



FUSION FUEL™



Q1 2022 Presentation

26 May 2022

Disclaimer

This presentation includes statements of future events, conditions, expectations, and projections of Fusion Fuel Green plc (the “Company”). Such statements are “forward looking statements” within the meaning of the “safe harbor” provisions of the United States Private Securities Litigation Reform Act of 1995. The Company’s actual results may differ from its expectations, estimates and projections and, consequently, you should not rely on these forward-looking statements as predictions of future events. Words such as “expect,” “estimate,” “project,” “budget,” “forecast,” “anticipate,” “intend,” “plan,” “may,” “will,” “could,” “should,” “believe,” “predict,” “potential,” and similar expressions are intended to identify such forward-looking statements. These forward-looking statements include, without limitation, estimates and projections of future performance, which are based on numerous assumptions about sales, margins, competitive factors, industry performance and other factors which cannot be predicted. Such assumptions involve a number of known and unknown risks, uncertainties, and other factors, many of which are outside of the Company’s control, including, among other things: the failure to obtain required regulatory approvals; changes in Portuguese, Spanish, Moroccan, or European green energy plans; the ability to obtain additional capital; field conditions and the ability to increase production capacity; supply chain competition; changes adversely affecting the businesses in which the Company is engaged; management of growth; general economic conditions, including changes in the credit, debit, securities, financial or capital markets; and the impact of COVID-19 or other adverse public health developments on the Company’s business and operations. Should one or more of these material risks occur or should the underlying assumptions change or prove incorrect, the actual results of operations are likely to vary from the projections and the variations may be material and adverse.

The forward-looking statements and projections herein should not be regarded as a representation or prediction that the Company will achieve or is likely to achieve any particular results.

The Company cautions readers not to place undue reliance upon any forward-looking statements and projections, which speak only as of the date made. The Company does not undertake or accept any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements to reflect any change in its expectations or any change in events, conditions or circumstances on which any such statement is based.

Financial Update Presentation

The Company’s consolidated financial data is prepared in accordance with International Financial Reporting Standards as adopted by the International Accounting Standards Board (“IFRS”) and is denominated in Euros (“EUR” or “€”). The numbers shown in this presentation have not been audited and therefore may vary to the final financial results disclosed by the company as part of the annual report. The unaudited consolidated financial data reflects, in the opinion of management, all adjustments, consisting of normal recurring adjustments, considered necessary for a fair statement of the Company’s financial data for the periods indicated. The unaudited consolidated financial data should be read in conjunction with the audited consolidated financial statements and notes thereto for the year ended December 31, 2020 included in the Company’s Annual Report on Form 20-F for the year ended December 31, 2020.

Use of Social Media as a Source of Material News

The Company uses, and will continue to use, its LinkedIn profile, website, press releases, and various social media channels, as additional means of disclosing information to investors, the media, and others interested in the Company. It is possible that certain information that the Company posts on social media or its website, or disseminates in press releases, could be deemed to be material information, and the Company encourages investors, the media and others interested in the Company to review the business and financial information that the Company posts on its social media channels, website, and disseminates in press releases, as such information could be deemed to be material information.

AGENDA

- Focus on Fusion
- Q1 Financials & Highlights
- Key Markets, Projects Contracted & Grants
- Production & Tech
- Team
- Chairman's Remarks
- Q&A

FUSION-FUEL™

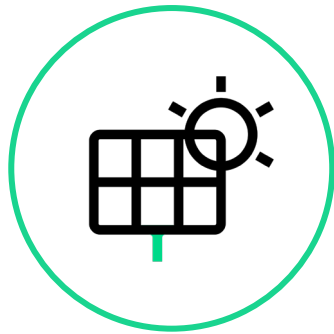
01—
*FOCUS
ON FUSION*





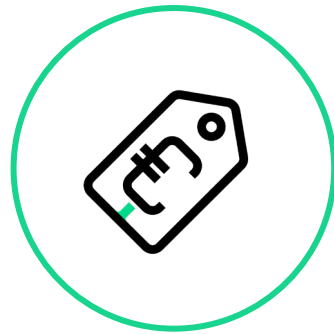
Massive Addressable Market

Potential green H₂ production TAM of \$250 billion by 2025; \$1.2 trillion by 2050



