



screems

Whitepaper - Management Summary

Extracts of the Information Memorandum ("IM")

Genuine global Disruption to the electricity markets to be rolled out as **screems energy**

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New Energy Technology^o

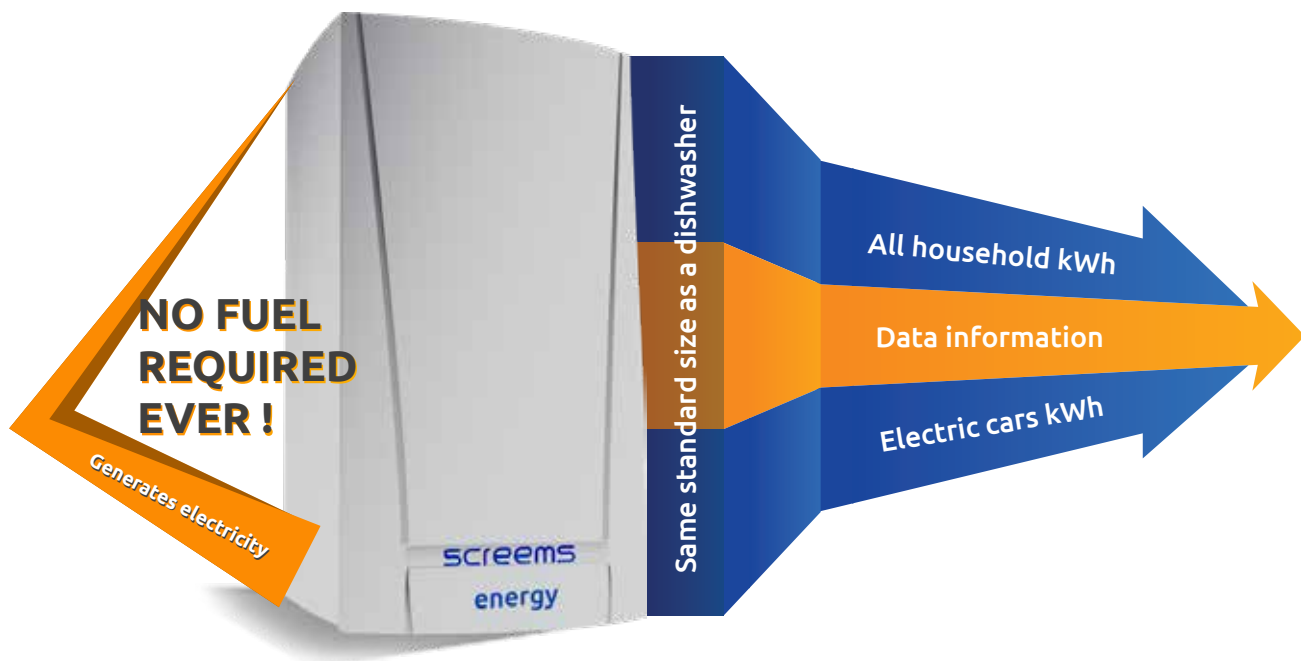
Announcement 1st June 2018

Ground breaking, unique **screems energy** technology promises global energy industry disruption.

It has finally happened! Electricity generation **without the consumption of any fuels whatsoever**. This one technology **will eliminate & dismantle** the old world's heavy industrial National gas & electricity Grids!

Every household and SME can now generate their own electricity inhouse and be disconnected from the nation Grid not needing any supply of electricity or gas (nor oil, or anything, not even solar or wind).

Introducing MAPS^{ELS} MKII Fuel-less Device



IM extracted **Fig. 1: MAPS^{ELS} MKII** – 100% electricity generation without consuming fossil or other fuels!

All electricity produced by **MAPS^{ELS} MKII Devices** would only cost consumers 8¢ per kWh, the retail cost to Western countries, which, at that price, can subsidise the LDCs and poor to attain their first use of electricity. There is no purchase price to pay (installed free in homes & SME), no installation, no service or maintenance charges, not even call-out charges, just the consumption of electricity at 8¢ per kWh.

Think of it, no need for a national Grid to homes and SME. Imagine the national savings to tax payers?

Nations before and after **screems energy**

Nations will **not** need to spend the IEA projection of between \$23 – 44 Trillion to upgrade their energy infrastructure, because households & SME (35+% of all energy consumed) wont need the old world's Grid.

A picture is worth a thousand words; see below; the product **before & after screems energy** ...



IM extracted **Fig. 2: Before** screems energy is available in the home.



IM extracted **Fig. 2: Before** screems energy is available in the home.

MAPS delivers screams energy^o

This is what is all about

A new major “**Whitegoods**” home & professional **Appliance, MAPS**, is to be offered in two models and in a scalable range of domestic household and professional appliances that generate **all** the energy in-house any home-household and SME, plus large enterprises, commerce and industry (collectively all together known as “**Dwellings**”, or “**2ndary Customers**” as consumers of $>110/120 - 220/240 < \text{VAC}$), will ever need.

