NEXT GENERATION FUEL CELL TECHNOLOGY

Investor Presentation October 2020



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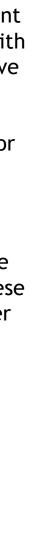
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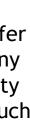
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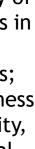
In connection with the proposed business combination between AMCI and Advent and related transactions, AMCI will file preliminary and definitive proxy statements and a registration statement on Form S-4 with respect to the proposed business combination and related matters with the SEC, and will mail a definitive proxy statement and other relevant documents to its stockholders. Investors and security holders of AMCI are advised to read, when available, the preliminary proxy statement and registration statement, and amendments thereto, and the definitive proxy statement in connection with AMCI's solicitation of proxies for its stockholders' meeting to be held to approve the proposed business combination and related matters and the related registration statement because the proxy statements and registration statement will contain important information about the proposed business combination and related transactions and the parties to such arrangements. The definitive proxy statement will be mailed to stockholders of AMCI as of a record date to be established for voting on the proposed business combination and related matters. Stockholders will also be able to obtain copies of the proxy statement, without charge, once available, at the SEC's website at www.sec.gov or by directing a request to: Investor Relations, AMCI Acquisition Corp., 975 Georges Station Road, Suite 900, Greensburg, PA 15601.

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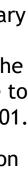














Transaction Summary

Advent Technologies, Inc.



Vasilis Gregoriou

Founder & CEO



Emory De Castro

СТО



Nick Stamp CFO

AMCI Acquisition Corp.

Bill Hunter

CEO & President

AMCI & Advent Technologies - An ideal combination to unlock the Hydrogen Economy

Transaction Structure

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- immediate market opportunities
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Valuation

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(1) TEV based on equity value assuming \$10/share, and \$1.3mm of cash as of 6/30/2020, \$121 million of new cash post-close and no debt. (2) Refer to page 36 for peer analysis. (3) Utilizes 2023E multiple for peers when 2024E is not available. (4) Refer to page 35 for additional assumptions.

AMCI Acquisition Corp. ("AMCI") has proposed to enter into a business combination with Advent Technologies, Inc. ("Advent"), an innovation driven fuel cell technology company that is unlocking the Hydrogen Economy

AMCI (NASDAQ:AMCI) is a publicly listed special purpose acquisition company with ~\$153 million of cash held

Advent and AMCI are combining to advance the development and manufacturing of Advent's platform technology that is based on high-temperature proton exchange membranes (HT-PEM)

The transaction will fully fund the next phase of Advent's expansion efforts to respond to significant and

Advent's existing shareholders are rolling 100% of their equity

It is anticipated that the post-closing company will retain the Advent name and be listed on Nasdaq

The transaction is expected to close in Q4 2020

Transaction implies pro forma enterprise value of \$358 million⁽¹⁾

2.9x 2024E Revenue projection of \$122.8 million, compared to peer average of $18.4x^{(2,3)}$

15.0x 2024E EBITDA projection of 23.8 million, compared to peer average of $97.8x^{(2,3)}$

Existing Advent shareholders will receive 52% of the pro forma equity⁽⁴⁾

Pro forma, Advent will have ~\$122 million of cash to help realize production ramp up

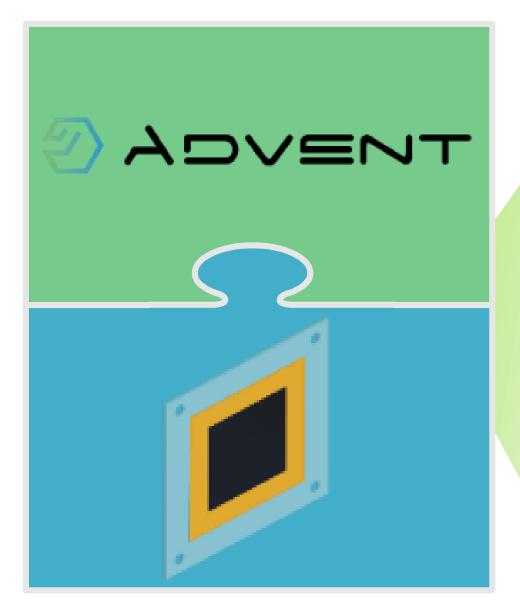






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Investment Highlights





Low cost, fuel-flexible and resilient fuel cell technology - solving the need for expensive hydrogen infrastructure

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Developing and manufacturing the critical components for high-growth new energy markets, including transportation, off-grid, aviation and the Hydrogen Economy

4

Solving the range and recharge mobility problems with Li-ion batteries given greater energy storage capability



Proven, scalable business model that delivers consistent and recurring revenue, with a ~\$100m revenue opportunity per 1GW of demand



Platform technology provides critical performance benefits for a wide range of end markets, with a total estimated market size of more than 850GW by 2040



Experienced management team delivering breakthrough technology in partnership with world class research centers



Sources: Global Data, Bloomberg New Energy Finance.

Advent is the missing puzzle piece to unlocking the Hydrogen Economy with low-cost energy solutions







1. Company Overview



We Are Advent



- Backed by 50+ international technology and process patents
- Fuel-flexible, lower cost, longer life works anywhere
- Supported by industry leading partners

Proven Product Ready for Market Adoption

- Advent's MEA products are already being used and tested for use by a number of top tier customers
- Heavy truck users beginning adoption of hydrogen fuel cells to extend EV range
- Roll-to-roll manufacturing process provides for scalable, high margin business



Timing is Now

- Ramping up of EV automotive sector is inflection point for demand of fuel cells
- Success of Tesla and others provides high visibility for clean tech
- Advent's team is highly skilled in production ramp-up and ready to execute on the growth plan of the company



Pioneering, critical technology for the Hydrogen Economy

Our Markets

- Fuel cells for EV automotive, aviation and stationary / offgrid applications
- ② Energy Storage
- ⊘ IoT Sensors
- Hydrogen Production



Our Partners

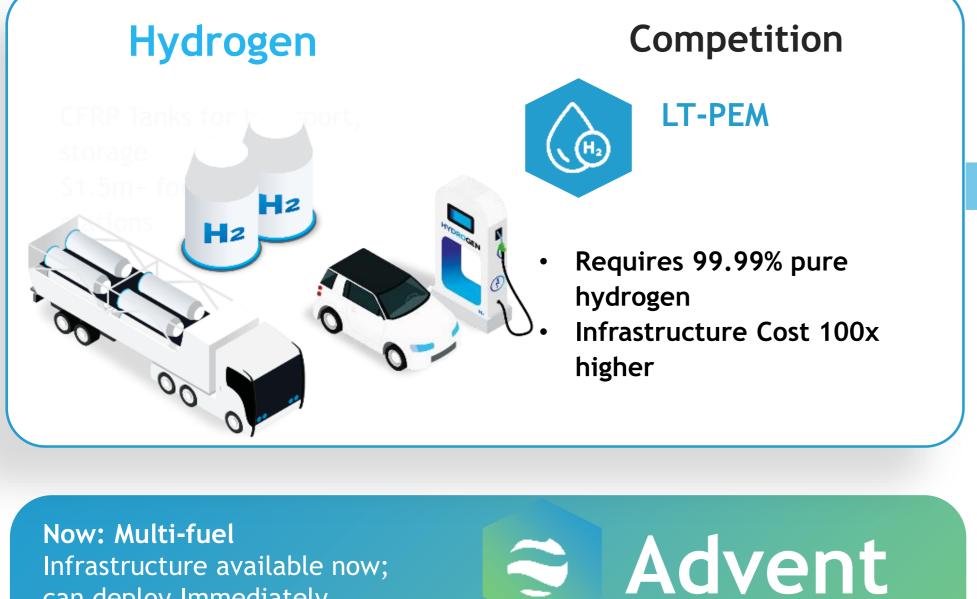








Advent Fuel Cell is Flexible Broad market, low infrastructure cost



can deploy Immediately

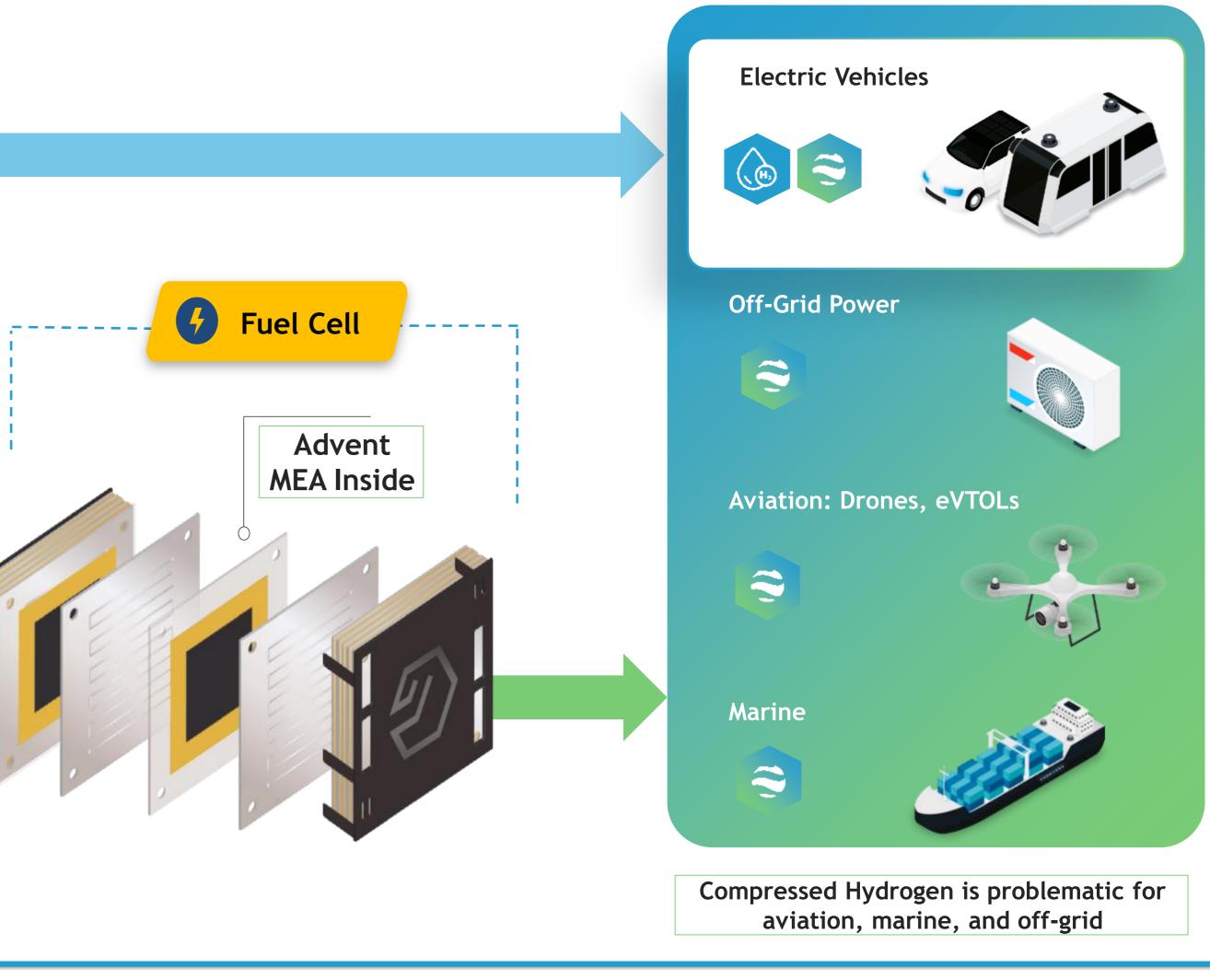






Hydrogen, (green) methanol, natural gas, biofuels, ammonia

Advent's fuel-flexible capabilities solve the hydrogen infrastructure problem opening an immediate market opportunity