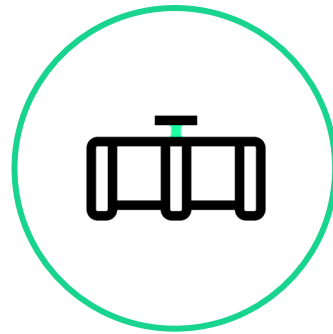
Grid-Independent Solution

Integrated solar-to-hydrogen technology unlocks grid-independence



Cost Leadership

Patented technology enables a market-leading leveled cost of hydrogen



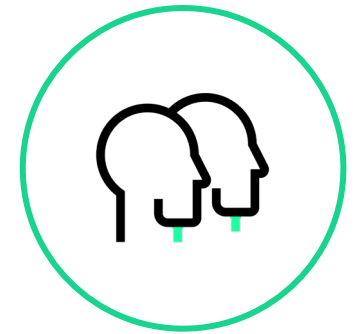
First Mover Advantage

Fusion Fuel is producing green hydrogen in Portugal today



Near-Term Growth Ramp

Pipeline of over 170,000 tpa of green hydrogen production



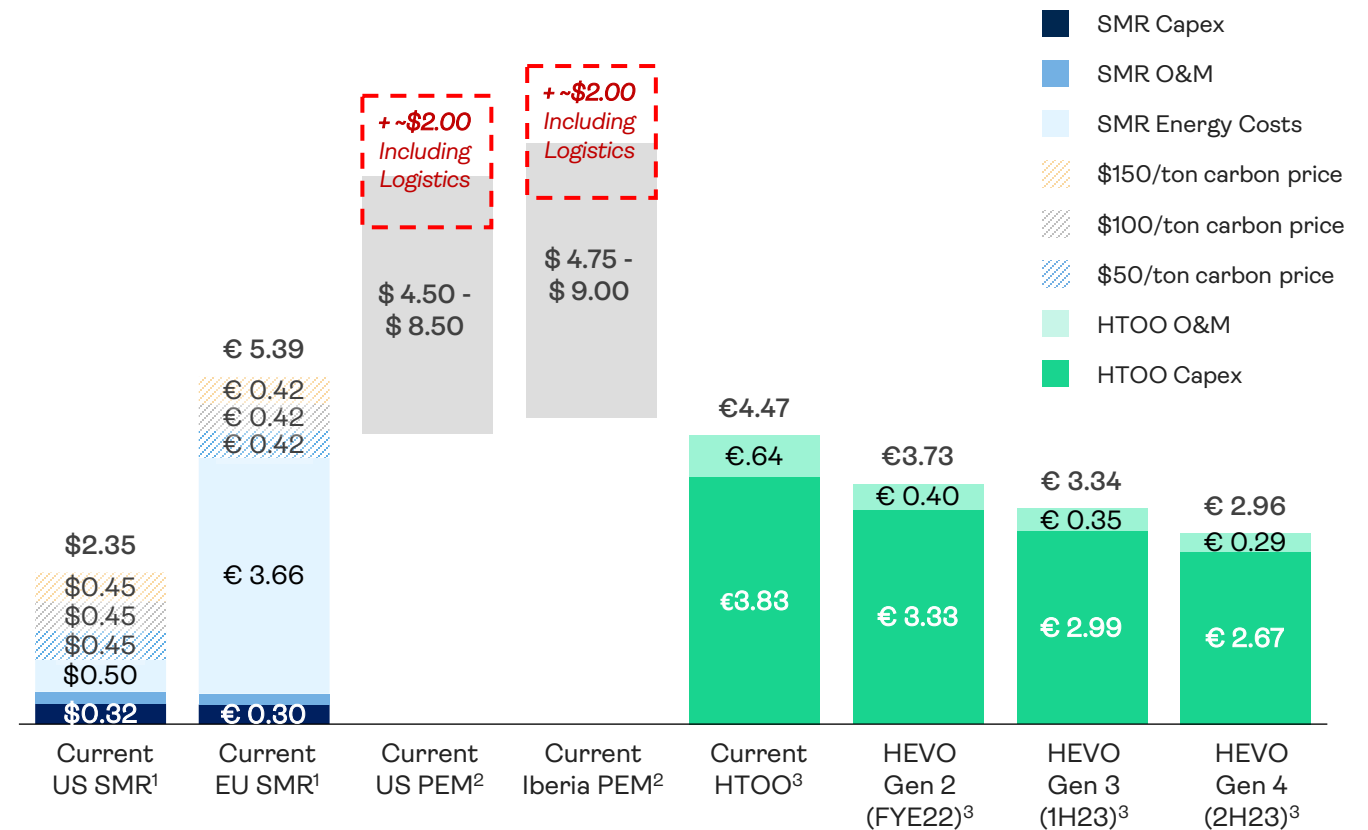
Experienced Management Team

Extensive track record in the energy and renewables sectors

The economics of conventional hydrogen production are under pressure; our grid-independent solution has a significant cost advantage in this market environment

- Traditional grey hydrogen produced from SMR is challenged by elevated gas prices and increasing carbon costs
- Volatility in the price and availability of renewables adds complexity when relying on centralized, industrial electrolyzers
- Last-mile logistics adds considerable cost to move molecules from centralized production
- De-risked cost reductions drive highly attractive LCOH; integrated solar-to-hydrogen approach provides certainty of cost

