

TM
AQUARIUS ENGINES
ENERGY GENERATION

2022

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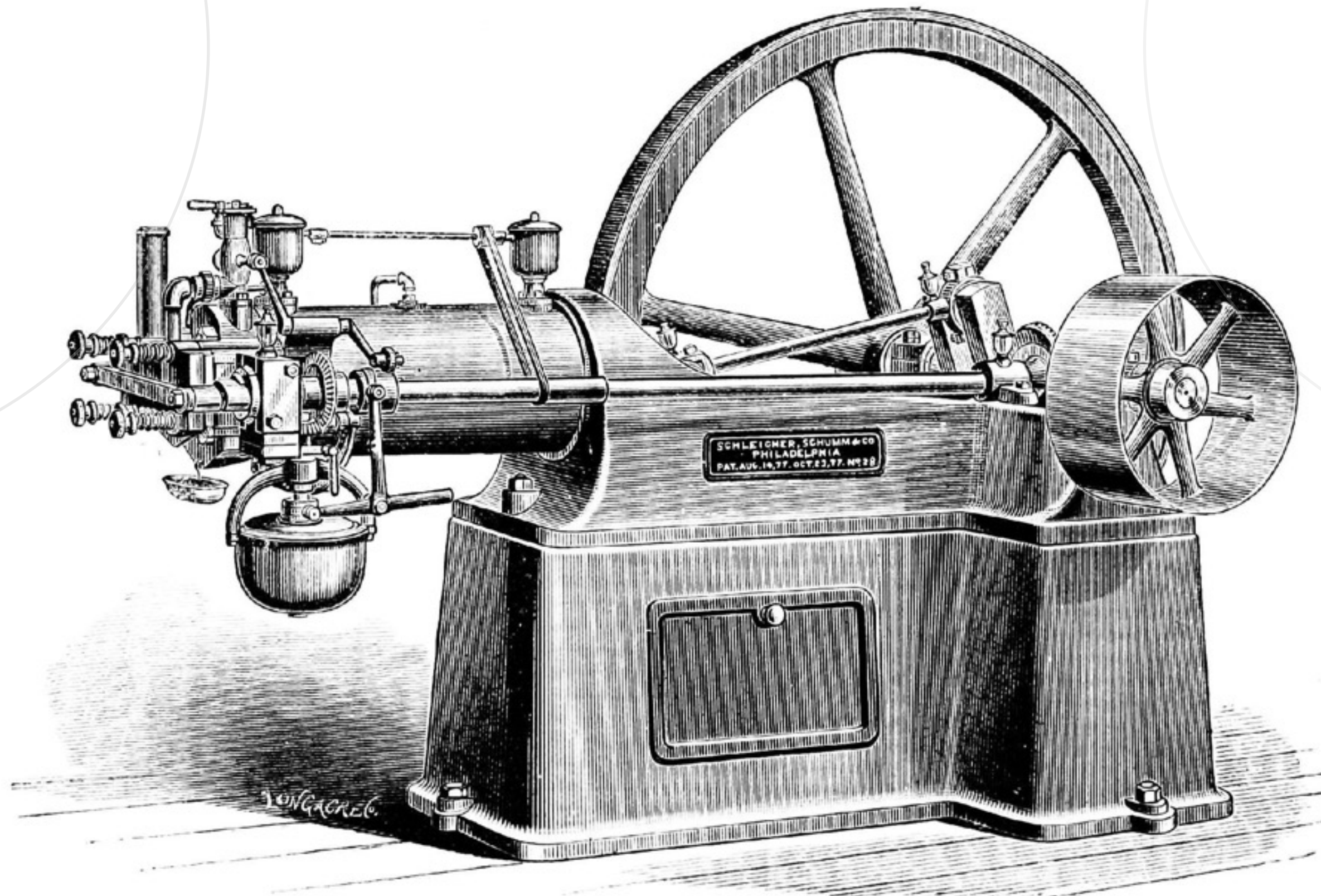
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THE ENGINE WE KNOW

• The internal combustion engine (ICE) has not changed in 150 years since its invention by Nicholas Otto in 1876