MEA Application in Transportation Advent Solves the Range and Recharge Problems

Fuel Reformer

On-board reforming of any fuel to low-quality hydrogen

Fuel Tank

Renewable fuels, biofuels, natural gas, methanol, DME, or hydrogen

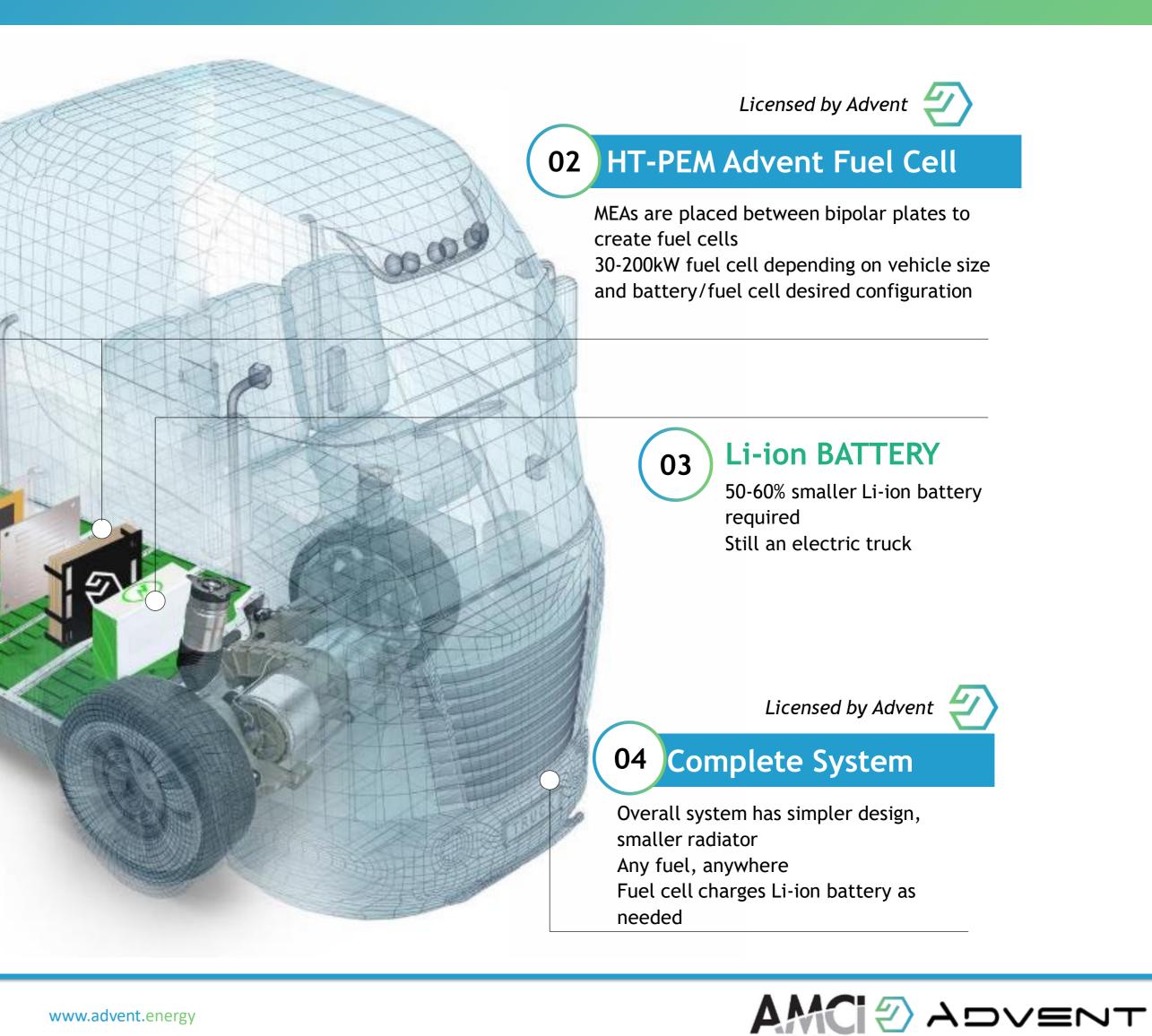
MEAs Manufactured by Advent

Advent HT-PEM & MEAs 01

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Operate at high-temperatures, (160-200°C) Membrane & Electrode Assembly is the heart of the fuel cell It defines performance, weight, lifetime, operating cost

Advent provides consumers with the same convenience as a conventional vehicle without the pollution







Solving the Hydrogen Infrastructure Problem



Sources: Joule, Management Estimates. (1) Estimated upfront infrastructure costs, assuming 200 cars per 1000 people of each type. Methanol and biofuels can use existing infrastructure (with minor modifications) built for incumbent liquid fuels. www.advent.energy

Advent's fuel-flexible capabilities allow for significantly reduced infrastructure requirements and provides energy solutions for billions of people in the developing-world





What We Do **Our Products**

Develop, Manufacture & Sell



High-Temp **PEM Membranes**

- Next generation electricity conducting plastics that can operate at 160+°C
- Significantly enhances capabilities and performance of fuel cells and other clean technology systems



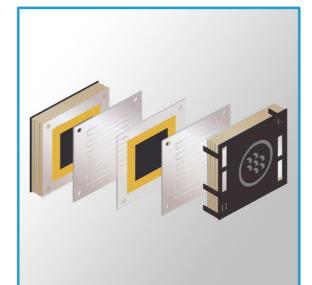
Membrane & Electrode Assembly ("MEA")

- ⊘ MEA is the "heart of the fuel cell"
- Analogous to Li-ion cell for the battery industry

Advent's technology is fuel-flexible, lightweight and resilient

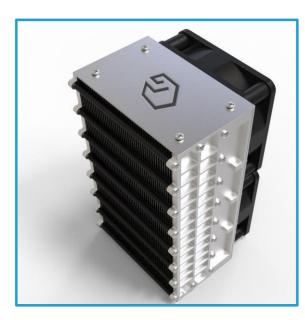
Next Generation fuel cell technology that significantly improves the economics of hydrogen power





High-Temp Fuel Cell

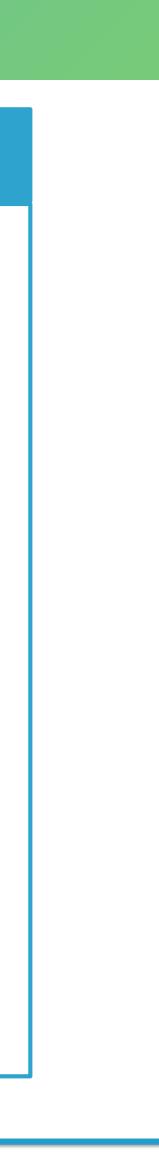
- Fuel-flexible fuel cells that
 significantly reduce need for hydrogen infrastructure
- ② Enter into joint development programs with partners
- Intend to scale-up production for mobility (auto, aviation) and stationary (off-grid, portable, security, charging station) markets



Complete Systems

- Leverage MEA technology with
 a matched fuel cell and license to system integrators, Tier 1s and OEMs
- IP in design, cooling, testing and optimization



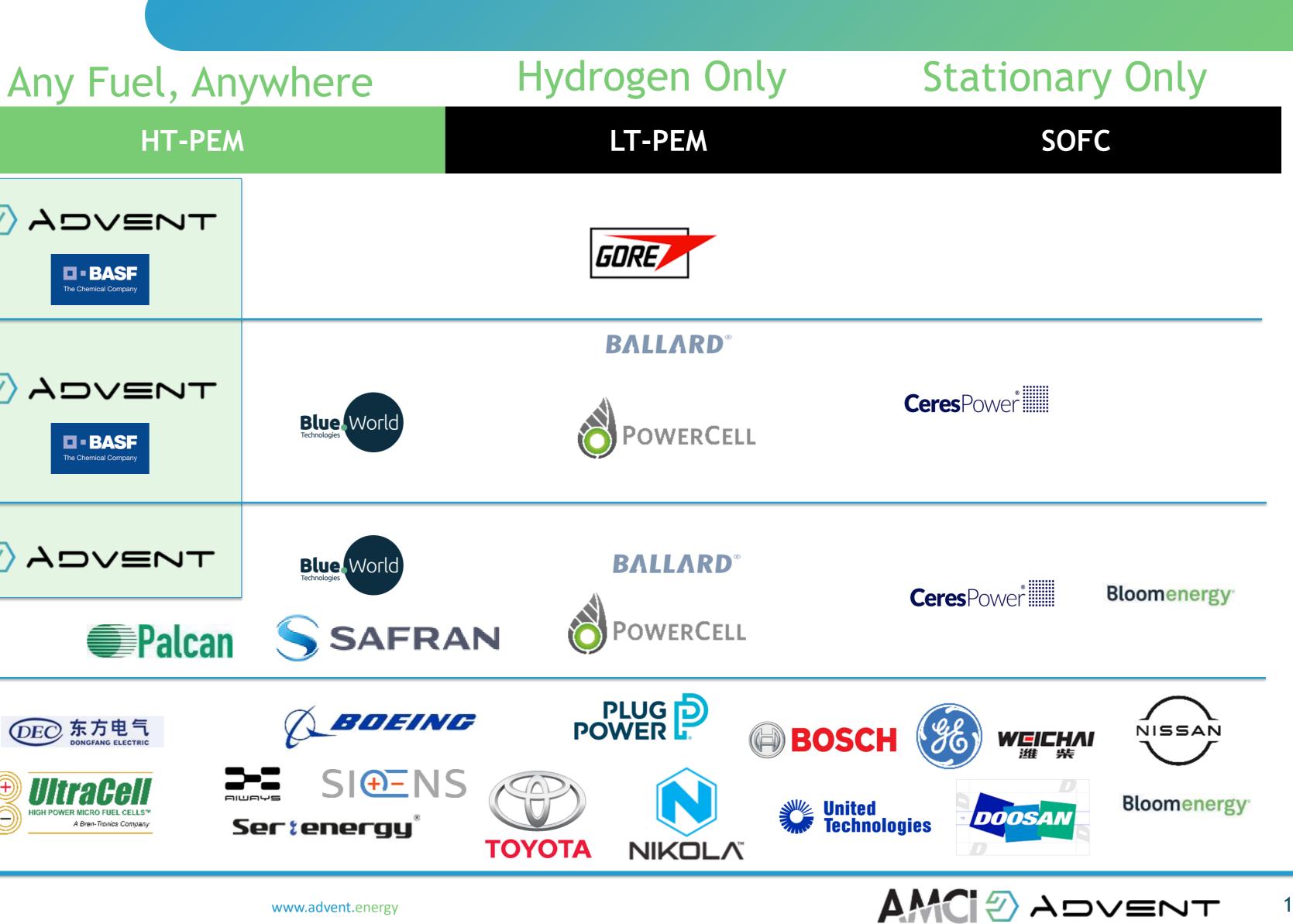


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Unique Market Position in the Fuel Cell Value Chain

% of fuel **HT-PEM** cell cost Membrane 3% \checkmark Advent **BASF** he Chemical Company MEA manufacture & $\langle \nabla \rangle$ ADVENT 25%_____ assembly The Chemical Company 30% Fuel cell technology \forall Advent Engineering/Licensing Palcan DEC 东方电气 Fuel cell OEMs, and 100% System Manufacturing **UltraCell** HIGH POWER MICRO FUEL CELLS¹ A Bren-Tronics Company

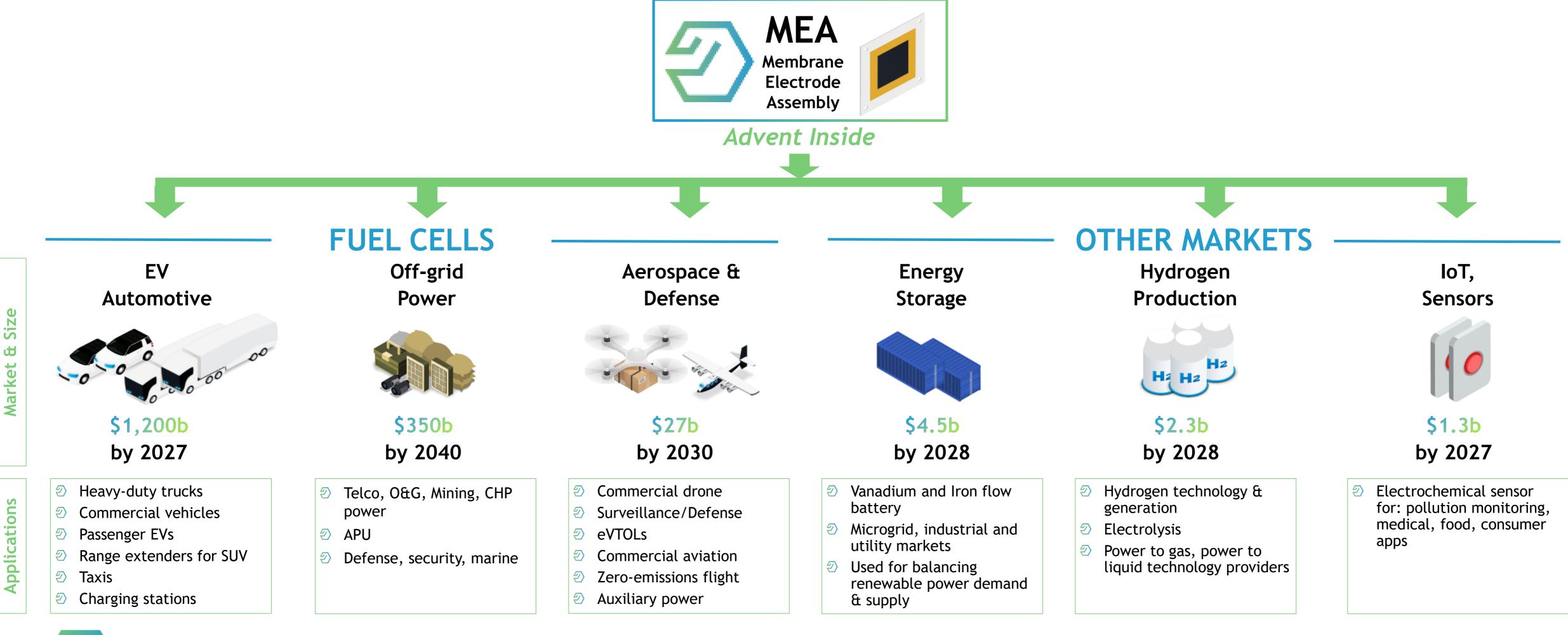
Only vertically-integrated supplier of HT-PEMs to fuel cell **OEMs and system manufacturers**