LCOH Analysis by Mode of Production



Source: Fusion Fuel January 2021 Investor Day Presentation, Management; Street Research; BNEF "U.S. Clean H₂: The Future Might Finally Be Here" (2021)

¹ Bloomberg strip pricing for 2023 as of May 13, 2022 (National Balancing Point: US\$24.46/MMbtu; Henry Hub strip pricing: US\$5.38/MMbtu)

² Assumes 2022 operational year; range based on electrolyzer technology (Western PEM vs. Western Alkaline) and renewable energy source (PV fixed axis, PV tracking, onshore wind, offshore wind)

³ Assumes hydrogen is produced at 4 bar at 99.995% purity; LCOH analysis does not include: grant funding, purification from 99.995 to 99.999%, additional compression above 4 bar, storage equipment, or civil construction / EPC costs

02—
Q1 HIGHLIGHTS &
FINANCIAL REVIEW



Key Developments

- Zachary Steele and Frederico Figueira de Chaves appointed as Co-Heads of Fusion Fuel
- Zachary Steele and Jason Baran appointed as Co-Presidents of Fusion Fuel Americas and members of the Executive Committee
- Confirmed tech sales and grant income for 2022 of €4.2m
- Advanced 6 projects into late stage of development totaling over €20m in income potential (including grants) in 2022
- Entered into commercial partnerships with AESA and HIVE Energy

Subsequent Events

- Entered new markets in Egypt and North America
- Secured an additional €4.2m in grant income for a total of €8.4m in 2022
- Launch of HEVO production line at Benavente factory; full launch on track for 2H22
- Executed commercial & technical MOU with Toshiba ESS

02 – FINANCIAL DATA (UNAUDITED)

FUSION FUEL™

KEY FINANCIALS & FIGURES (€000'S) (Unaudited)	Q1 2022	Q4 2021
o/w share-based payment (non-cash) expenses ¹	(802)	14,765
o/w operating expenses ²	(3,037)	(3,654)
OPERATING (LOSS) INCOME	(3,839)	11,111
o/w fair value movement – warrants ³	(4,714)	13,089
o/w finance loss, net ⁴	(454)	(140)
o/w share of loss of equity-accounted investees ⁵	(115)	-
PRE-TAX (LOSS) INCOME	(9,122)	24,060
CASH & CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS	23,283	35,134

¹ The Q1/2022 expenses relates to the Company granting 57,896 RSU's to employees, directors and consultants during the year ended December 31, 2021, and 50,000 RSU's to employees during Q1/2022. In Q1/2022, the Company issued 2,128,554 options, in total, to five of its senior managers and all non-executive directors. As the RSUs and options awarded are dependent on future service being provided to the Company, the Company considers them to be service awards under IFRS 2 and classifies both the expected share awards in equity with a corresponding compensation expense in the income statement. These are non-cash expenses.

² These expenses are related with the operational activity of the Group. Our personnel costs increased in Q1/2022 due to our inflated headcount and this was offset by decreases to professional fees and general operating costs.

³ Derivatives are initially recognized at their fair value on the date the derivative contract and transaction costs are expensed to profit or loss. Warrants are subsequently re-measured at fair value at each reporting date with changes in fair value recognized in profit or loss. The fair value of the warrants is determined with reference to the prevailing market price on NASDAQ under the ticker HTOOW. Warrants were only exercised during Q1 2021. These fair value movements represent non-cash items.

⁴ Included in this caption are positive foreign exchange rate variances being offset by a reduction in the fair value of our short-term investments.

⁵ This relates to the Company's investment in Fusion Fuel Spain, S.L. ("Fusion Fuel Spain"). The Company holds a 50% interest in Fusion Fuel Spain and extended a loan facility up to €2 million of which €0.2 million had been drawn down during Q1/2022. The Company's investment in Fusion Fuel Spain is accounted for using the equity method. Under the equity method, the investment is initially recognised at cost. The carrying amount is adjusted to recognise changes in the Company's share of net assets of the joint venture since the acquisition date.

02 – FINANCIAL DATA (UNAUDITED)

FUSION-FUEL™

SHARES, WARRANTS AND EQUITY PLAN AT PERIOD END	Q1 2022	Q4 2021
ORDINARY SHARES		
Class A	10,998,723	10,998,723
Class B	2,125,000	2,125,000
TOTAL SHARES OUTSTANDING	13,123,723	13,123,723
WARRANTS OUTSTANDING	8,869,633	8,869,633
RSUs OUTSTANDING	92,761	42,896
OPTIONS GRANTED¹	2,128,554	-

¹ During Q1 2022, the Company issued 2,128,554 options to members of its executive committee and to all non-executive directors. These options were all issued under the 2021 Equity Incentive Plan, which commenced during Q3 2021 and provides the recipient with the option to exercise at a future point in time in exchange for one Class A Ordinary Share. Each option award includes a minimum strike price and has either service, market or non-market conditions attached. The Company considers the options to be service awards under IFRS 2 and classifies the expected share awards in equity with a corresponding compensation expense in the income statement. The fair value of the options is determined on the date of grant using the Black-Scholes option pricing model. The fair value of RSUs is expensed rateably over the vesting period, which varies by award. This is a non-cash expense.