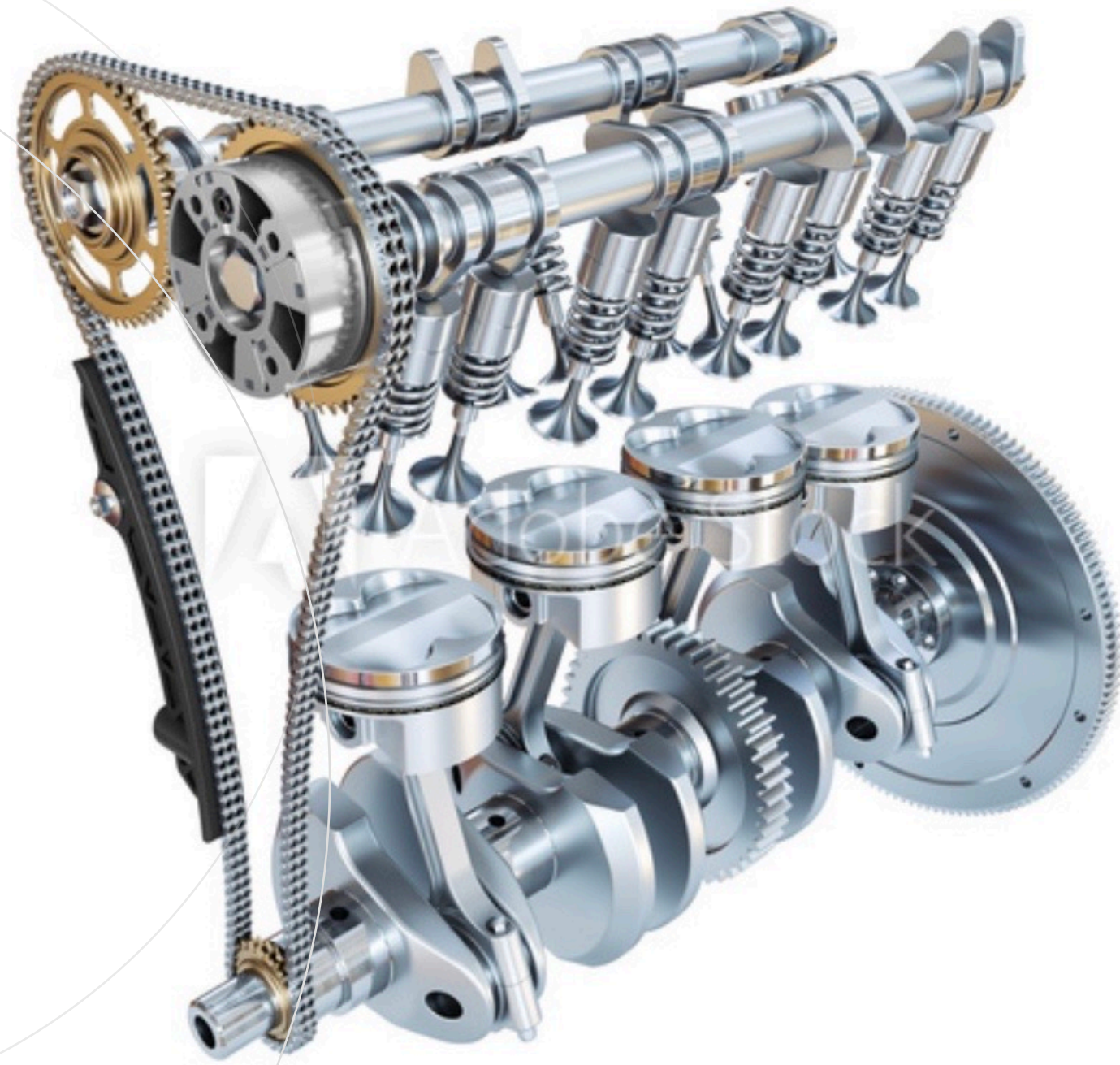


Nicholas Otto •



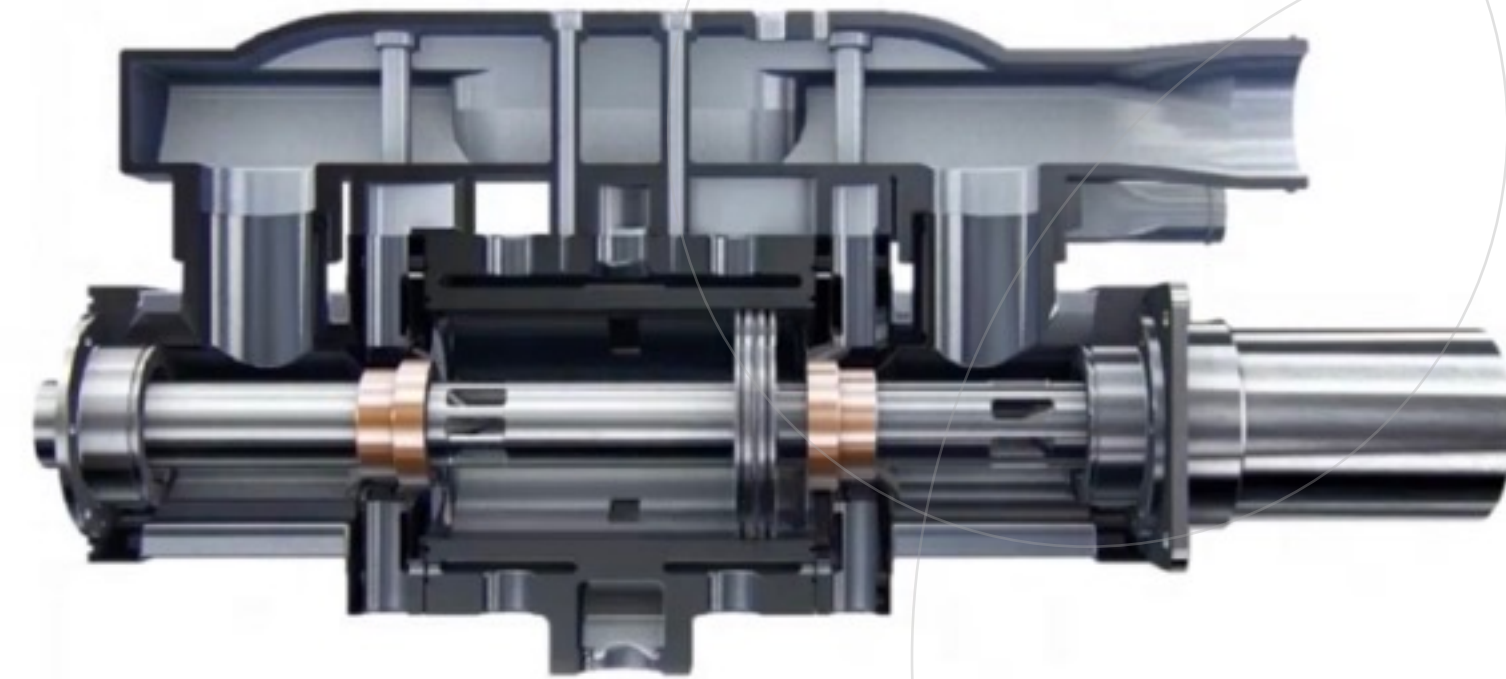
AQUARIUS CHANGED THAT

LEGACY ICE



COMPLEX STRUCTURE
MULTIPLE MOVING PARTS
HIGH MAINTENANCE
HIGH COST
HIGH CARBON EMISSION
WEIGHS HUNDREDS OF LBS

AQUARIUS DISRUPTIVE LINEAR ENGINE



SIMPLE STRUCTURE
ONE MOVING PART
LOW MAINTENANCE
LOW COST
LOW CARBON EMISSION
WEIGHS 23 OF LBS

CLEAN ENERGY GENERATION THAT REDUCES GHG EMISSION

INPUT



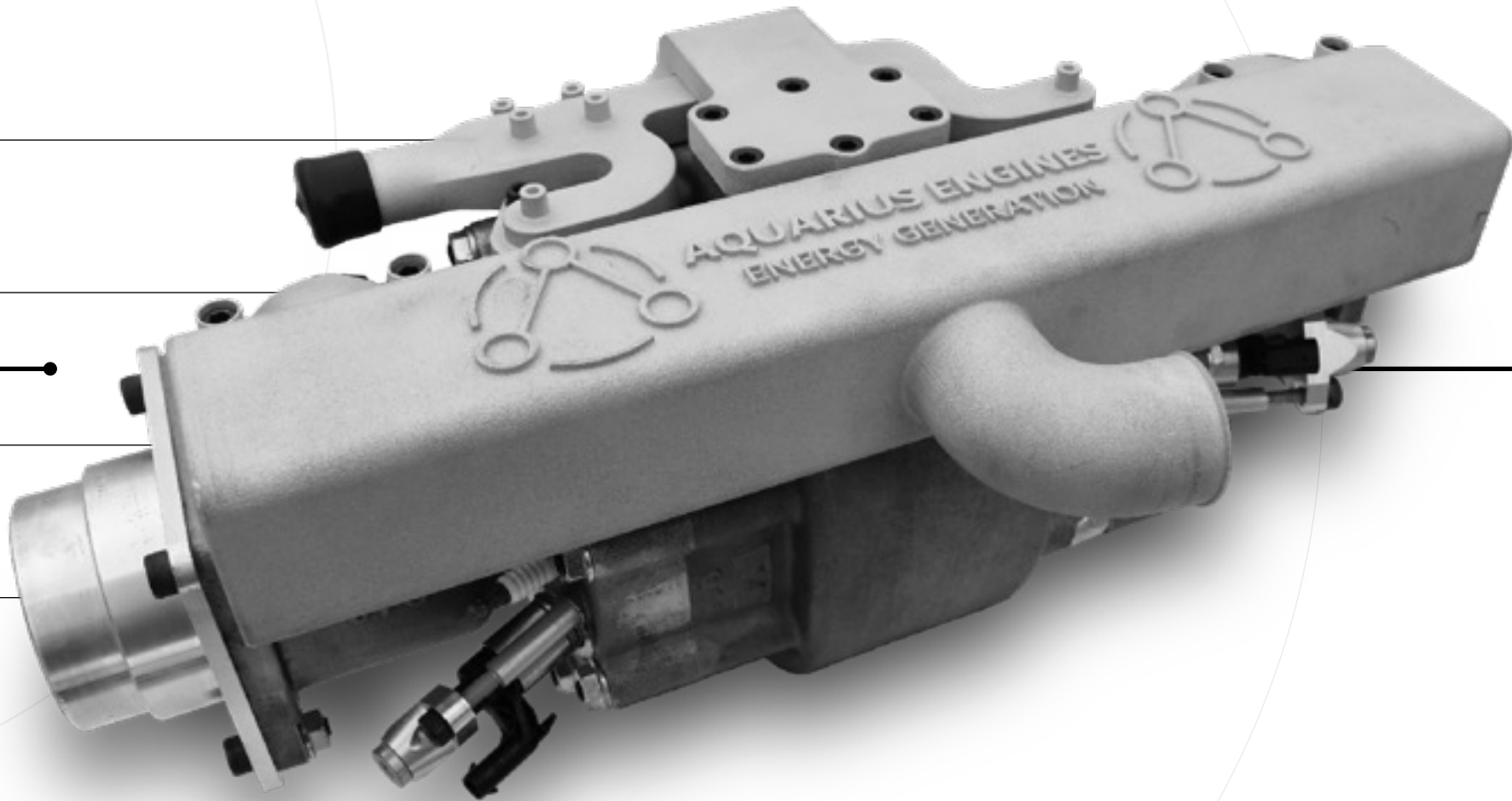
Hydrogen | Methanol L
PG | E85

Height 25 cm / 9.84 in

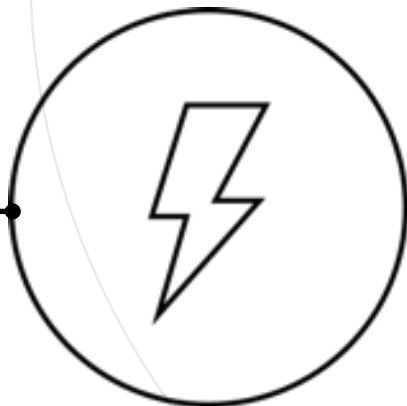
Length 45 cm / 17.72 in

Weight 10.1 kg / 22.27 lb

Width 22 cm / 8.66 in



OUTPUT



Electricity

FREE PISTON ENABLING MULTI FUEL WITHIN THE SAME ENGINE
(SYNTETIC, BIO AND FOSSIL FUELS)

A DISTINCT COMPETITIVE ADVANTAGE - CAPEX & OPEX

TARGET APPLICATIONS

ANYTHING 'ENGINE'

•
GENERATORS

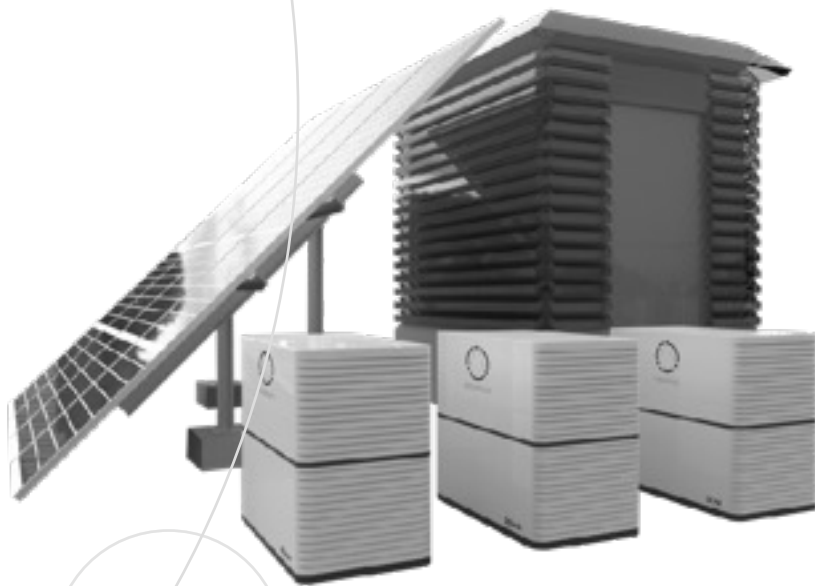
•
TELECOM

•
POWERTRAINS

•
AUTOMOTIVE

•
MARINE

•
AVIATION



2021

2022

2025

2030

THE GLOBAL GENERATOR MARKET

OUR STAGE I MARKET FOCUS

BACKUP GENERATORS MARKET EXPECTED TO NEARLY
DOUBLE IN LESS THAN A DECADE

¹ **2020**
\$21B
A YEAR

2.1M Units



¹ **2030**
\$38B
A YEAR

3.8M Units

1. https://www.gminsights.com/industry-analysis/generator-sets-market?GCLID=CJWKCAIA1AIMBHAUEIWACW25MQCDJT5_EJWAOO2-Y86S5A96YAAQAZQELZ3EFTKNB68S3NHSOCYDA_XOCVNUQAVD_BWE

AQUARIUS CURRENT TARGET MARKET

APPLICATION FOR COMMUNICATION INFRASTRUCTURE

- Aquarius customers are pressured to reduce GHG emissions by dozens of percentages already in 2023-2025¹
- Aquarius is addressing top three market needs and changeless in Telecom infrastructure, GHG, uptime and energy cost
- Out of 5M communication towers worldwide², 10-15% estimated to have backup power, total market of \$4.5B-\$6.75B
- 7M tons of co2 emissions are attributed to diesel generators every year³, Global warming is pushing to replace those polluting generators in the coming years.