Advent MEA Market Changing Technology



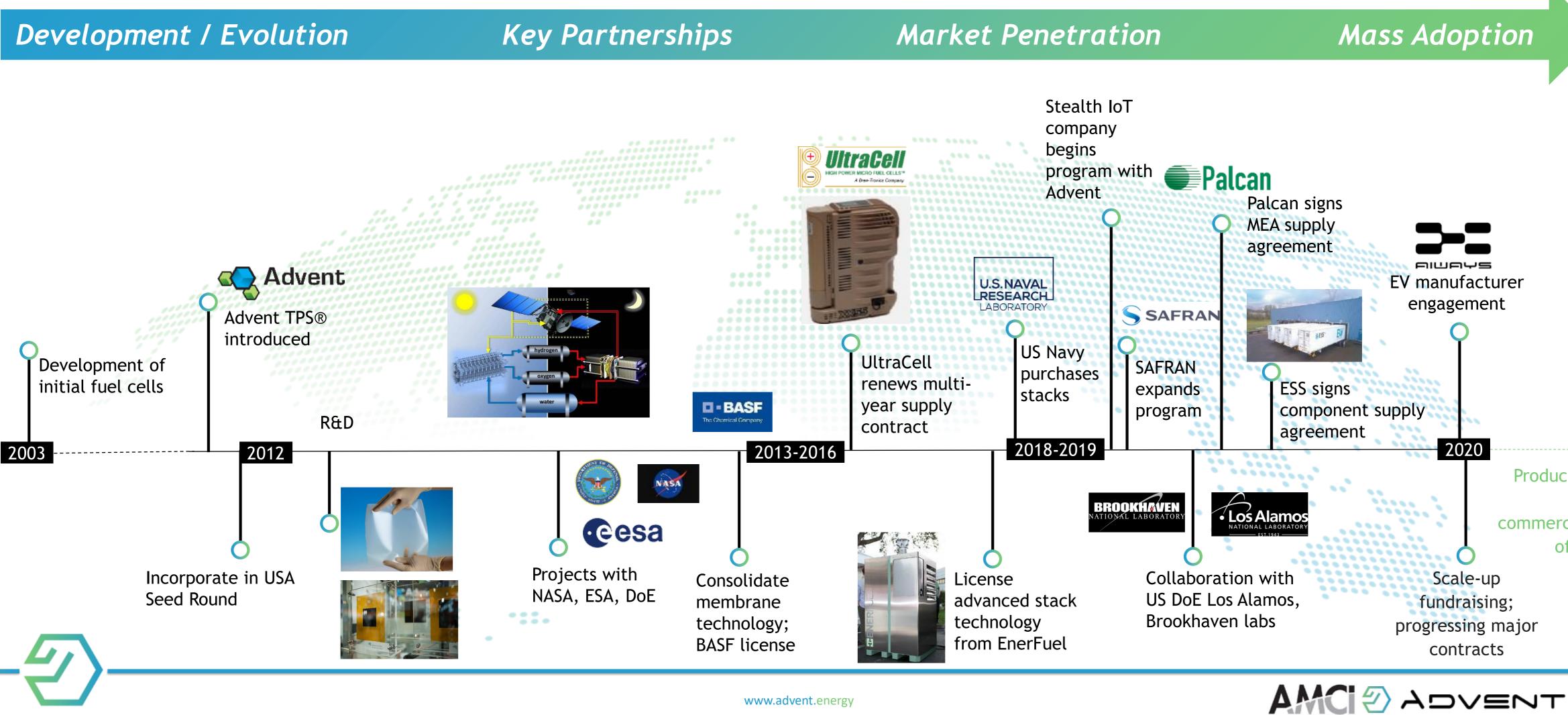


Advent's MEAs are the "heart" of the fuel cell & all electrochemistry applications - analogous to Li-ion cell for battery packs





Evolution & Innovation



Consolidating 50+ international patents and \$500m+ of technology investments by partners, predecessors and strategic licensing & acquisition agreements









World-Class Customer Base



Portable Power

- California-based developer of fuel-flexible fuel cells for mobile, portable power solutions
- Supplier to the U.S., U.K. and other armies
- ⊘ Advent supplies MEAs







Off-Grid

- ⊘ Award-winning Munich-based fuel cell manufacturer. Recently secured EU Horizon 2020 funding approval
- ⊘ Sigens has developed the Ecoport 800 HT-PEM fuel cell for off-grid applications using methanol as the hydrogen carrier
- 2 Advent supplies MEAs





Energy Storage

- ⊘ Oregon iron flow battery for off-grid and utility systems
- ⊘ Backed by established cleantech investors including Breakthrough Energy & BASF Ventures
- Advent supplies component of ESS's iron flow battery

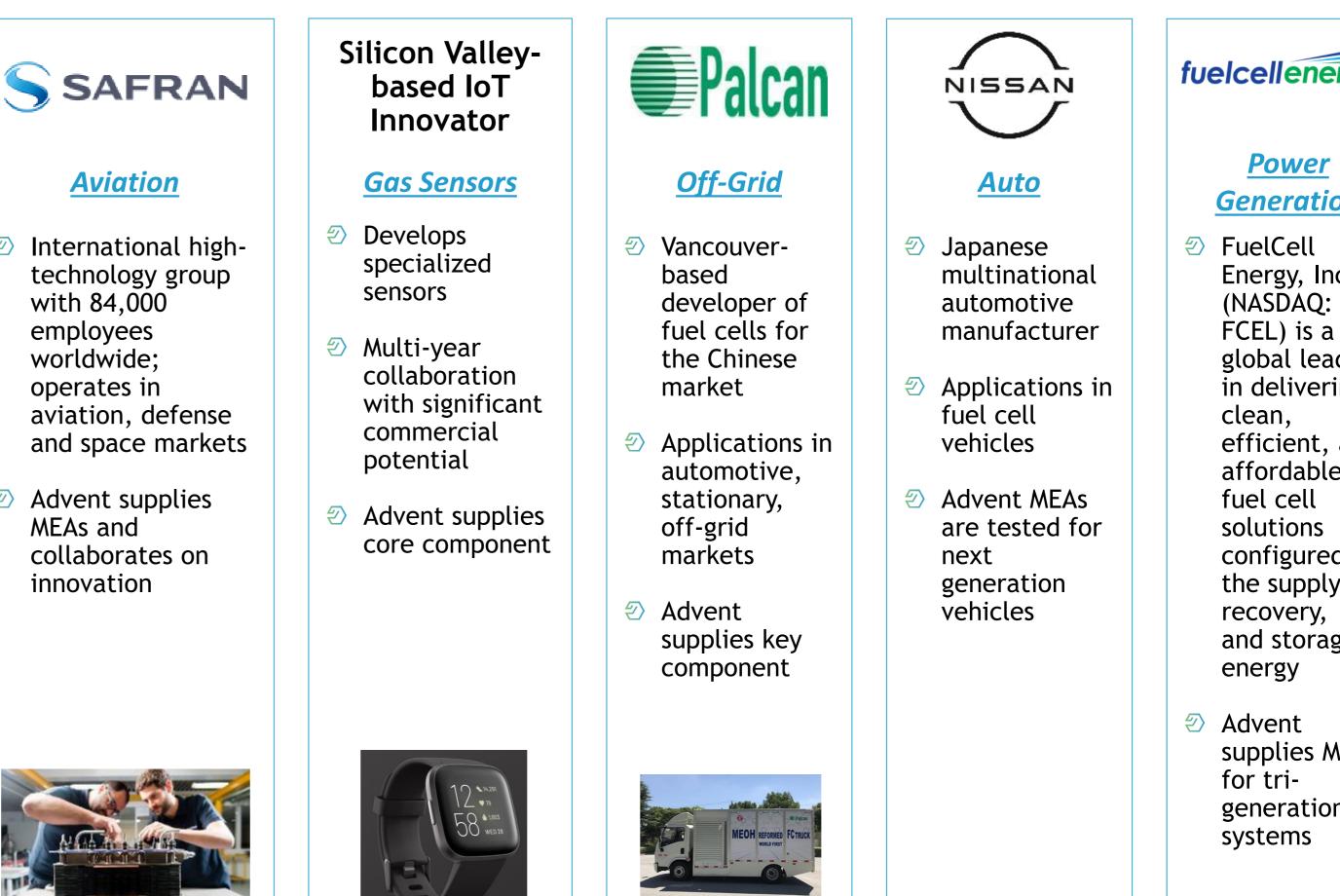




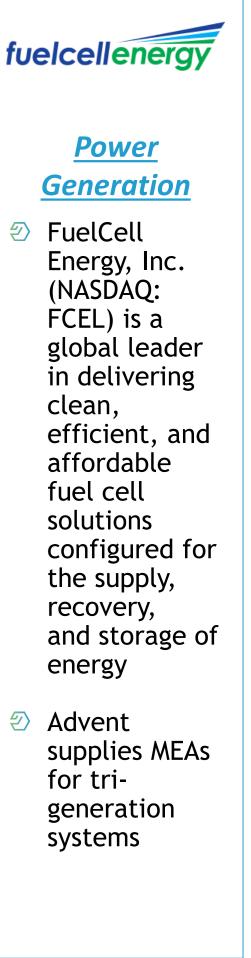
- Ð with 84,000 employees worldwide; operates in
- Ð MEAs and innovation



Proven technology with products already in market







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Fuel Cell Market Opportunity

Advent revenue expected to be ~\$100m per GW

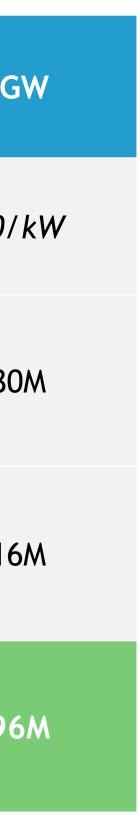


Fuel cells & hydrogen production can be a \$50 billion market by 2030 driven by well-established global policy support

	00 00	Customer's Power Requirements	1 G
		Advent Target Cost per kW (2025)	\$80/
MMERCIAL ORTABLE POWER	HEAVY-DUTY TRUCK MUNICIPAL BUS	MEA Sales Revenue	\$80
)kW	100kW+	Licensing Fees ⁽²⁾	\$16
W(1)	40-100GW	Total Revenue to Advent Per GW	\$96









Industry Leading Access and Technology

DoE, L'Innovator Program: Partner with top US-labs for next-gen development

Began partnership with Los Alamos L'Innovator program in 2019

UltraCell:

Licensing agreement since 2016 with leading provider of portable, lightweight fuel cells

In-house Expertise: Scale-up expertise - working for and with top chemistry leaders

Working with BASF for 7+ years



Strategic partnerships accelerate product development and reduce customers' launch timeframes



































Fuel Cell Technology Evolution



Least Benefit to End User

Most Benefit to End User

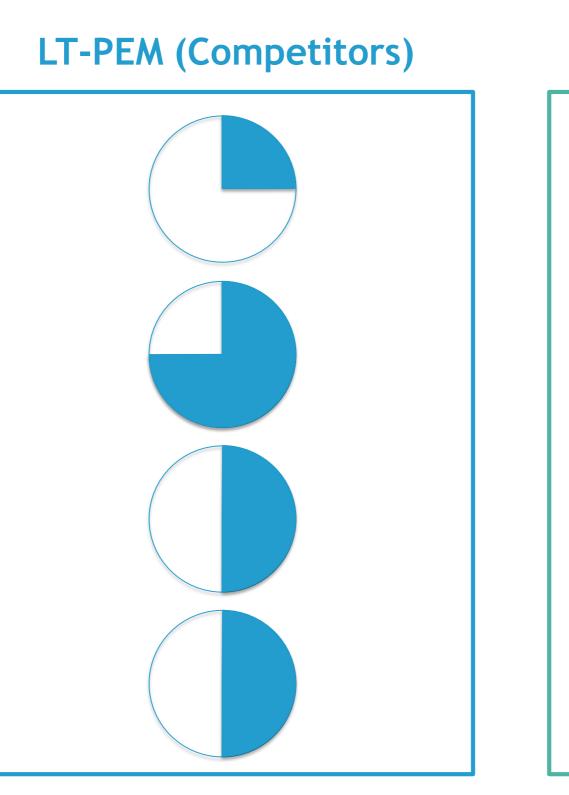
Fuel-Flexibility

(Wide Market Opportunity)