03—
**KEY MARKETS,
PROJECTS
CONTRACTED &
GRANTS**



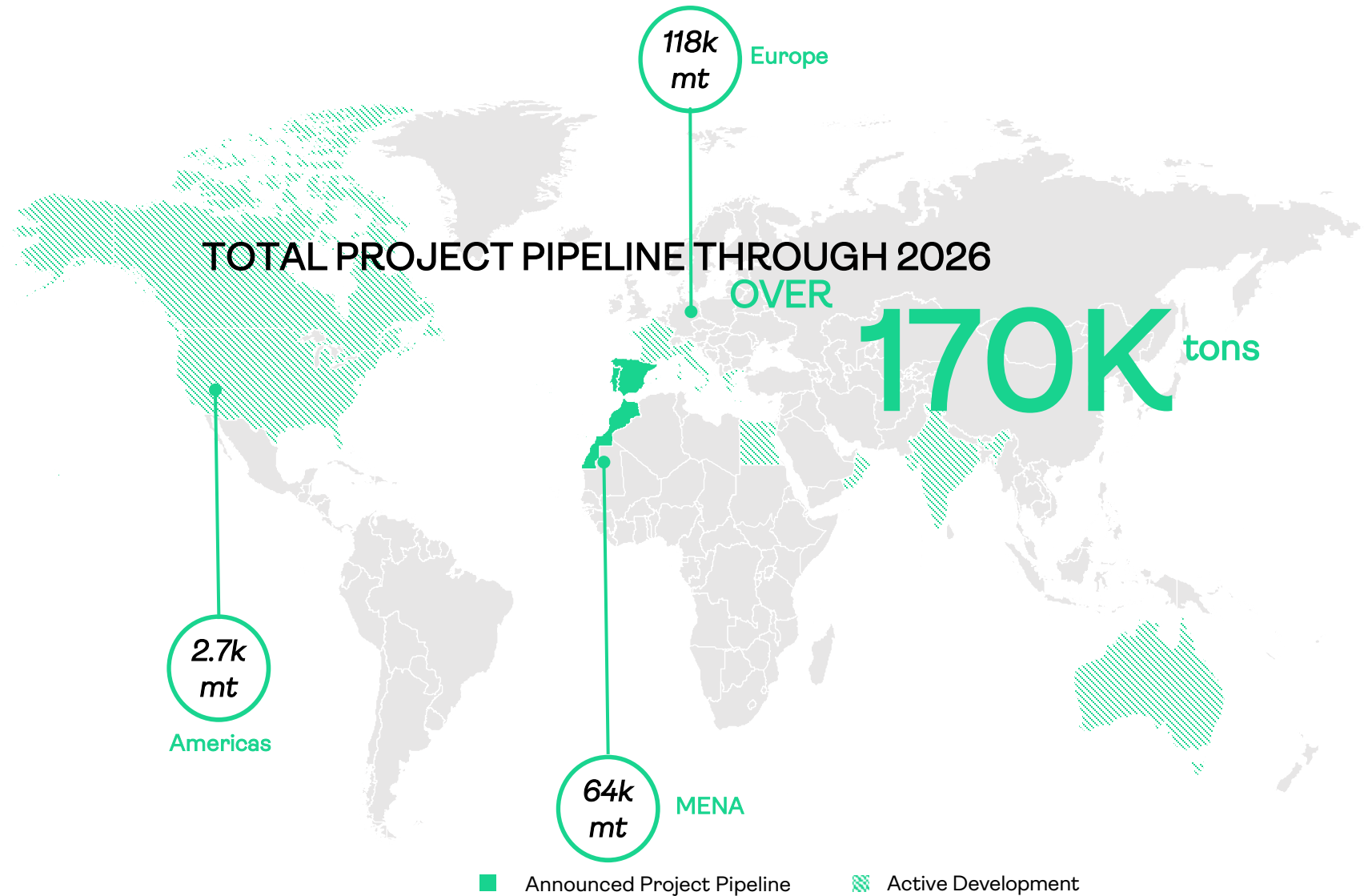
03 – H₂ VALUE CHAIN AND KEY MARKET SEGMENTS

Fusion Fuel is unique in the market due to its ability to produce green hydrogen on-site, off-grid, economically at both small and large scale.

We have already laid the groundwork within each of our core market segments with foundational projects that establish a track record of execution and delivery.