TELECOM- RELEVANT PLAYERS

Communication equipment companies



NOKIA

Tower companies



2,000,000
Towers



221,000
Towers



185,000
Towers



163,000
Towers



137,000
Towers



40,000
Towers



41,000
Towers



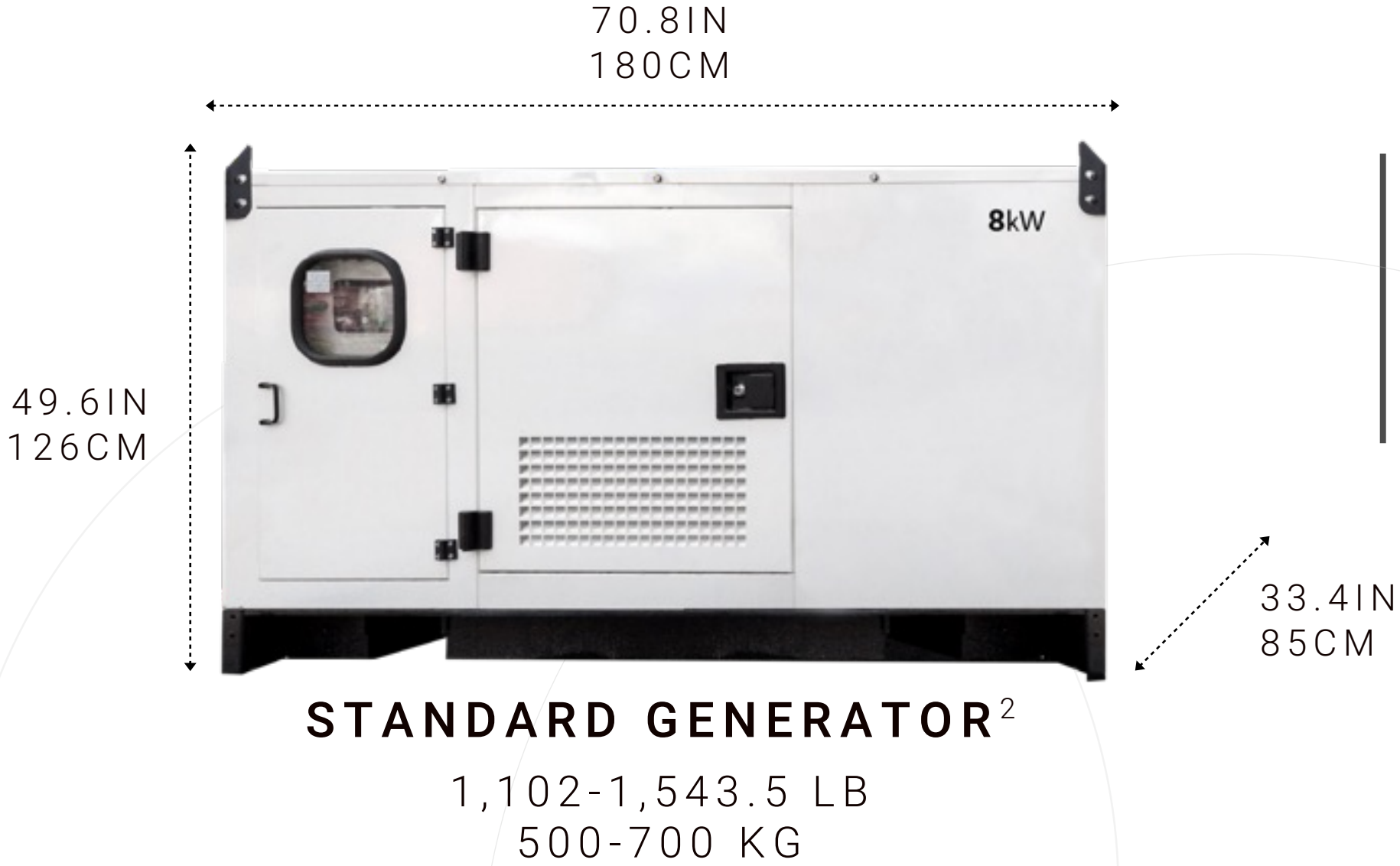
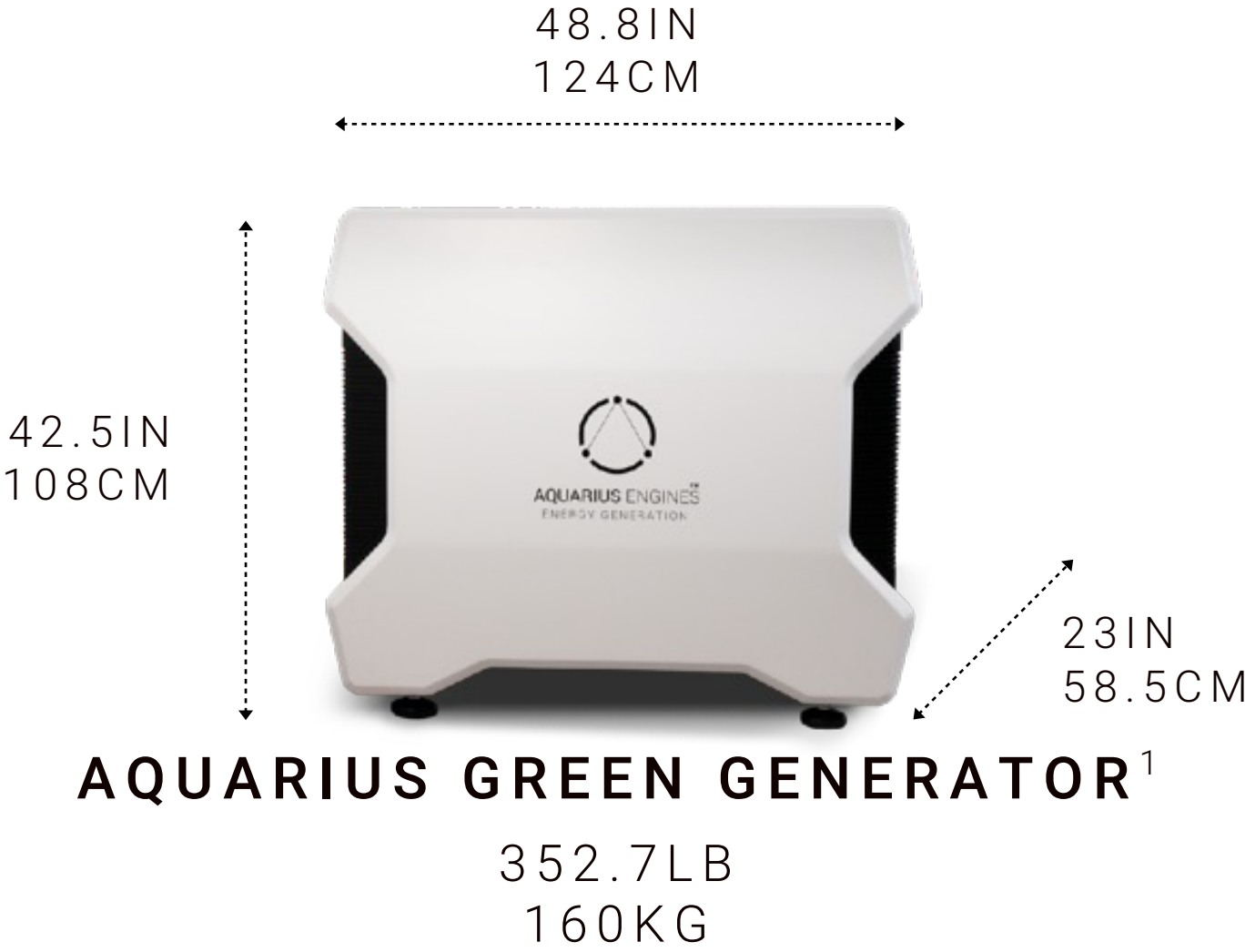
36,000
Towers