MAPS generate the consumable **Product of electricity** recognised in units of **kWh** and **Hot Water** that is branded as **screams energy**.

There are 2 principal models for MAPS

Going into Pilot & Light Production this year, and through MAMI Licensees in 2019 to mass production, are:

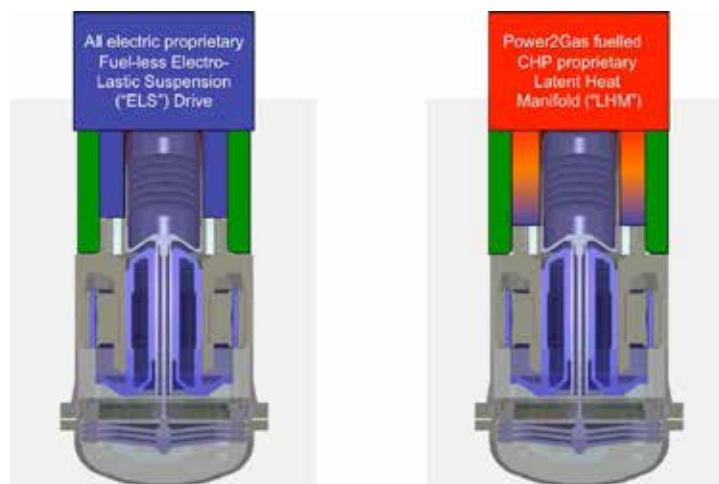
MAPS^{ELS} MKII:

- ⊕ The significant **USP** of **MAPS^{ELS} MKII** is that there are no consumable fuels required, at all, as this model produces / generates electricity only, and no useable heat by-product.
- ⊕ There is a technical overview on the underpinning Electro-Lastic Suspension©^o™ (“**ELS**”) technology in Addendum 11: of the IM.

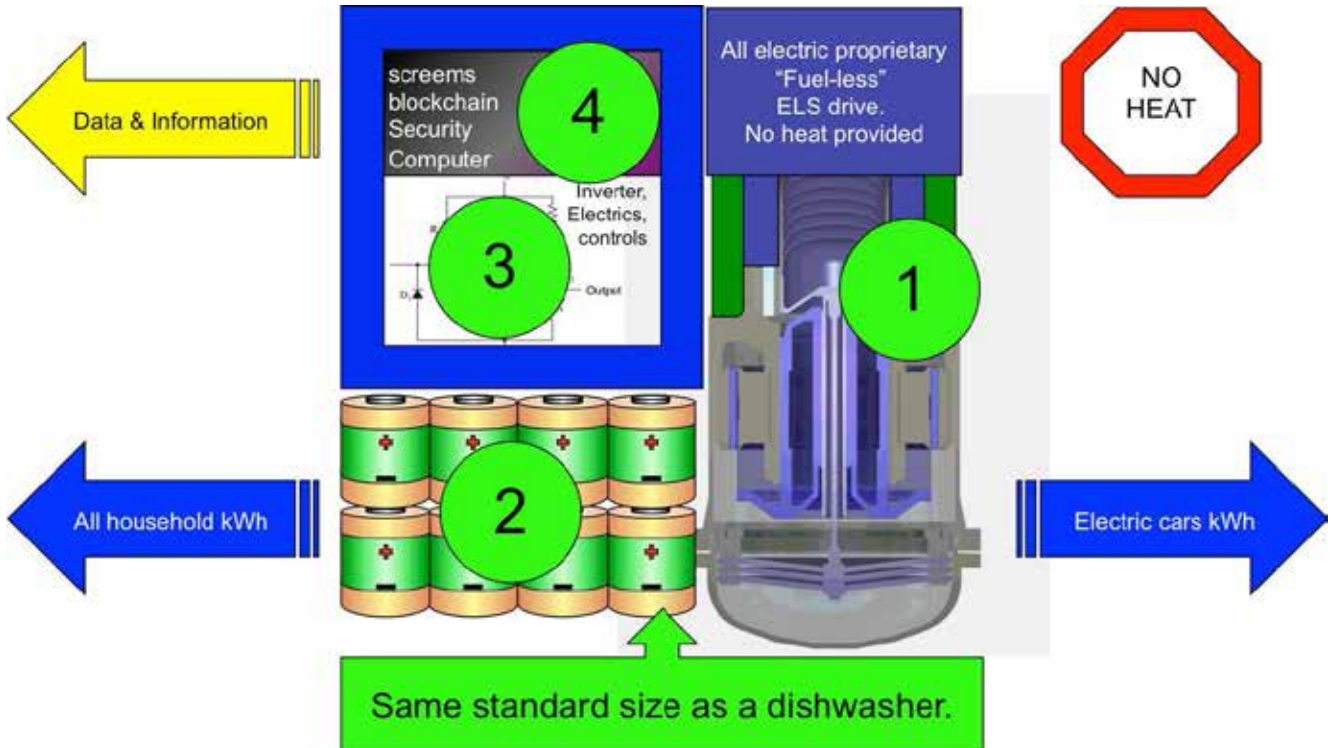
MAPS^{CHP} MKII:

- ⊕ The Combined Heat & Power (“**CHP**”) model provides **screams energy** in the forms of:
 - **Heat** for hot water for cooking, hygiene & space heating, plus
 - **Power** for electricity for all Dwelling needs and comforts
- ⊕ o For the Heat component, **MAPS^{CHP} MKII** requires the consumption of either (or a mix of):
 - **Biogas** regularly supplied and delivered by bottled cylinders (not via the National Grid), and / or,
 - **Power2Gas** a micro installation by **Screams Energy BV.**, that produces ZERO CO₂ gas from sunlight.

Inside MAPS MKII Devices are Stirling Engines:

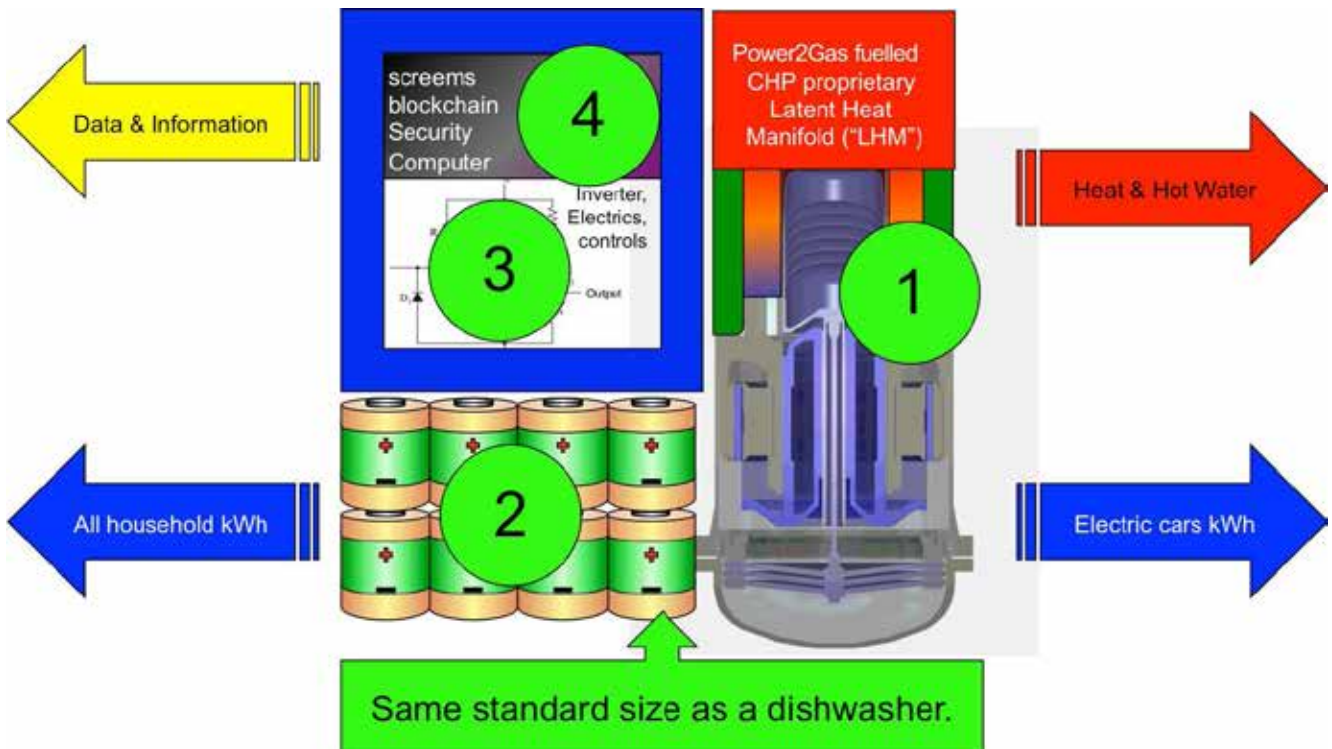


IM extracted **Fig. 9: Thermodynamic Heads to the two reciprocating versions of our Stirling Engine.**



IM extracted Fig. 10: The Device of MAPS^{ELS} MKII - 4 principal components, no plumbing required.

The below Fig. 11: MAPS^{CHP} MKII Devices are designed to fit into existing households, SME and offices that already have hot water space heating installed and don't want to change to full-electrics only. This is a flat market sector that will diminish overtime as countries abandon their gas supply Grids for new homes.