Fusion Fuel's proprietary technology is gaining early market momentum with a robust commercial opportunity pipeline including prospective technology sales and company-owned projects across various stages of negotiation and licensing



03 – ACTIVE DEVELOPMENT

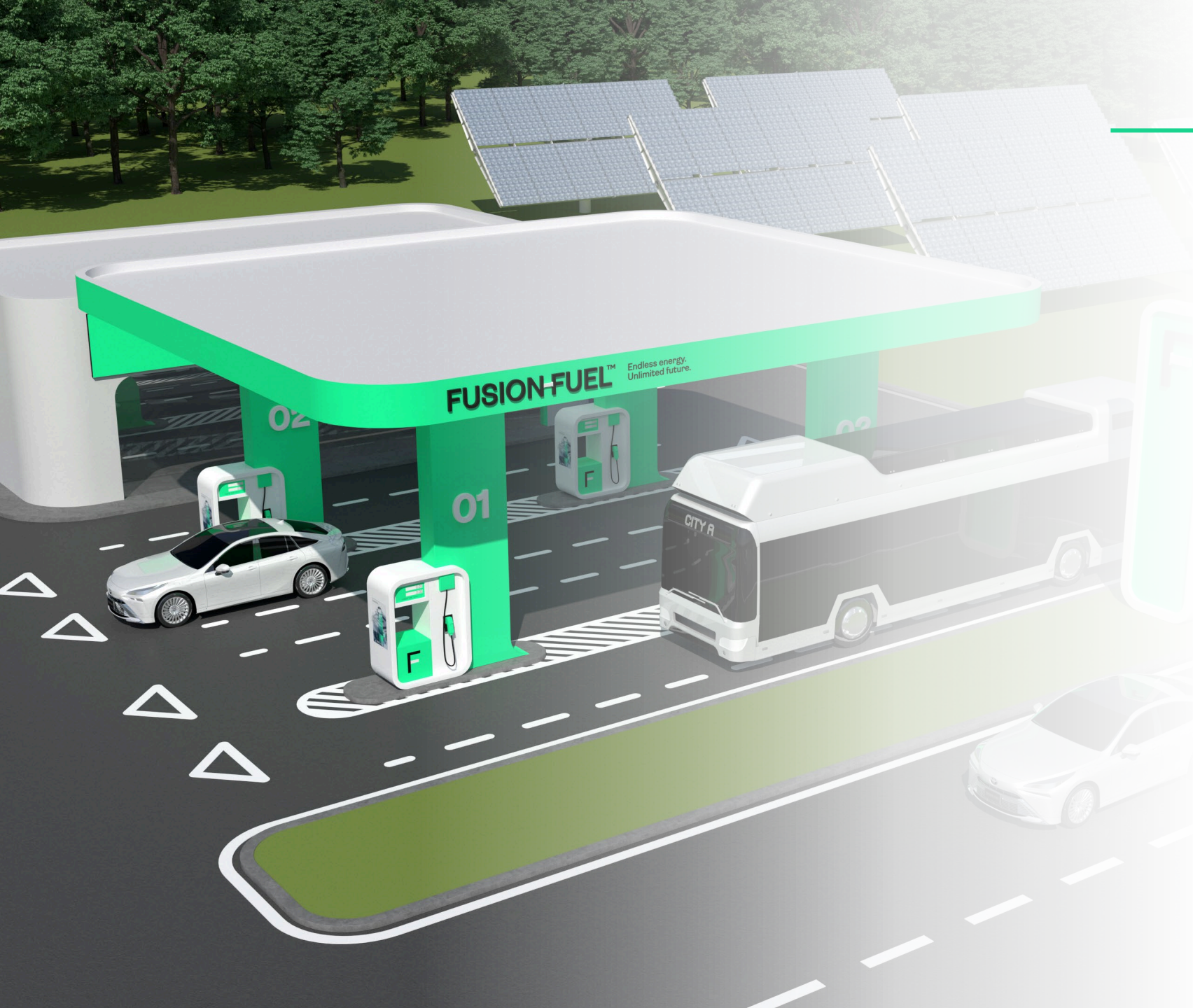
Fusion Fuel has projects in various stages of the permitting process, across both Tech Sales and Project Development. While considerable commercial risk remains, having multiple projects in permitting gives us meaningful head start.