THE GLOBAL NEED TO DECREASE EMISSIONS ON TOP OF REDUCING ENERGY CAPEX&OPEX
IS A UNIQUE OPPORTUNITY FOR AQUARIUS SOLUTION



1. <https://www.bcg.com/publications/2021/building-sustainable-telecommunications-companies>
2. <https://www.imarcgroup.com/telecom-tower-market>
3. <https://www.gsma.com/mobilefordevelopment/resources/renewable-energy-for-mobile-towers-opportunities-for-low-and-middle-income-countries/>

THE PRODUCT



Multi fuel ³ (Hydrogen Methanol LPG Ethanol)	Applicable	Not Applicable
High Uptime	Applicable	Not Applicable
TCO (3Years time) Maintenance cost: 40% -100%	80-85% Lower	100%
Remote control	Advanced capabilities – based on data mining and smart managing of energy source, with ALWAYS ON technology.	Limited
Maintenance frequency	Every 1000 hours Smart visit with accurate supply based on remote software	Every 250 hours blind with full unneeded supply based on no knowledge

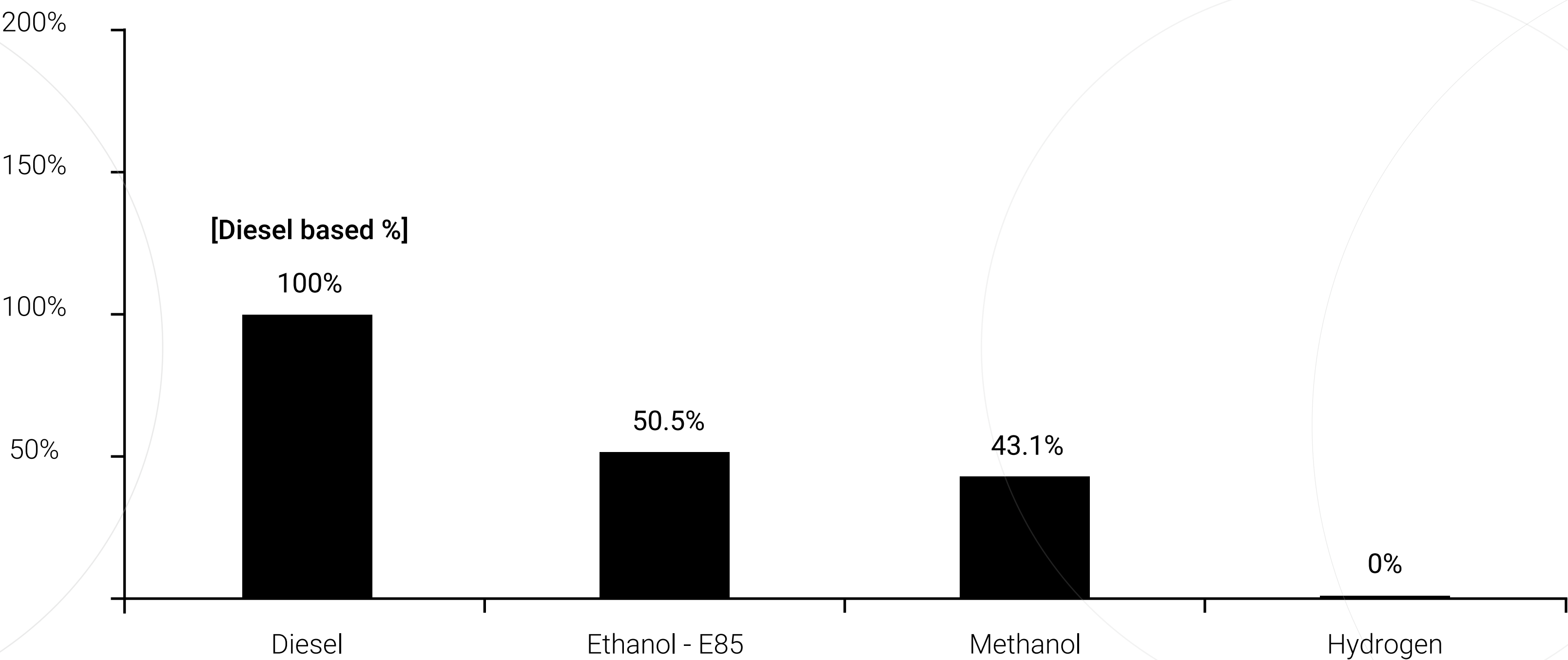


1. See the AVL report from February 2019 for details about the results of the company's linear motor test by AVL SCHRICK GmbH, see section 23.3 of the periodic report for 2020, as published on March 25, 2021 (reference number: 2021-01-044646)