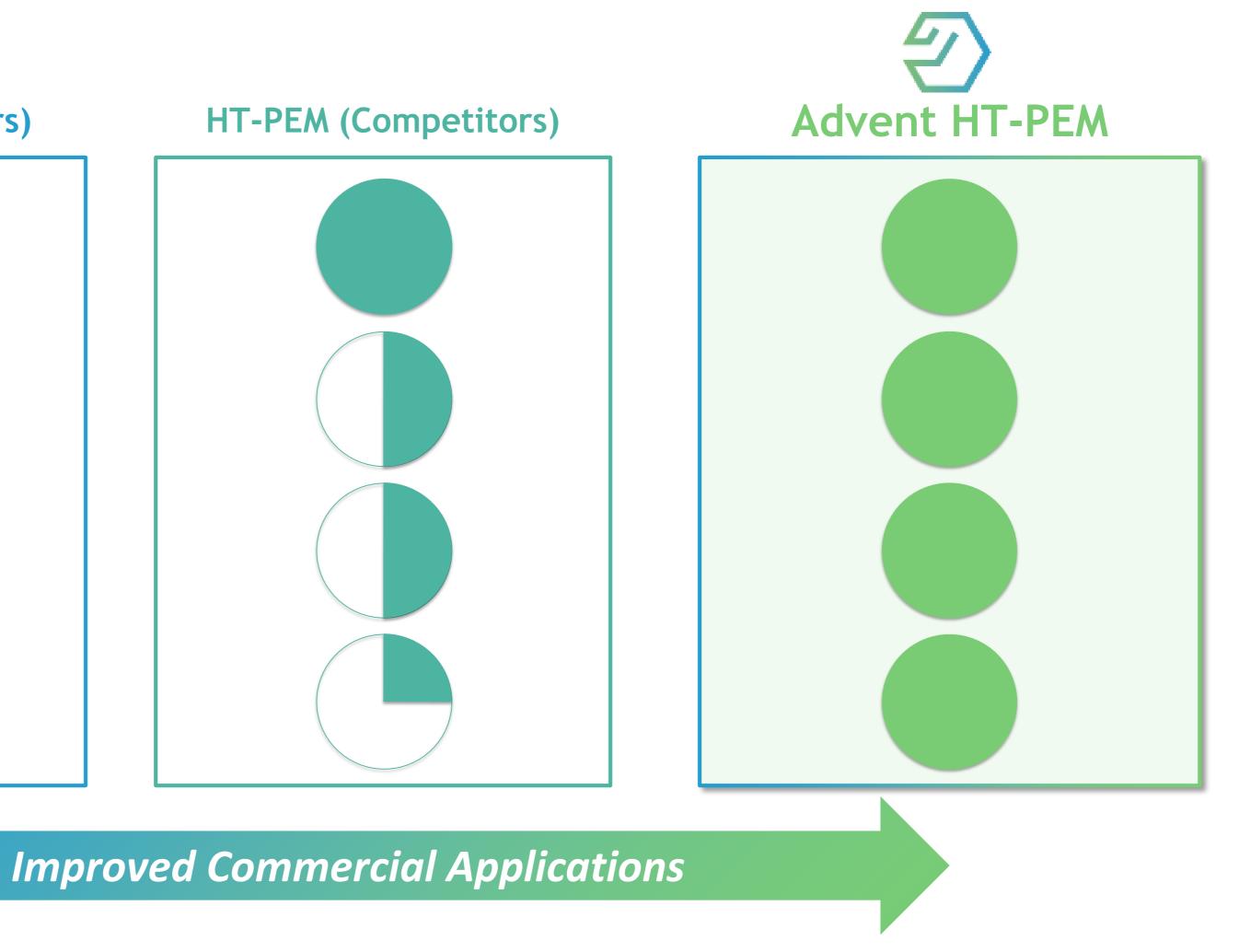
Fit for Mobility (Power Density, Heat Management, System Simplicity)

Resilience, Durability, Lifetime

Affordability (Total Cost of Ownership)



Advent's technology is the right choice for mobility and affordable power anywhere







Leadership & Expertise



Bill Hunter CEO, AMCI

- 25+ years of financial services experience, with a focus on the industrial and natural resources sectors
- Long track record in battery metals-related investments, including current Board member of American Battery Technology Corp.
- MBA from DePaul University





NOMURA



Vasilis Gregoriou Founder & CEO

- 30+ years of operational and strategy experience in the US and Europe
- World-renowned renewable energy expert
- Extensive experience in product development and company management
- Ph.D. Physical Chemistry, Duke
- MBA, Northeastern





Emory De Castro СТО

- 35+ years of technology commercialization, 25+ years in fuel cells
- Volume manufacturing expert
- DOE Manufacturing Award
- BASF Fuel Cell Inc.
- PEMEAS Inc., and De Nora N.A.
- E-TEK
- Ph.D. Cincinnati
- B.S. Duke





Proven track-record of technological development and commercialization









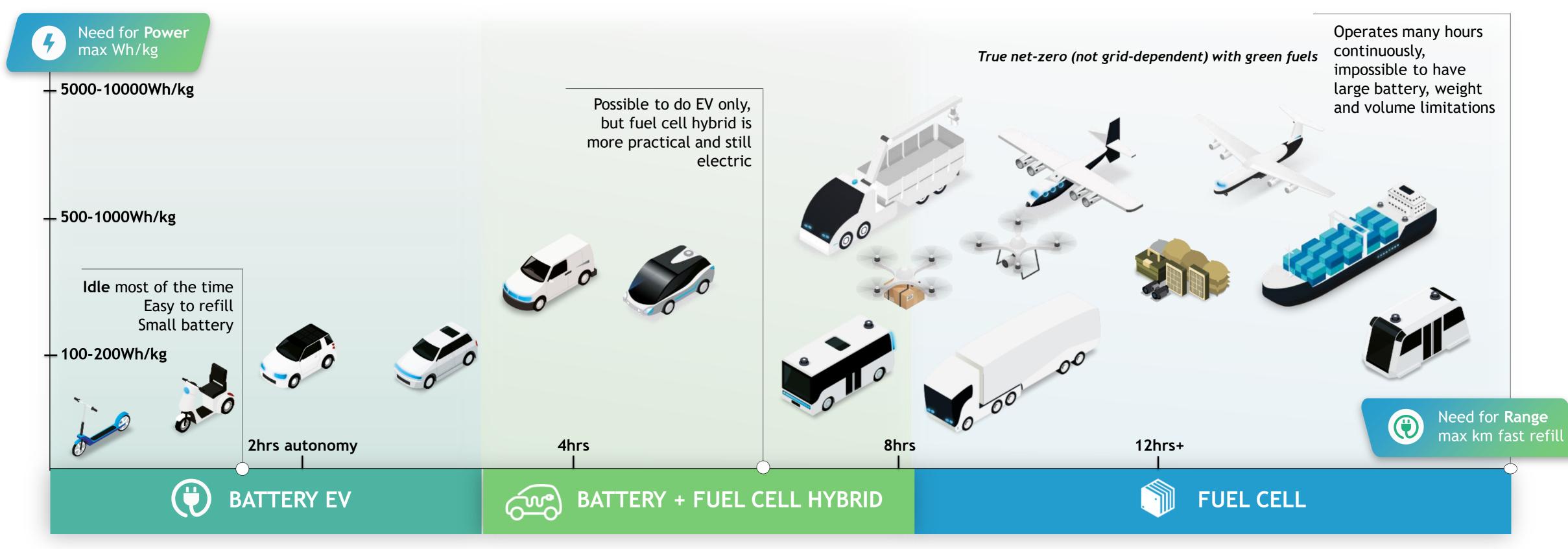
AMCI 2 ADVENT

2. Next Generation Fuel Cell





Next Generation Technology **Accelerates Clean Energy Transition**



Fuel cells solve for issues that cannot be solved by batteries alone









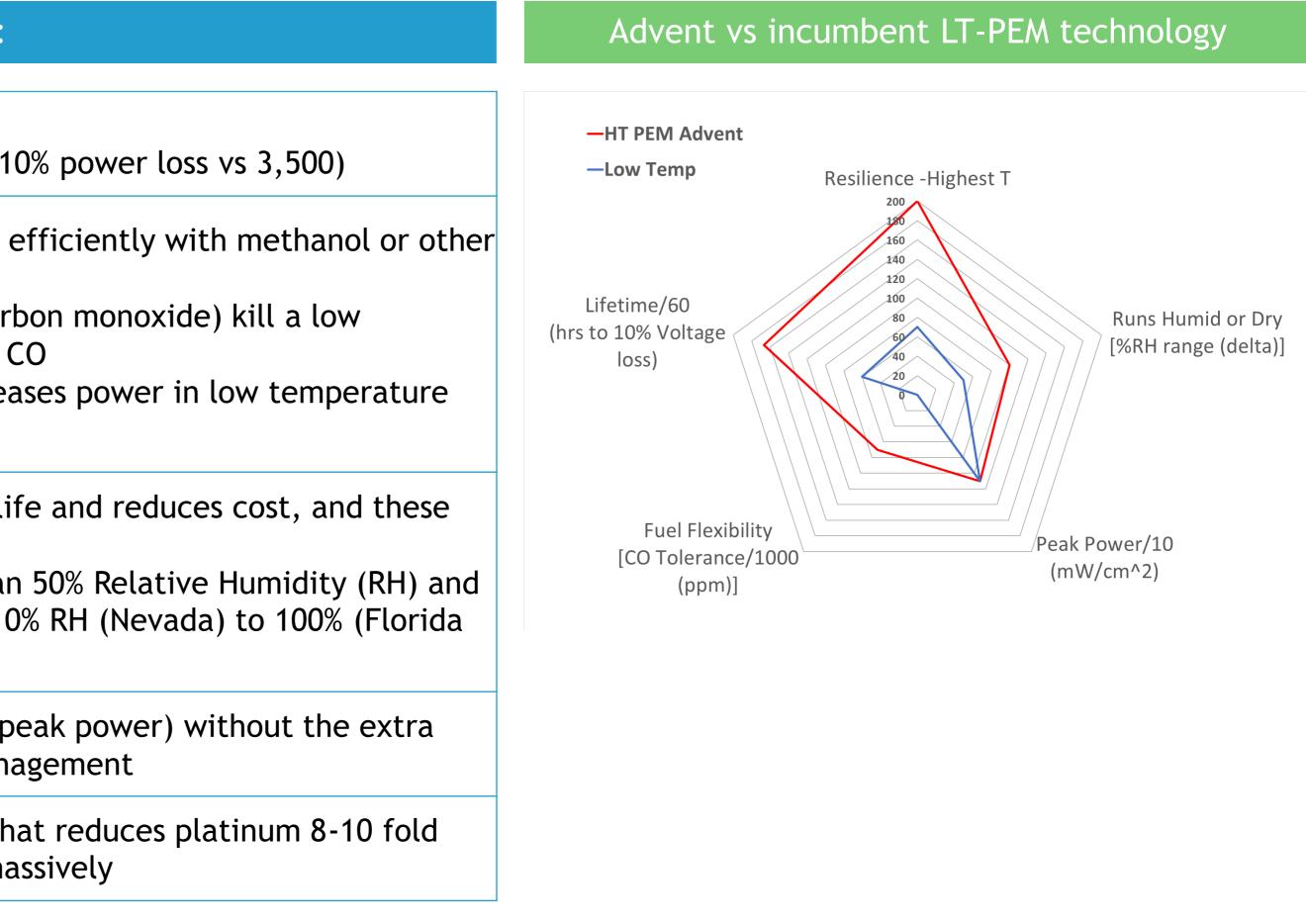
Advent Fuel Cells Outperform Competition

Any Fuel, Anywhere

Advent technology allows fuel cells to be:
 Degradation is still a problem for fuel cells Advent can more than triple lifetime (~10,000 hrs to 10)
 Hydrogen infrastructure can be delivered quickly and endotydrogen sources such as biogas Impurities in regular hydrogen such as 10 ppm CO (carl temperature fuel cell - our materials withstand > 2 % C The same holds true for air purity; air pollution decreation fuel cells
 Reducing humidity and temperature issues increases life units work anywhere in the world Low temperature cannot run hot and dry - no less than not hotter than 70 °C while our technology runs from 0 in the summer)
 At least as powerful as current tech (1,100 mW/cm2 powerful and volume of complex cooling and water mana
 Roll-to-roll processing mated to catalyst technology th Simpler system design and fuel flexibility drop TCO material



Bringing down cost/kW - Advent's fuel cell technology enables longer-lasting, lower cost, more robust and more powerful fuel cells