Project	Vertical	Location	Capacity (metric tonnes)	Grants Submitted (in € million)	Grants Awarded (in € million)	Status	ISD
Evora I	Power	Portugal	11	1.5	1.5	Pending Commissioning	1H 2022
GreenGas	Blending	Portugal	30	--	--	Construction	2H 2022
Exolum	Mobility	Spain	40	.75	--	Fully Licensed	2H 2022
HEVO-Sul I	Blending	Portugal	180	4.3	4.3	Permitting	2H 2023
KEME	Industrial	Portugal	77	1.26	1.26	Permitting	1H 2023
PRIO	Mobility	Portugal	136	1.26	1.26	Permitting	2H 2023
HEVO-Sul II	Blending	Portugal	765	9.5m		Permitting	2H 2023
HEVO-Sul III	Blending	Portugal	4,000	49m		Permitting	2H 2024
Hive Energy	Blending	Spain	7,500			Finalizing JV Agreement	1H 2025
HEVO Ammonia	Ammonia	Morocco	31,000			Pre-Feed	2026
			43,747	67.6	8.32		

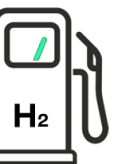
03—

KEY COMMERCIAL PLATFORMS

03 – MOBILITY

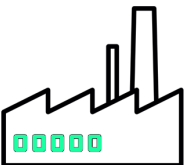


- Projects in pipeline: **20**
- Estimated Capex: **€140m+**
- Grant Requests Submitted: **€65m+**
- Grants Approved: **€15m+**
- GH₂ Production: **1,900+ tpa**



03 – INDUSTRIAL APPLICATIONS & NATURAL GAS BLENDING

- Projects in pipeline: 7
- Estimated Capex: €43m+
- Grant Requests Submitted: €14m+
- Grants Approved: €1.5m+
- GH₂ Production: 740+ tpa



03 – GREEN AMMONIA

- Projects in pipeline: 1
- Estimated Capex: N/A
- Grants: Under negotiation
- GH₂ Production: 32,000+ tpa
- GNH₃ Production: 180,000 tpa



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04 —
*PRODUCTION
& TECH*



04 – INTRODUCING HEVO GEN 2

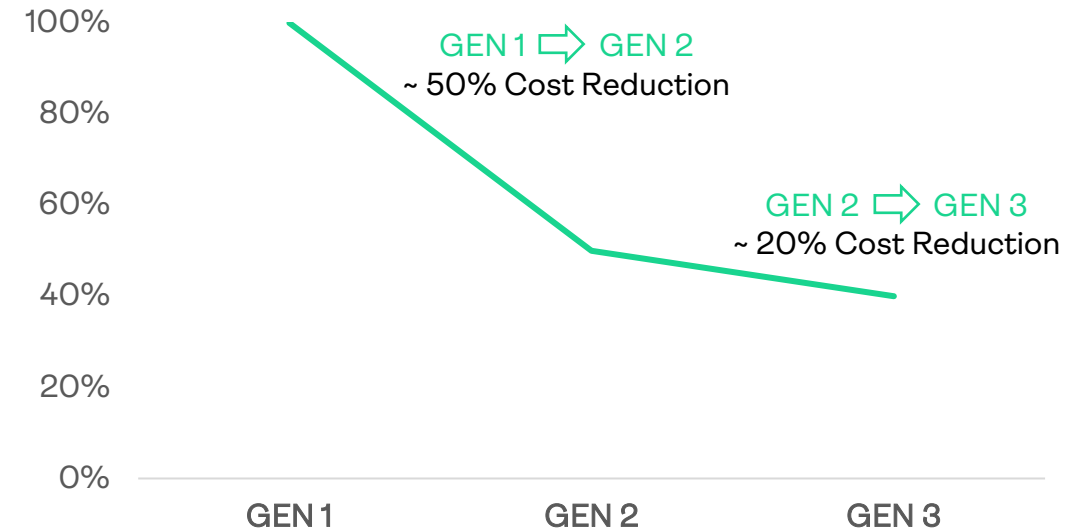
GEN 2 cost reduction is driven by changes to both the HEVO and HEVO-Solar:

- The UPPs have been redesigned to increase active area while simultaneously reducing platinization
- New MEA design, reducing material required while still increasing electrochemical area
- These changes reduce the system cost and complexity