2. e.g. <https://www.pramac.com/product?id=11916&folder=230>

3. Please see slide 9

GHG CRADLE TO GRAVE CONSIDERATION



STANDARD GENERATOR

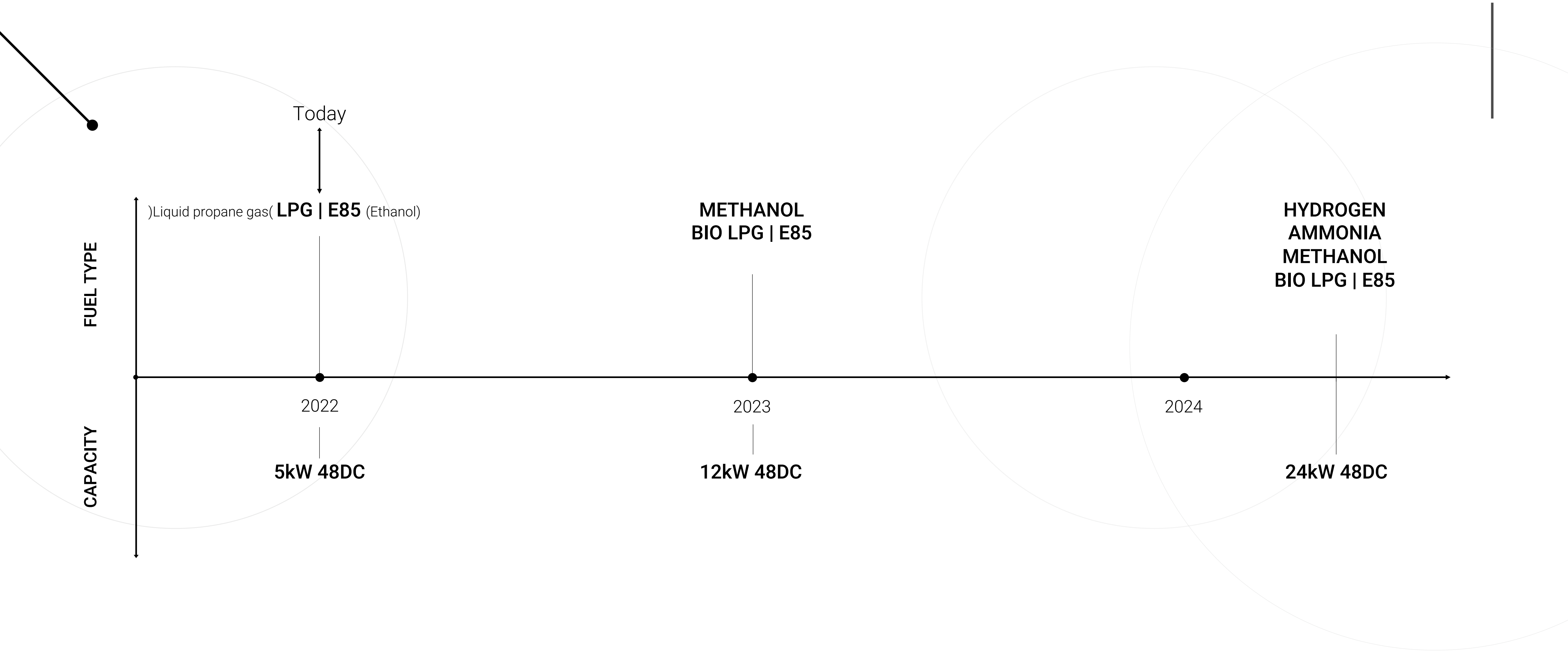


AQUARIUS GENERATOR



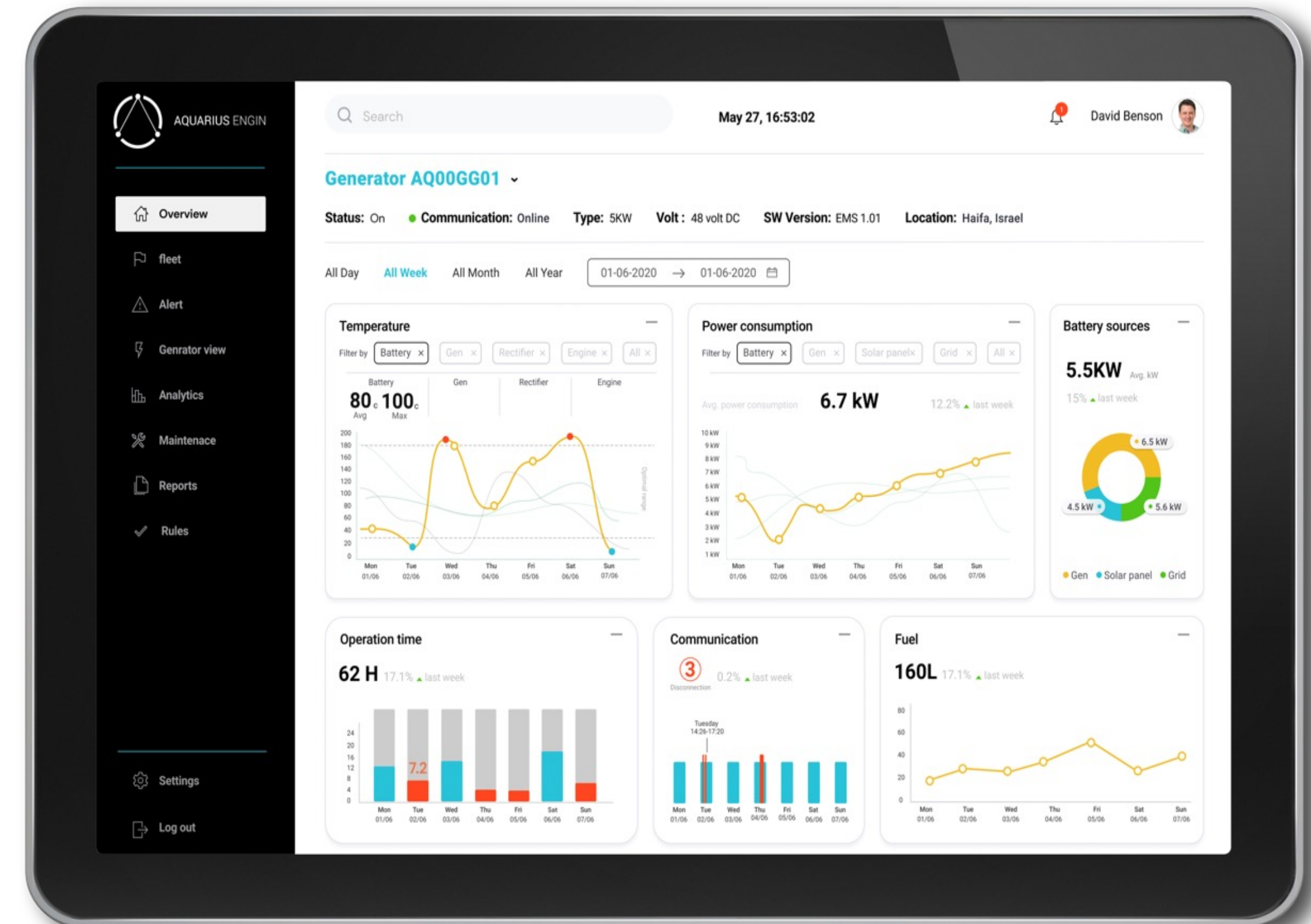
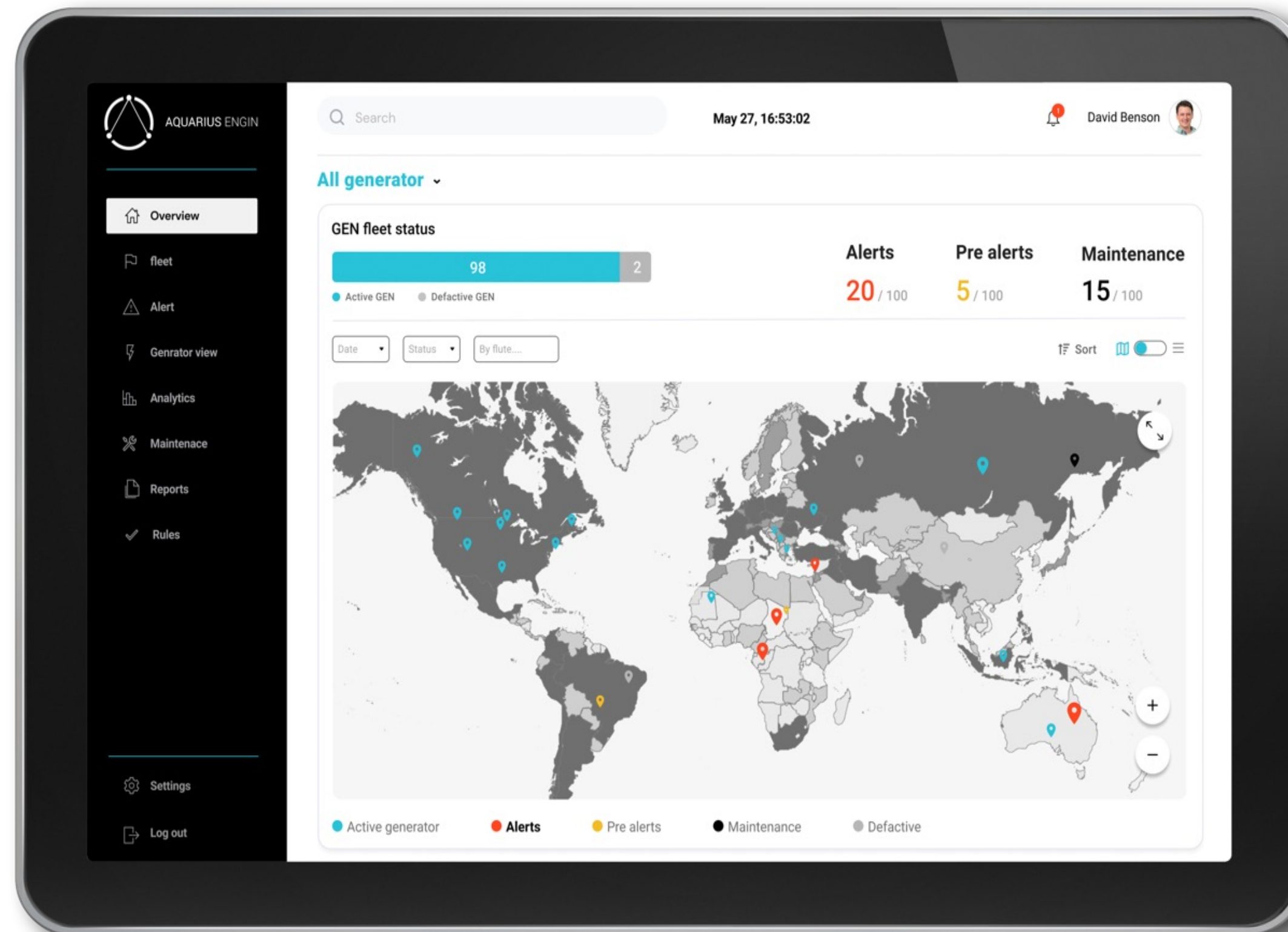
*Global share of renewable energy 35% (2025)