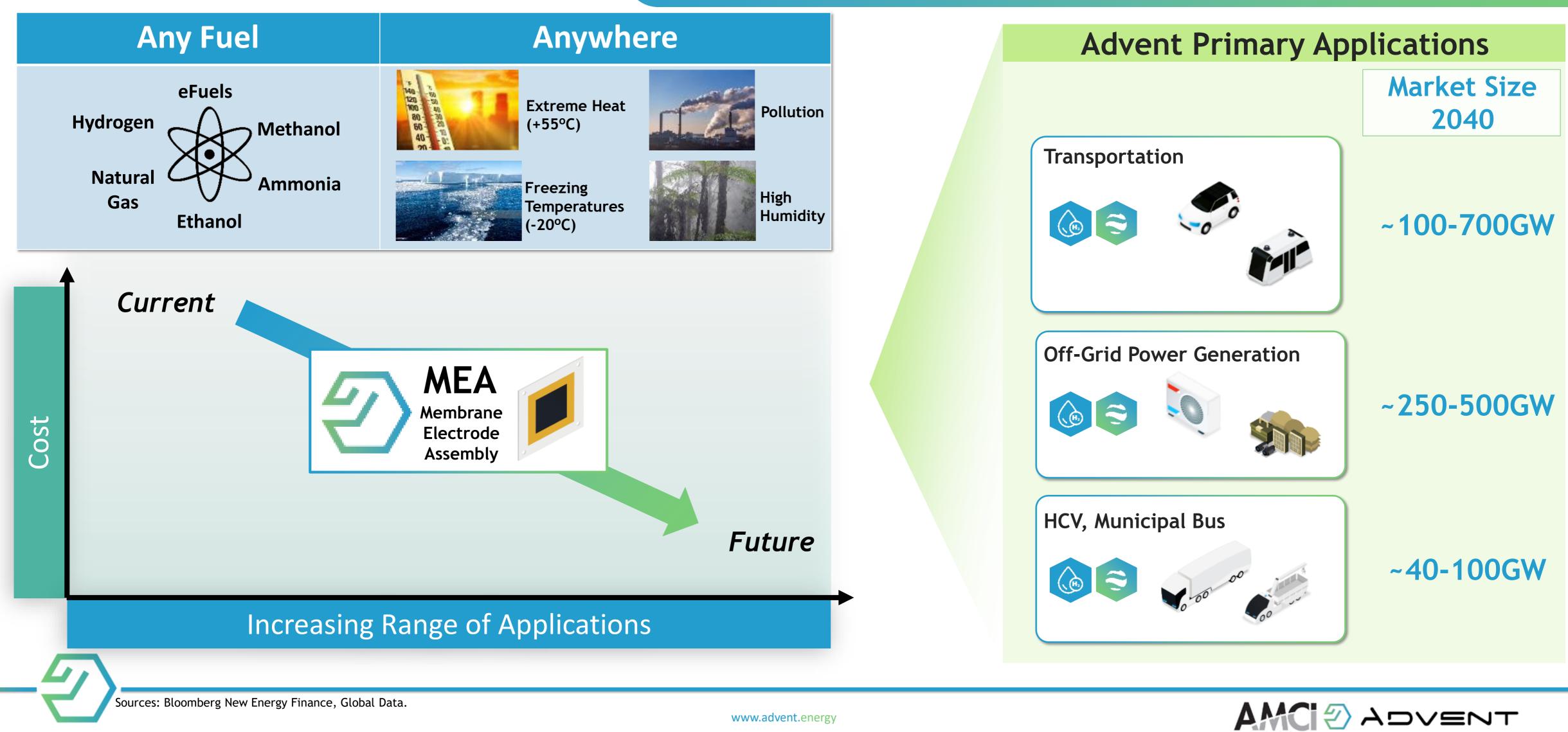








Enabling the Hydrogen Economy

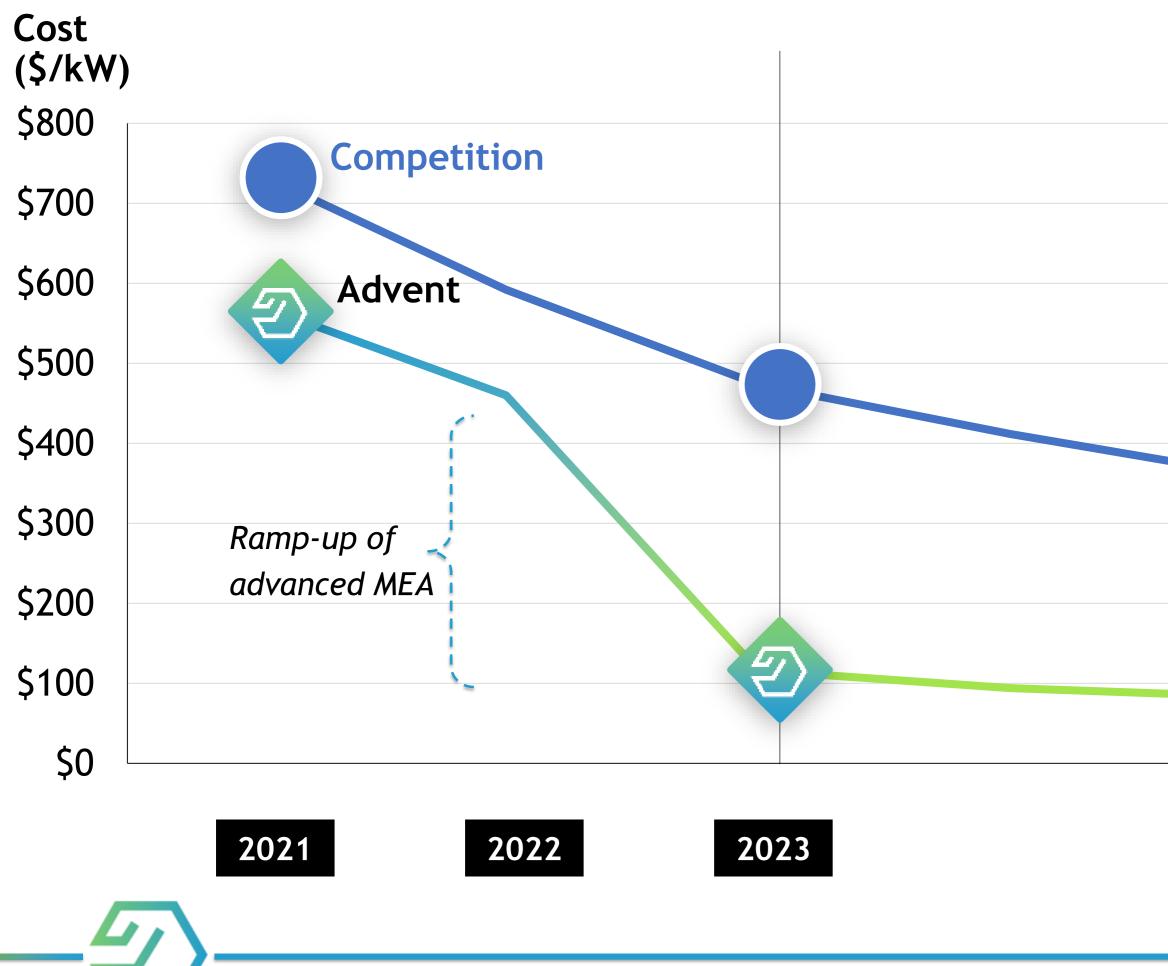


For every GW of market size, Advent has the potential to earn an estimated \$100 million by driving down costs and improving capabilities



Low Cost Drives Adoption

Advent's Patented Technology Provides for Significant Advantage Relative



Source: Management estimates.

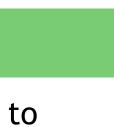
Advent is winning the race to be the low cost industry provider able to take market share from battery and ICE vehicles

e to Peers	Cost Reduction through Innovation
	Substantial cost savings due to automation of assembly line a advanced MEA product development projects
	Automation of assembly line provides 3x efficiency improvem in direct labor costs
	Advent's advanced MEA will provide the same power output v ~25% of the raw materials
	Cost Reduction by Scale-up
	Substantial unit cost savings as MEA production builds up due raw material purchasing efficiency & reduced processing cost
Turne	Procurement, labor and processing costs all highly competitive due to location of manufacturing
Target: \$80/kw	



2025





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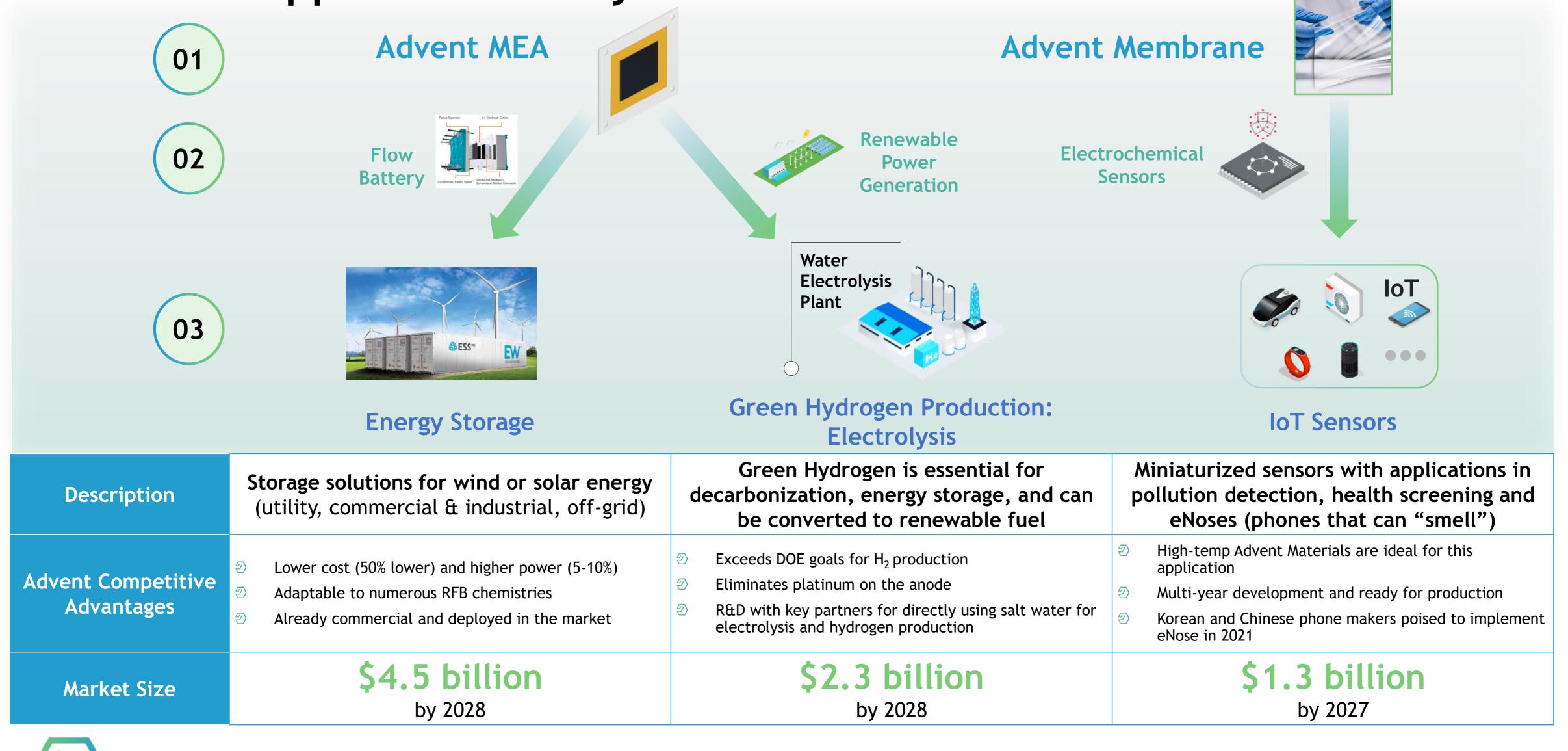
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3. Beyond Fuel Cells



Vast Market Opportunities Beyond Fuel Cells



Sources: IDTechEx, Allied Market Research.