HEVO GEN 2

HEVO Solar Cost Reduction Roadmap



04 – HEVO SOLAR PRODUCTION AT BENAVENTE



2Q 2021

Purchase of factory



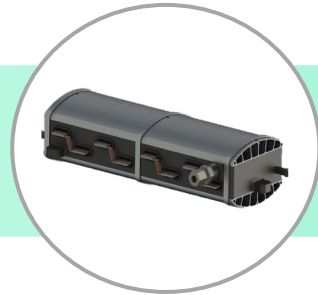
3Q 2021

Start of site renovations



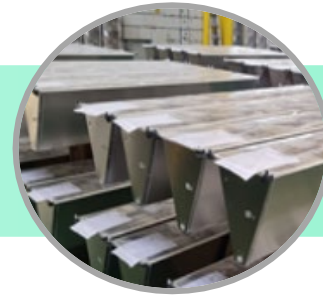
1Q 2022

Completion of phases 1 + 2 of renovations



2Q 2022

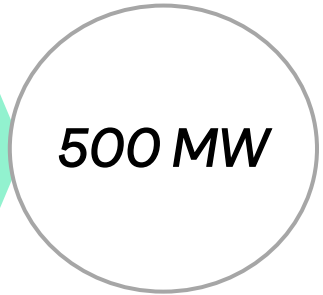
Launch of HEVO production line



2H 2022

Installation of CS line

Continuous increase in manufacturing capacity



500 MW

FY2025

Benavente ramp up complete

- Toshiba Energy Systems and Solutions (“Toshiba ESS”) and Fusion Fuel announced an agreement to study procurement, manufacturing, sales process, and technical collaboration, aimed at expanding sales of electrolyzers in Europe and Australia
- This partnership leverages both companies' complementary strengths and create a unique commercial offering – further establishing both Toshiba and Fusion Fuel as leaders at the forefront of clean hydrogen innovation



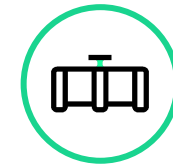
Combined Tech Excellence

Evaluate Toshiba’s novel membrane technology for use in Fusion Fuel’s miniaturized PEM electrolyzer



Commercial Collaboration

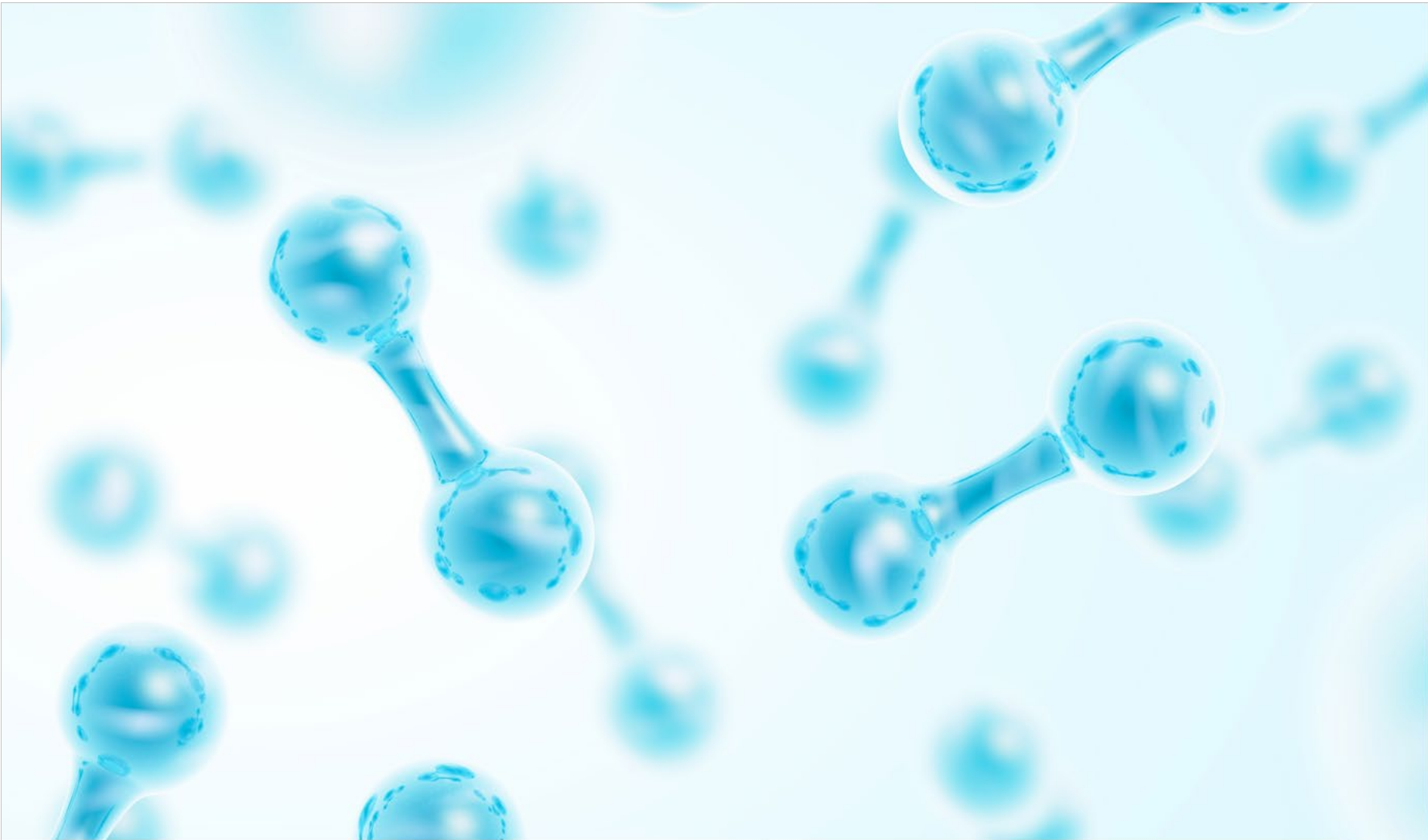
Leverage Toshiba’s extensive local sales channels to accelerate roll-out of Fusion Fuel’s leading technology solutions