AQUARIUS GENERATORS PRODUCT LINE



AQUARIUS POWER MANAGEMENT SYSTEM (AMS)

BEYOND ENGINE SALES



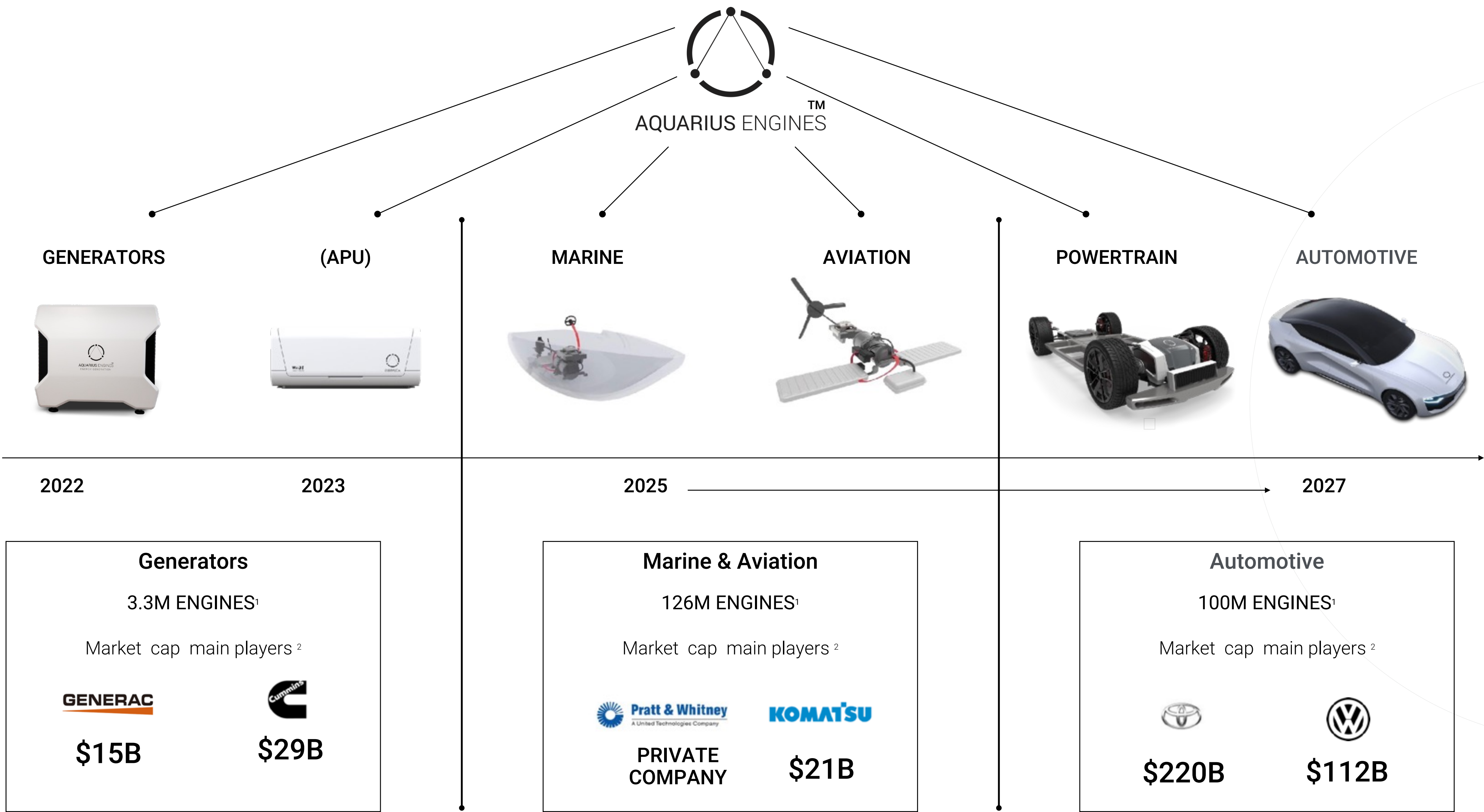
24/7 remote monitoring & intelligent management for single units or geographical clusters

An infrastructure for future smart-grids power management

The basis for a potential EaaS business model (Selling kW/h instead of engines)