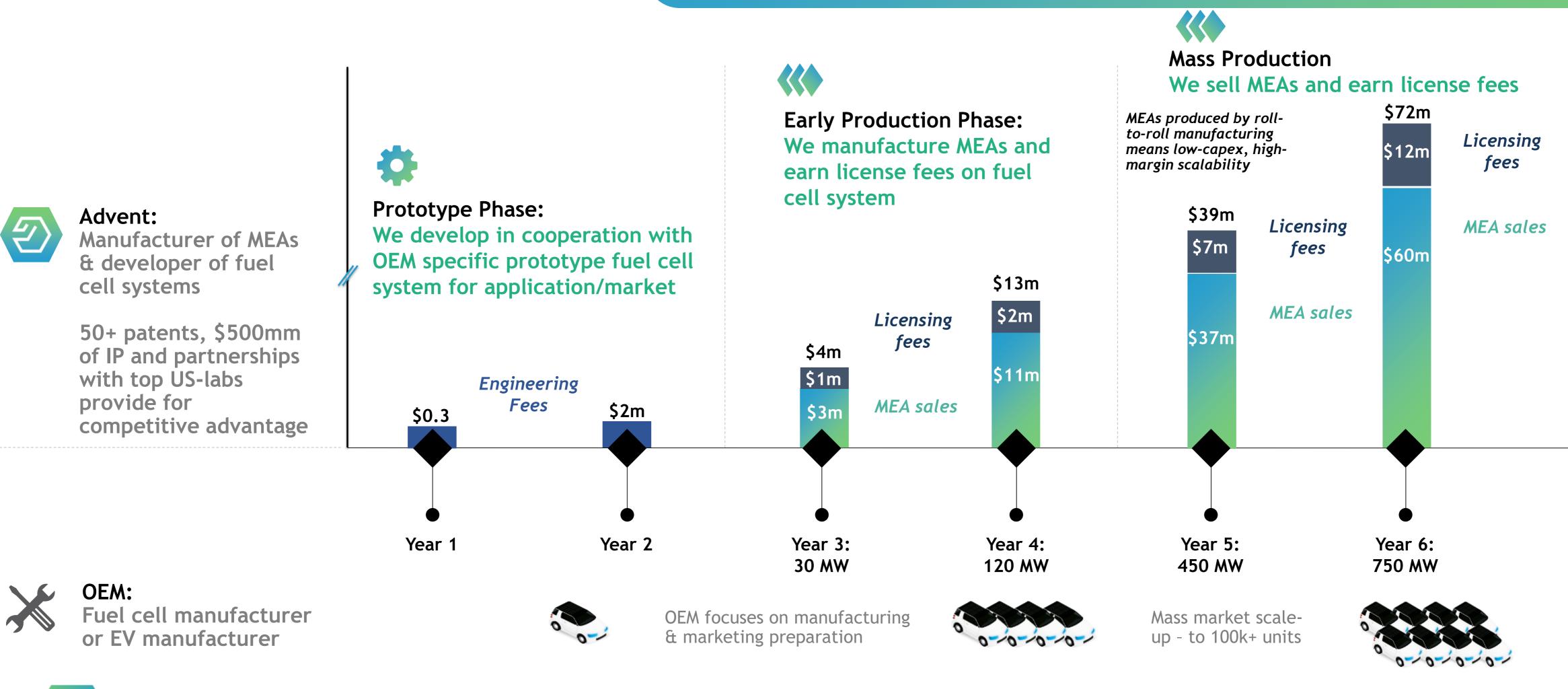


4. Business Plan





Business Model Illustrative Revenue from Single OEM



Advent's business model provides strong customer traction and high revenue visibility







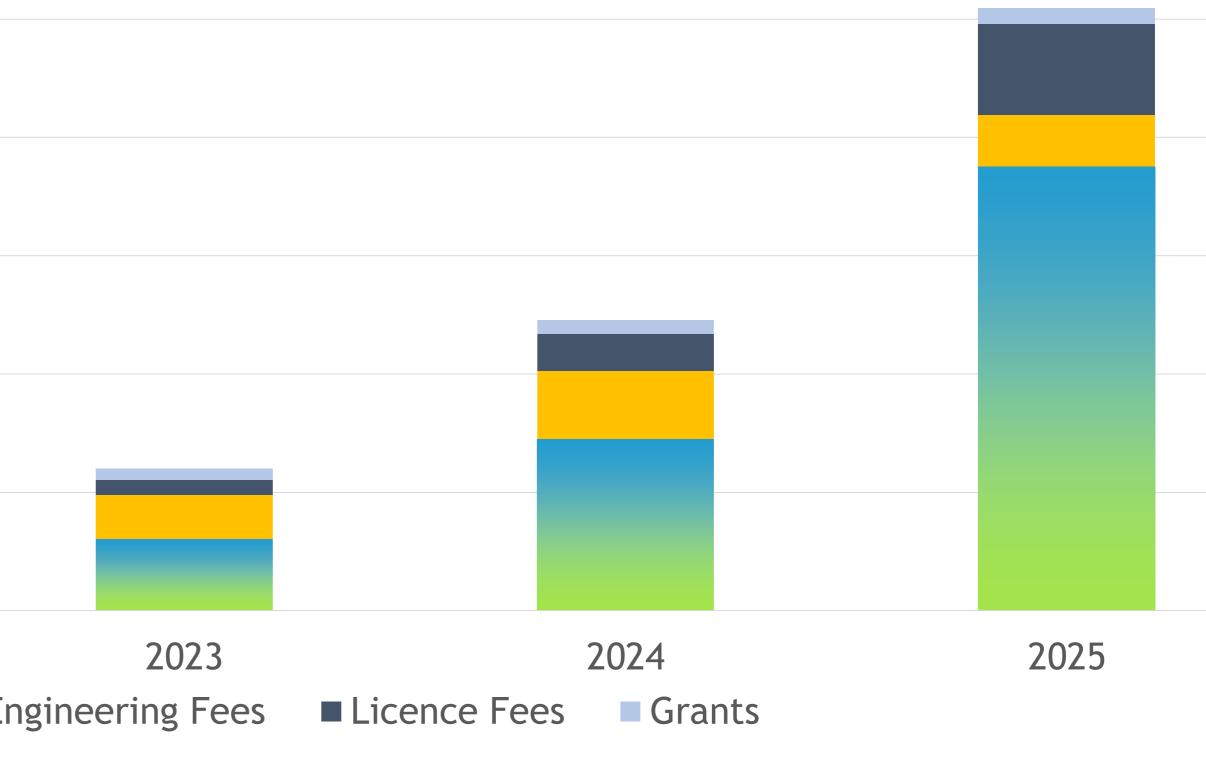




Revenue Growth Plan

Projected rev 2021-2025 (\$	venue compositi m)	on by category	
\$300m			
\$250m			
\$200m			
\$150m			
\$100m			
\$50m			
\$0m			
	2021	2022 MEA & Membrane Sales	<mark>=</mark> Er

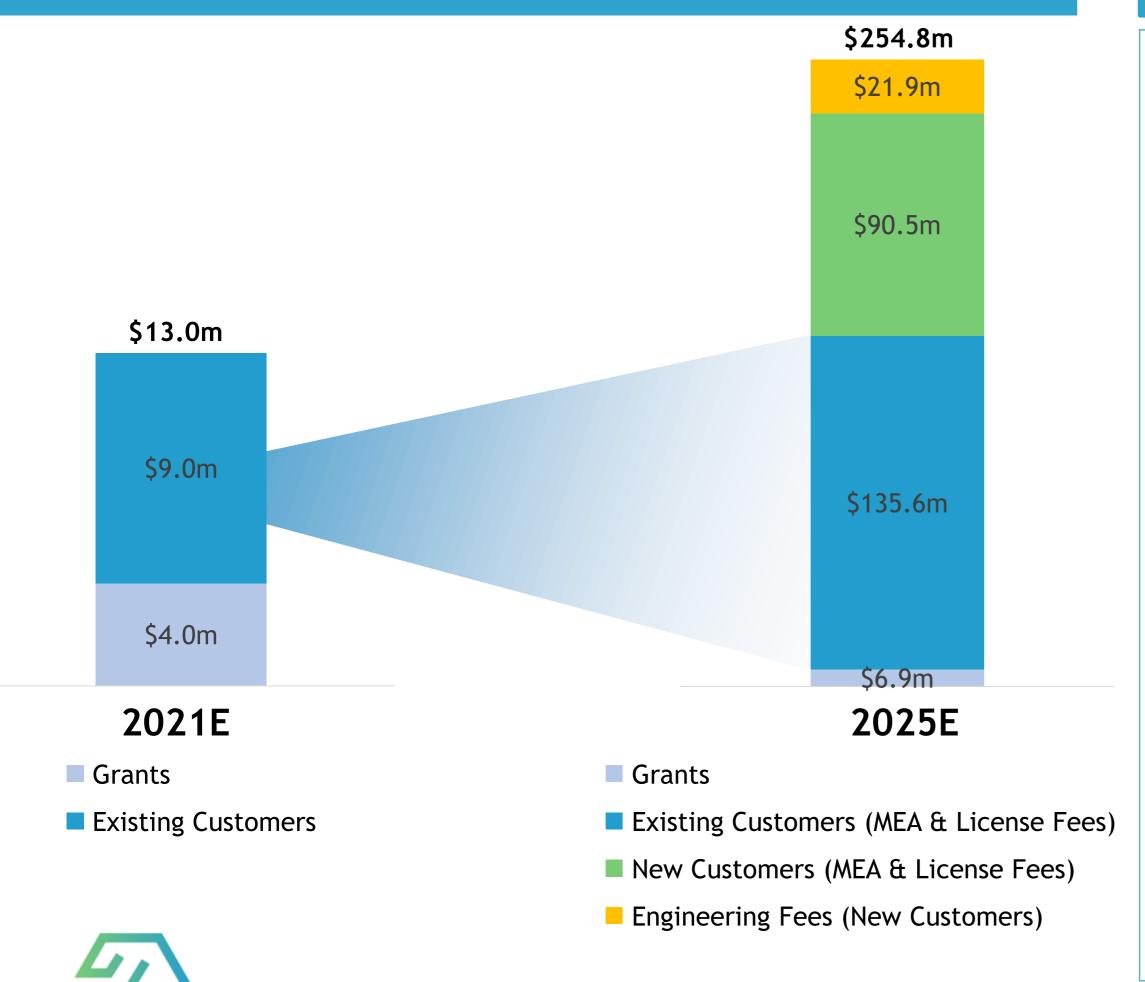
Advent's revenue growth is driven by significant power requirements across our target markets





Highly Attractive Pipeline





>60% of 2025E MEA sales projected to come from existing 2020 customers

Select Identified Opportunities

Customer	Advent Product	Details		
Multiple OEMs - Fuel Cell EV trucks	HT-PEM fuel cells	 5,000+ trucks on the road @ 200kW per truck 1GW potential opportunity in 2025 		
Asian fuel cell manufacturer	MEA	 Existing customer MoU in place envisages >5m MEAs in 2023 - 2x forecast MEA production 		
US OEM - portable power	MEA (Durability and Temperature Resilience)	 OEM currently supplies portable power fuel cell units to 4 military units globally, including in the U.S. and U.K. Existing customer Projected revenue opportunity \$20m in 2025 from single product only 		
Asia - EV charging stations	HT-PEM fuel cells	 Target 4,500 stations @ 240kW per station = 1.1 GW opportunity 		
US IoT - gas sensor	Membranes for heat resistivity	 Silicon Valley-based US developer OEMs - two global cellphone manufacturers Cellphone market opportunity alone represents \$25m in 2025 		





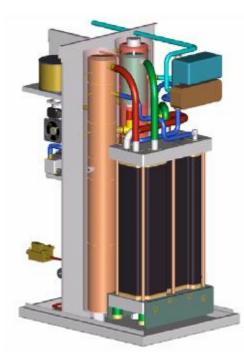


Detailed Use of Proceeds Product Development Plan







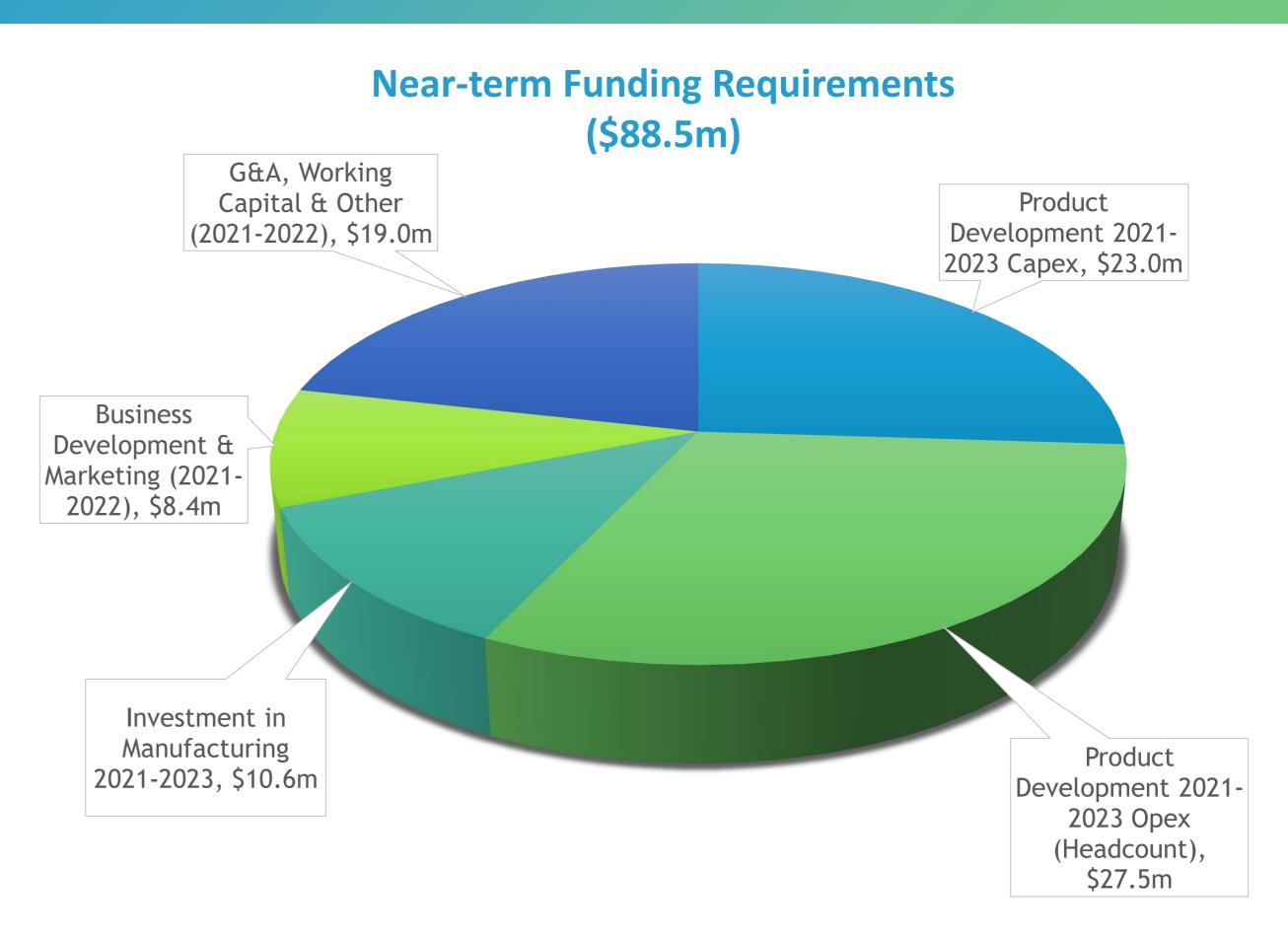


Program ⁽¹⁾	Total (2021 - 2025)		
New Production Equipment & Warehousing	\$52.7m		
US facility expansion	\$8.9m		
Advanced DOE MEA Cost	\$8.0m		
Current MEA	\$0.7m		
MEA for flight	\$1.0m		
MEA assembly automation	\$12.2		
Aeronautical Stacks	\$10.3		
Robotic Stack Assembly	\$9.8m		
System Assembly Line	\$42.8m		
Printable electronics	\$7.0m		
Total	\$153.4m		



(1) Includes opex for product development plan.