R&D Commitment

Continue pushing the envelope with the next generation of cutting-edge green hydrogen technology

05 —
TEAM

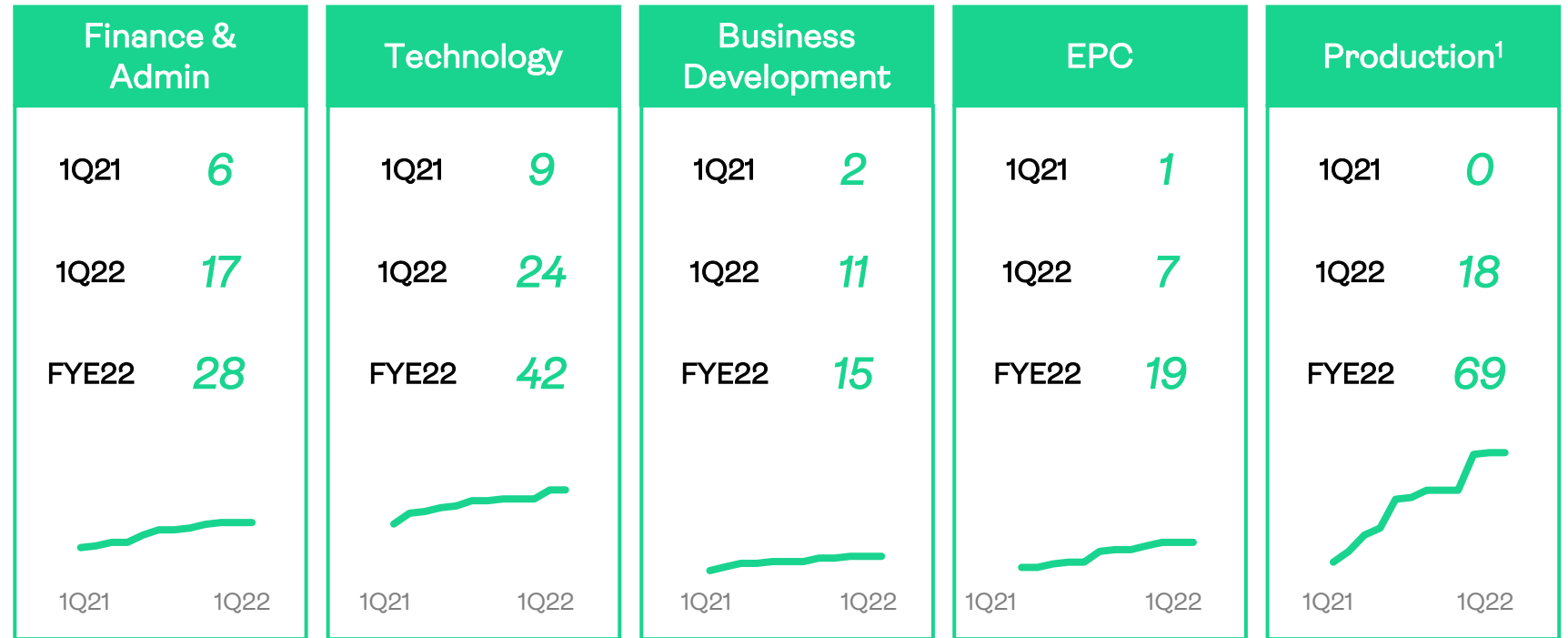


05 – HEADCOUNT REPORT

The Fusion Fuel team has grown significantly year-on-year.

Targeting over **150** full-time employees by the end of 2022; most of the growth driven by the launch of our Benavente factory.

The team includes significant experience in gas management, hydrogen infrastructure, as well as research, engineering and production specialists – all aimed at keeping us at the forefront of innovation.



¹ Current Production headcount does not include 20 temporary employees deployed to HEVO production line

06—
2022 MILESTONES



Our five key milestones for 2022:

1 –

PRODUCTION

- Full go-live of Benavente facility
- Secure grants and financing for Benavente facility

2 –

HPA, SALES & GRANTS

- Fill 2022 and 2023 pipeline with confirmed orders
- Secure grants for company-owned plants and for third-party projects

3 –

TECH DEVELOPMENT

- Launch next gens of HEVO and HEVO-Solar
- Introduce O₂ Capture System
- Continue product innovation and new product development

4 –

PROJECT DEVELOPMENT

- Finalize delivery of approved projects in Portugal and Spain
- Kick-off development of projects that will be in construction in 2022 and 2023
- Secure required licenses for existing project portfolio

5 –

SAFETY

- Promote health & safety as a core pillar of Firm's culture
- Implement robust safety protocols
- Zero safety incidents Company-wide

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