AQUARIUS ROADMAP



1. <https://www.grandviewresearch.com/industry-analysis/internal-combustion-engine-market>
2. SOURCE – YAHOO FINANCE , 23.7.2022

(K\$)	2022	2023	2024	2025	2026
Gensets	-	8,711	79,313	267,750	483,469
Engines	-	-	2,500	17,500	50,000
AMS (Software)	-	325	3,475	15,475	39,475
Total Revenues	-	9,036	85,288	300,725	572,944
Gensets	(979)	(7,360)	(52,839)	(162,810)	(270,972)
Engines	-	-	(2,288)	(12,338)	(35,000)
AMS (Software)	-	(260)	(2,085)	(7,738)	(15,790)
Total COGS	(979)	(7,620)	(57,212)	(182,885)	(321,762)
Gensets	(979)	1,351	26,473	104,940	212,497
Engines	-	-	213	5,163	15,000
AMS (Software)	-	65	1,390	7,738	23,685
Gross Profit	(979)	1,416	28,076	117,840	251,182
R&D	(12,083)	(12,522)	(15,565)	(38,912)	(68,096)
S&M	(2,000)	(2,610)	(9,177)	(29,365)	(44,048)
G&A	(4,975)	(6,990)	(9,654)	(28,963)	(50,685)
Total Operating Expenses	(19,058)	(22,122)	(34,396)	(97,240)	(162,829)
Operating Profit / Loss	(20,037)	(20,706)	(6,320)	20,600	88,353
Depreciation	(915)	(1,375)	(2,150)	(3,118)	(4,554)
Amortization	-	-	-	-	-
EBITDA	(19,122)	(19,331)	(4,170)	23,717	92,906

- Aquarius triple advantage of multi fuels within the same engine (synthetic, bio and fossil fuels) and a distinct competitive advantage in energy CAPEX & OPEX with high uptime places Aquarius in a unique position for the current market opportunity
- Clients are pressured to reduce GHG emissions by dozens of percents already in 2023-2025
- Aquarius is expected to start delivering client orders in 2023



Gal Fridman
CO FOUNDER,
CHAIRMAN & CMO

As an expert in global branding, distribution channels, and marketing strategies, Gal has worked with numerous leading companies (STANLEY works, Keter Plastics, ZAG industries). His vast experience covers sales, marketing, managing distributors (Home Depot, Walmart, Leroy, B&Q, and others) and manufacturers' representatives.



Ariel Gorfung
CO FOUNDER,
BOARD MEMBER & CEO

Over the past two decades, Ariel has built a track record of successfully managing and leading companies such as California (IPO), Magic Software (NASDAQ; MGIC), e-Sponsor Ltd. (acquired Intuwave UK), and Neocleus (acquired by Intel). In the last few years, he has served as a director of several cleantech companies.



Giel Matz
PRESIDENT & COO

Giel brings over 30 years of experience in operations and global sales, focusing on IP-driven business. As the managing director of the KETER PLASTICS hardware division, he turned the business from 24 million dollars to \$300 million in 2018.



Assaf Pereg
CFO

With 15 years of experience, Assaf brings expertise in financial planning and reporting, M&A transactions, finance rounds, and investor relations. He has managed global finance teams and led complex processes for public companies and startups: Top Image Systems Ltd (Nasdaq: TISA, acquired by Kofax), Radcom Ltd (Nasdaq: RDCM), Cyberint Technologies Ltd, Become Technological Solutions Ltd and PwC.



Dr. Aras Mirfendereski
VP R&D & GENERAL
MANAGER - GERMANY

Dr. Aras's developments always integrate state-of-the-art processes into corporate structures. Expert in engines, he has extensive experience in bringing systems from concept paper to series maturity in enterprises and OEMs. His novel development approaches are also published by Springer as a scientific author.



Lukasz Obłóza
GENERAL MANAGER - POLAND

Mr. Obłóza has over 13 years of experience in engine development for the automotive industry, including as a Director of Gear Development Team at BorgWarner. Having deep experience in developing integrated motors, transmission, electricity, control, and electronic systems, he has a wide range of knowledge in these areas.



Naoki Kito
BUSINESS DEVELOPMENT
DIRECTOR - JAPAN

As a semiconductor expert with over 20 years of experience, Mr. Kito is both technically and managerially proficient. His projects have included establishing high-speed integrated production lines, HTCCs, and planning investments for overseas ventures that have yielded 2 billion Yen, among others.



Adi Shimon
HEAD OF HR

Adi has extensive experience leading HR strategies in a global environment. In addition to her strong business perspective, she has experience driving complex HR processes like corporate structure, business strategy, and change management. Her expertise in leveraging talent and achieving business and personal goals makes her a trusted partner for business leaders.



Neta Doron
DIRECTOR OF LEGAL AFFAIRS

A patent expert, Neta provides the company with comprehensive legal advice that supports growth and success. She is a certified lawyer who worked for the leading law firms in Israel, representing leading local and global companies. Bringing business knowledge and legal expertise to the company makes her a valuable addition to the team.

Board members



Gal Fridman

CO FOUNDER,

CHAIRMAN & CMO

As an expert in global branding, distribution channels, and marketing strategies, Gal has worked with numerous leading companies (STANLEY works, Keter Plastics, ZAG industries).

His vast experience covers sales, marketing, managing distributors (Home Depot, Walmart, Leroy, B&Q, and others) and manufacturers' representatives.



Izhar shay

He is An Ex-Minister of Science and Technology and a Knesset member. Mr. Shay founded and managed Business Layer, acquired by Netegirt in 2003, and led V-Secure Technologies until Radware acquired it. Since then, he has been a VC partner and has founded Canaan Partners Israel.



Asaf Iram

Asaf is one of GlenRock's Managing Partners and sits on the Board of Directors of the portfolio companies, both public and private. Previously, he worked as a consultant for MATI, a public organization specializing in assisting businesses in establishing and expanding, providing business planning for startups and existing companies, and advising entrepreneurs about establishing businesses in Israel.



Bracha Litvak

As a lawyer and director of several public companies, Bracha brings unique expertise to the table. With over 20 years of experience in various industries, she is a financial and legal advisor with a successful track record in leading complex business processes.



Ariel Gorfung

CO FOUNDER,

BOARD MEMBER & CEO

Over the past two decades, Ariel has built a track record of successfully managing and leading companies such as California (IPO), Magic Software (NASDAQ; MGIC), e-Sponsor Ltd. (acquired Intuwave UK), and Neocleus (acquired by Intel). In the last few years, he has served as a director of several cleantech companies.



Naama Zeldis

EXTERNAL DIRECTOR

Having served as a senior executive and director in various public companies, she brings deep business and strategic understanding. With over 20 years of experience as a leader of innovative companies that disrupt traditional industries, Naama brings an extensive level of expertise to the company.

THANK YOU

info@aquariusengines.com



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ENERGY GENERATION

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