reaching \$1,000–\$1,500 Mcf, Kansas is well-positioned to deliver into a high-value and supply constrained market

Source:

HyTerra (ASX: HYT) announcement 6 May 2025 and 3 July 2025
 Gold Hydrogen (ASX: GHY) announcement 5 March 2024
 Helix Exploration (AIM: HEX) investor presentation, 25 April 2025