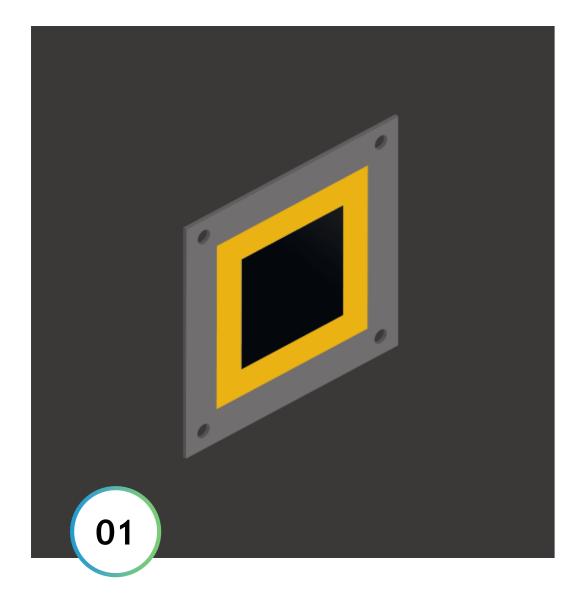
Use of proceeds geared towards Advent's development program resulting in top-line growth







Long-Term Partnership with UltraCell as a Platform for Growth



Battery Charger

3 Gallons of methanol

02

vs.121 lbs of batteries



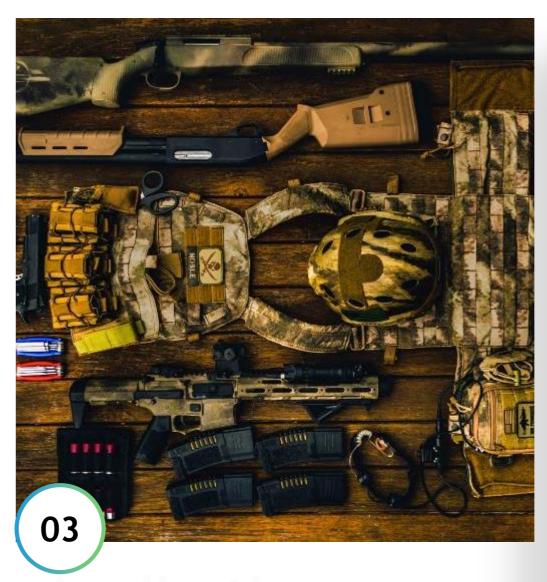
Advent Inside



- Advent MEAs pass military grade tests
- New Advent materials are game changer for portable power industry

- Portable Power: Military grade, 55W-1kW battery chargers allows long autonomy, 5x weight drop
- Lightweight design and system testing expertise

Made in USA Proven innovation with product in market





Deployed in the US, UK, and two more

Business

- Immediate growth opportunity
- Expand sale/capabilities with Advent capital

Know-how & new team propels aviation/automotive next-generation product

04

Vision







5. Financial Overview Path to Profitability





Summary Financials

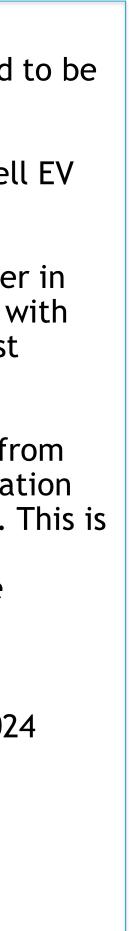
\$m	2020E	2021E	2022E	2023E	2024E	2025E
MEAs sold ('000s)	2	325	788	2,144	6,296	18,354
Capacity (MW)	0.1	11	26	265	779	2,271
Revenue	1.7	13.0	25.6	60.0	122.8	254.8
MEAs	0.8	5.9	12.8	30.3	72.5	187.7
Engineering, License Fees & Grant Income	0.9	7.2	12.8	29.7	50.3	67.1
Cost of Goods Sold	(0.4)	(8.8)	(19.8)	(38.7)	(76.1)	(174.4)
Gross Profit	1.3	4.3	5.8	21.3	46.8	80.4
% Margin		33%	23%	36%	38%	32%
SG&A and Other	(2.1)	(18.1)	(20.4)	(22.8)	(23.0)	(29.5)
EBITDA	(0.8)	(13.8)	(14.6)	(1.5)	23.8	51.0
% Margin					19 %	20%

High growth model offering stable margins whilst enabling passthrough of efficiencies to our end users

	2.3GW power capacity projected sold in 2025
	Equates to 10,000 220kW fuel cel heavy-duty vehicles
	Average MEA cost/kW to custome 2025 ~ \$80/kW, reducing in line v long-term customer fuel cell cost requirements
	 10-fold reduction in sales price fr 2020-2025 drives market penetration without sacrificing gross margin. facilitated by: Unit cost economies of scale Technological advancement Manufacturing automation
Ð	Projecting EBITDA positive by 202









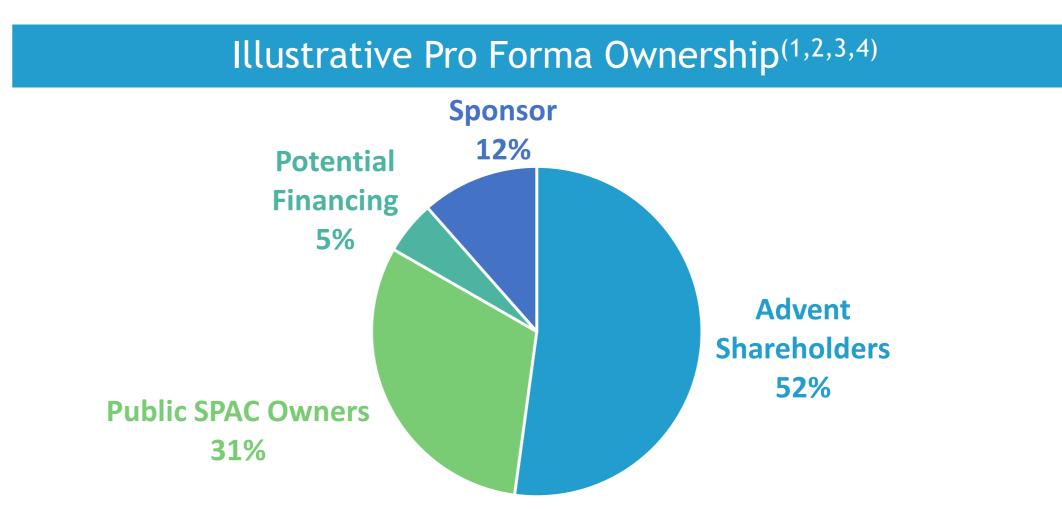
Pro Forma Sources, Uses & Equity Ownership

Sources (\$m)	
Shares Issued to Advent Shareholders ⁽¹⁾	\$250
Estimated SPAC Cash in Trust ⁽²⁾	\$153
Potential Financing ⁽³⁾	\$25
Total Sources	\$428
Uses (\$m)	
Rolled Advent Equity	\$250
Cash to Balance Sheet to Support Project Development and Working Capital	\$121
Cash Used to Repurchase Warrants ⁽⁴⁾	\$39
Estimated Fees & Expenses ⁽⁵⁾	\$18
Total Uses	\$428

- (1) Advent to be issued shares of Class A common stock at \$10.00/share.
- (3) AMCI is seeking \$25 million of additional financing as part of the transaction. Pro Forma Ownership assumes that Potential Financing is in the form of Class A common stock issued at \$10.00/share.
- (4) Assumes repurchase of all 22.1m of the public warrants and 3.9m of the private placement warrants at \$1.50/warrant. 2.0m of the private placement warrants will be forfeited.
- (5) Estimated Fees & Expenses includes deferred underwriting fees and other expenses.
- (6) Inclusive of \$1m of Advent net cash as of 6/30/2020 and Cash to Balance Sheet resulting from the transaction.

Pro Forma Valuation

Share Price (\$/share)	\$10.00
PF Shares Outstanding (mm shares) ^(1,2,3)	47.9
Equity Value (\$m)	\$479
Less: Cash ⁽⁶⁾ (\$m)	(\$122)
Enterprise Value (\$m)	\$358



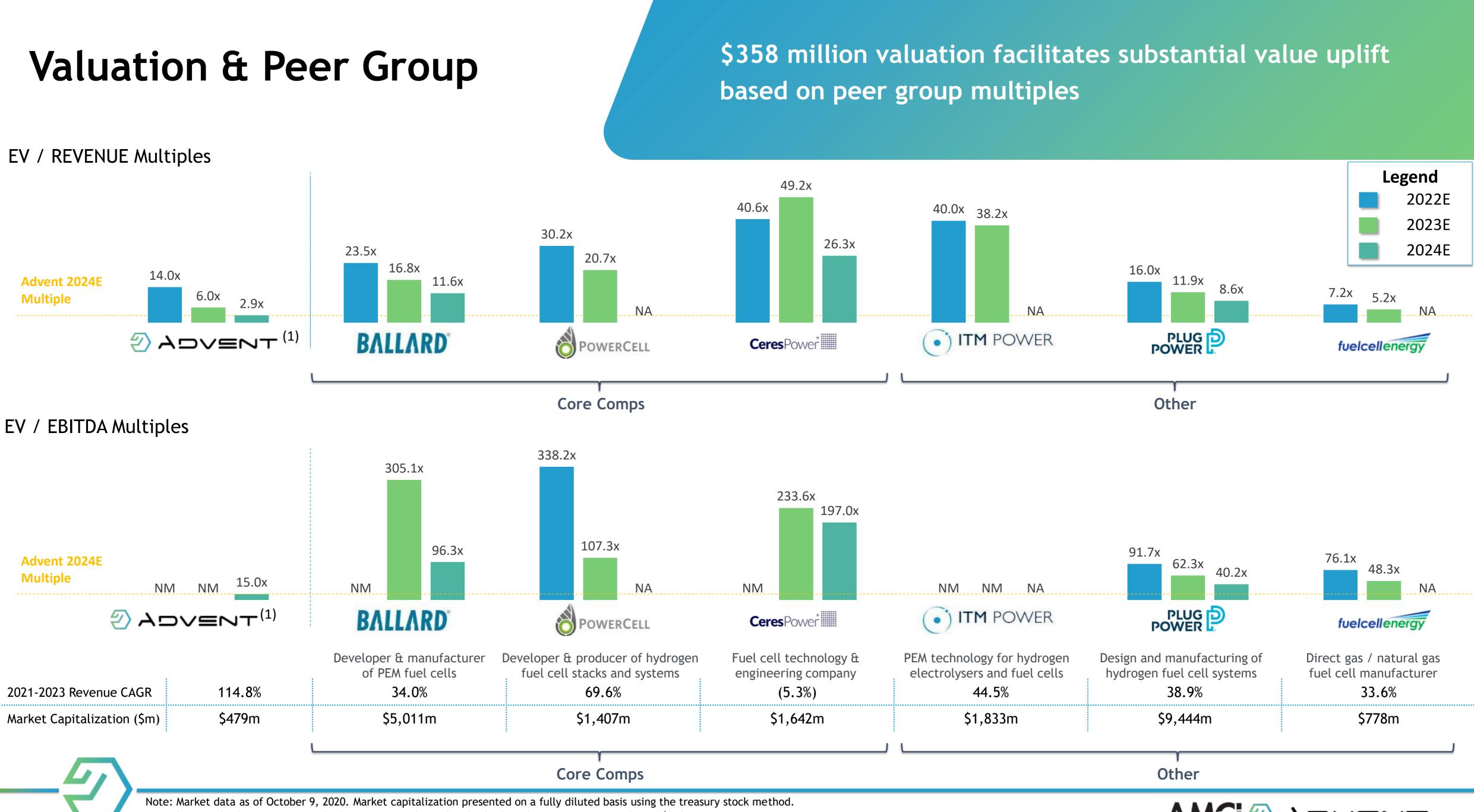
(2) Cash in Trust and Pro Forma Ownership assumes no redemptions of Class A common stock. There were 14.9m shares of Class A common stock outstanding and 5.5m shares of Class B common stock outstanding as of September 25, 2020.











(1) Advent multiples represent implied Transaction Adjusted multiples based on PF Enterprise Value of \$358m. "NM" indicates the data is not meaningful. "NA" indicates not enough data is available.

AMCI 2 ADVENT



Significant Strategic Interest in Fuel Cell Technology

Acquirer	BOSCH	C THE LINDE GROUP	cummins	MAN Energy Solutions		
Announceme nt Date	January 22, 2020	October 3, 2019	June 28, 2019	March 26, 2019	August 29, 2018	May 16, 2018
Transaction Summary	Bosch increases stake in Ceres Power and forms partnership	Linde acquires 19% stake in ITM Power and forms JV	Cummins completes acquisition of Hydrogenics	MAN Energy Solutions acquires 40% stake in H-TEC Systems	Weichai Power Co. acquires 19.9% stake in Ballard Power Systems and forms JV	Weichai Power Co. acquires 20% stake in Ceres Power and form JDA
Target	Ceres Power [®]	• FOWER	HYDROG (E) NICS SHIFT POWER ENERGIZE YOUR WORLD	H-TEC SYSTEMS	BALLARD®	Ceres Power [®]
Target Description	Bosch and Ceres formed a partnership to apply Ceres' fuel cell technology to create small power stations for cities, factories, datacenters and EV charging points	Manufacturer of PEM electrolyzers for the electro- chemical splitting of water into hydrogen and oxygen	Designs, develops, and manufactures hydrogen generation products based on water electrolysis technology and fuel cell products based on proton exchange membrane (PEM) technology	Leading producer of PEM electrolyzers and PEM stacks	Engages in the design, development, manufactures, sale, and service of PEM fuel cell products	Weichai and Ceres announced a strategic investment and joint development agreement (JDA) to develop bus Range Extenders and commercial EV
Key Details	 \$140mm invested to date⁽¹⁾ \$102mm investment to increase stake from 4% to 18%⁽¹⁾ Spent \$12mm on initial 4% and incremental \$26mm license⁽¹⁾ 	 Linde and ITM Power to form a JV to target large-scale industrial users of hydrogen Total investment of \$76 million⁽²⁾ 	 \$290mm TEV TEV / LTM Revenue 8.5x 	Undisclosed	 \$163mm equity investment \$90mm technology transfer related to JV formation to support China's FCEV market 	 ✓ Investment of \$61m for a 20% interest⁽³⁾ ✓ License Agreement for \$50m⁽³⁾ ✓ Joint development of a 30kW range-extender systems ✓ Electric bus manufacturing JV



Recent investments demonstrate strong demand for fuel cell exposure







6. Conclusion





Conclusion

Advent's HT-PEM technologies are an essential component needed to unlock the Hydrogen Economy



Provides low-cost, fuel-flexible and resilient and fuel cell technology



Developing and manufacturing the critical components for high-growth new energy markets



Advent's technologies solve range and recharge mobility problems



Proven, scalable business model that delivers consistent and recurring revenue



Platform technology provides critical performance benefits for a wide range of end markets



Experienced management team partnering with world-class research centers





Appendix



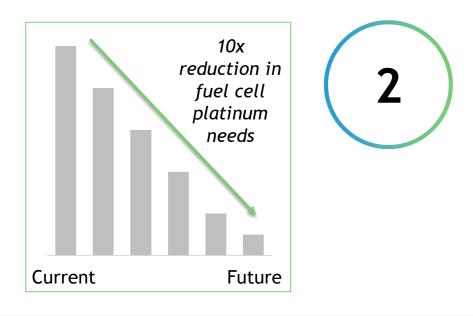
Product Development Initiatives Fuel Cells





New MEAs outperform competition

- Achieve power density close to LT-PEM pure \bigtriangledown hydrogen MEAs
- Works anywhere: extreme temperature, $\langle \nabla \rangle$ humidity, pollution
- Long lifetime reduces total cost of ownership Ð
- Fuel flexibility wins in niche markets \bigtriangledown



Minimum Cost Catalyst

- Can reduce the platinum load by 10x $\langle \nabla \rangle$ compared to current state-of-the art
- Platinum free catalysts also in R&D stage \bigtriangledown



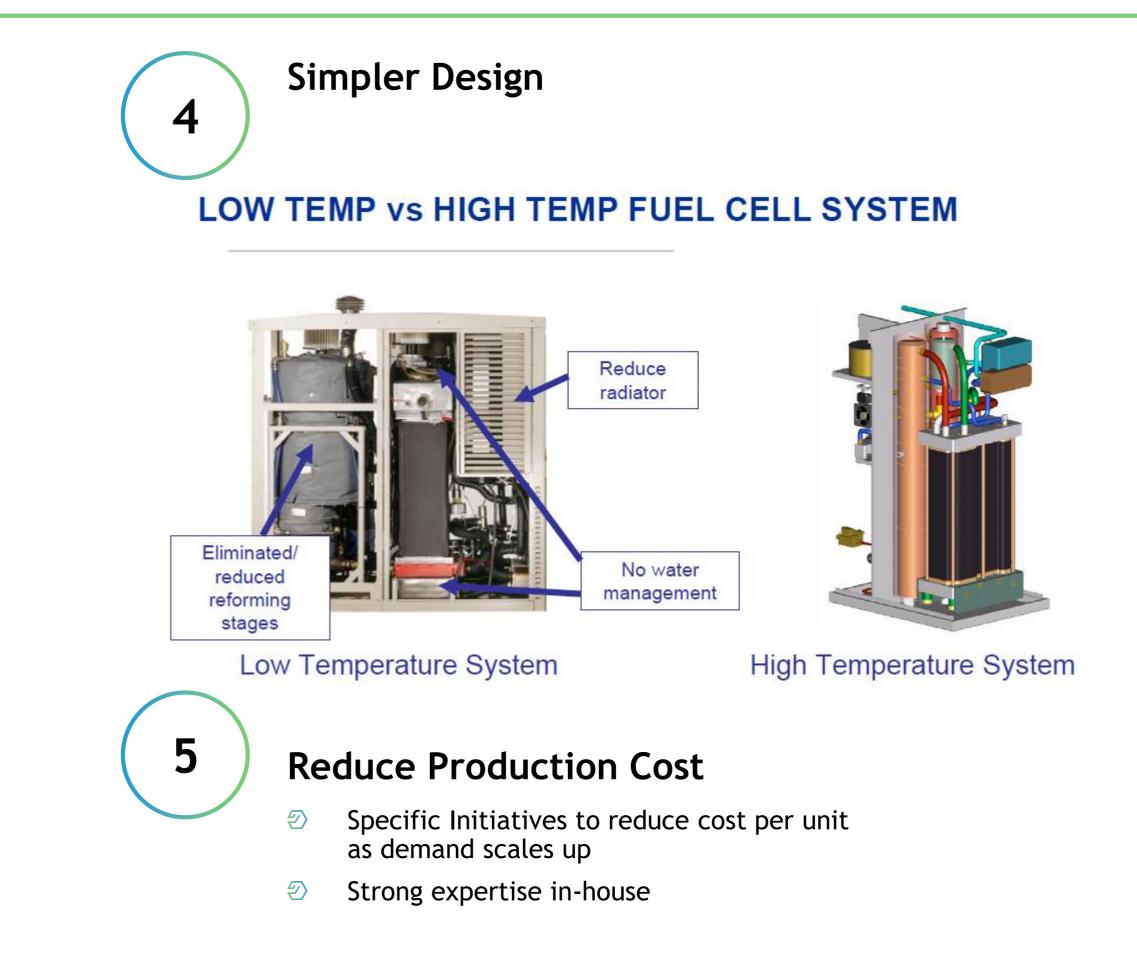


New Bipolar Plates drop weight for Auto and Aviation markets

Will reduce the weight by 4x without the Ð use for expensive metal alloys



Product development program to reduce cost and increase power output







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Well-Established Global Policy Support for Fuel Cells

Long-term Market Trends (Deloi	tte / Ballard report)
ltem	Details
Hydrogen Refueling Stations - 2030 targets	 US: 7,100 EU: 3,700 Japan: 900 China: 500 (trebled capacity in the second seco
Publicly-announced FCEV targets in 2030 by country	 US 5.3 million Japan 0.8 million (passenger v Europe 3.7 million FCEVs by 2
Selected Targets by Company	Hyundai targeting 500,000 FCToyota targeting 30,000 FCEV
US State Level - Ambitious Targets	• California alone is targeting 1
Other Trends	 Participants of the Hydrogen including China, India, USA, Ja a global target of 10,000,000 EU target of 32% replacement Japan is the leader in stational launched in 2014



Favorable global policies are just one of the tailwinds driving the growth of the global Hydrogen Economy

/ in 2019)

vehicles)

2030 and in addition 0.5m fuel cell LCVs, 45,000 fuel cell trucks & buses

CEVs on the road in 2030 V sales annually from 2020 onwards

1 million FCEVs and 1,000 refueling stations in 2030

Energy Ministerial (global clean energy forum involving all major nations Japan, Korea, Germany, France, UK, Brazil, Canada and Australia) signed up to D FCEVs on the road by 2030 Int of natural gas for heating with hydrogen by 2040 nary CHP fuel cells - 20,000 deployed to date; and in FCEV's - Toyota Mirai





More Countries are Looking to Phase Out Internal Combustion Engines ("ICE")

Country	Action Announced	Date Announced
Austria	No new ICE vehicles sold after 2020	2016
Britain	No new ICE vehicles sold after 2040	2017
California (U.S.)	No new ICE vehicles sold after 2035	2020
China	End production and sales of ICE vehicles by 2040	2017
Denmark	5,000 EVs on the road by 2019, tax incentives in place	Since 2008
France	No new ICE vehicles sold after 2040	2017
Germany	No registration of ICE vehicles by 2030 (passed by legislature)	2016
India	No new ICE vehicles sold after 2030	2017
Ireland	No new ICE vehicles sold after 2030	2017
Israel	No new ICE vehicle imports after 2030	2018
Japan	Incentives program in place for EV sales	Since 1996
Netherlands	No new ICE vehicles sold after 2030	2017
Norway	Incentives program in place for EV sales	Since 1990
Portugal	Official target and incentives in place for EV sales	Since 2010
Scotland	No new ICE vehicles sold after 2032	2017
South Korea	EVs account for 30% of auto sales by 2020	2016
Spain	Official target and incentives in place for EV sales	2017
Taiwan	Phase out of fuel-powered motorcycles by 2035 and fuel-powered vehicles by 2040	2017



17 countries have taken varying types of action, from soft targets to strong commitments, to phase out ICE vehicles and increase the number of EVs







Glossary

Abbreviation	Term	Description
BEV	Battery electric vehicle	Vehicle using exclusively battery technology
BOM	Bill of materials	List of raw materials, assemblies and parts and quantities of each to manufacture a finished product
СНР	Combined heat and power	Also known as cogeneration, CHP is primarily used in industrial applications
DoE	U.S. Department of Energy	Primary governmental body responsible for clean energy R&D
FCEV	Fuel cell electric vehicle	Vehicle using fuel cell technology, often in conjunction with batteries
HDV	Heavy-duty vehicle	A vehicle exceeding 26,001 pounds
HT-PEM	High-temperature proton exchange membranes	Operate at 160°C to 200°C
ICE	Internal combustion engine	Standard heat engine used in traditional vehicles
ΙοΤ	Internet of Things	System of interrelated computing devices able to transfer data over a network



Abbreviation	Term	Description
Li-ion	Lithium Ion	Common battery used in consumer electronics and EVs
MEA	Membrane electrode assembly	Assembled stack of proton exchange membranes; heart of the fuel cell
MDV	Medium-duty vehicle	A vehicle weighing 10,001 - 26,000 pounds
OEM	Original equipment manufacturer	Company that produces devices from intermediate components
PHEV	Plug-in hybrid electric vehicle	Combines ICE with battery-powered electric vehicles
RFB	Redox flow battery	Industrial scale rechargeable battery that can be used in industrial scale applications
SOFC	Solid oxide fuel cell	Highest temperature fuel cell (800°C 1,000°C)
	Electrolysis	Process using direct electric current (to drive chemical reaction
	eFuels	Synthetic fuels resulting from electrolysis of water with renewable energy and CO2