IM extracted Fig. 11: The Device of MAPS^{CHP} MKII - 4 principal components, plumbing required.

Off-Grid forever^o

No need to stay hooked to the electricity grid

MAPS enables all 2^{ndary} Customers to **disconnect** from their **national electricity supply Grid** and go Off-Grid forever providing energy security, without fear of national Grid power-outages, disruption from solar-flares, disruption from State sponsored digital viruses (an uneasy growing trend in military offensive strategies) or ever-increasing tariff & electricity kWh price hikes and rises.

Therein, the USP delivered via **MAPS** include; lowest cost electricity in the world with reduction of cost by 62.3% in USA, and 160% in EU (country averages), plus, for every kWh of **screems energy** consumed reduces global emissions from Grid supplied kWh to **zero**, delivering **passive Disruptive Innovation**.

The **MAPS** range will be launched in 10+ standard sizes (see Fig. 12: below depicting 3), with the typical self-contained, freestanding family home that comparably, is the size of a household laundry washer/dryer twin appliances set, as per the middle **MAPS** Device depicted.

This is the **MAPS** benchmark Appliance that delivers **60kWh** per day mean average (in 24 hours), and this **MAPS** benchmark supplies all the **screems energy** in the form of all electricity an average USA freestanding household 2^{ndary} Customer requires.

The smallest **MAPS** Appliance shown below, 24kWh a day, will probably be, in numbers required, the most popular and is positioned to match virtually any apartment, small home, small business, and can even be a preferred option to have, say, 7 – 8 X **MAPS** 24kWh Appliances in larger 2^{ndary} Customers, rather than one 180kWh± **MAPS** Appliance.

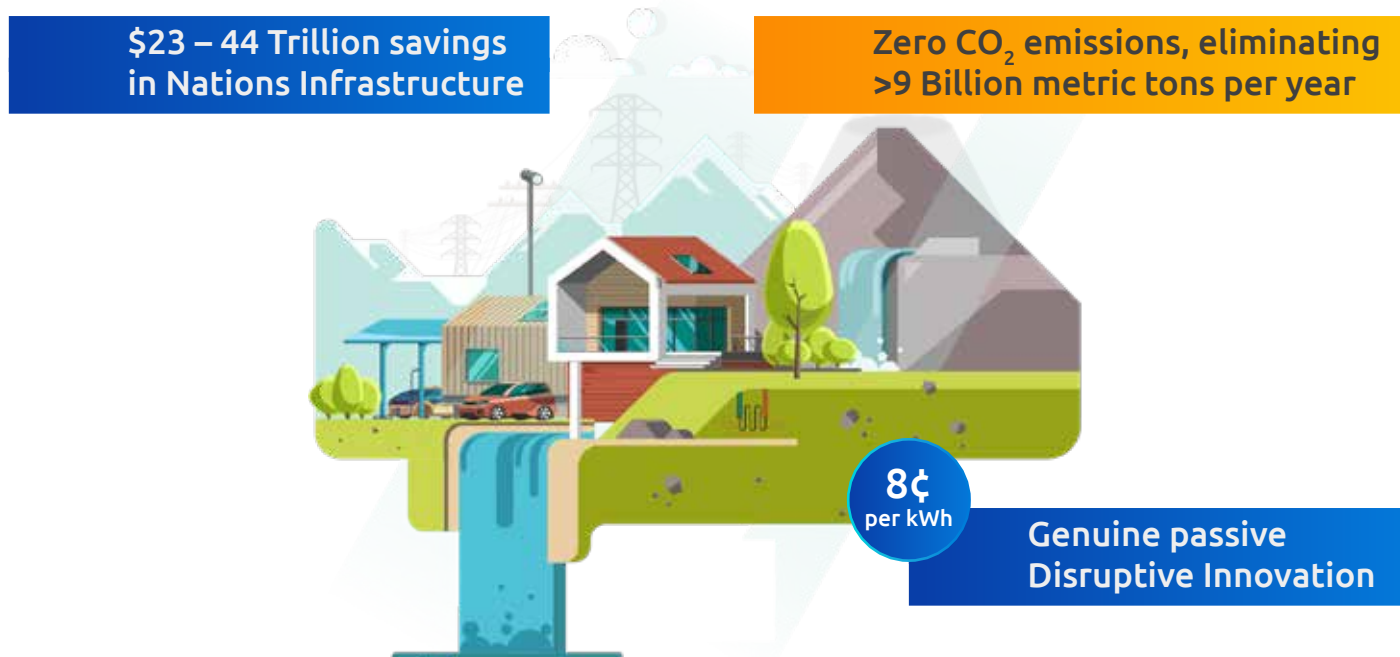
Many of these smaller 24kWh Appliances will be destined for Lesser Developed Countries ("**LDC**"). There are two larger standard sized **MAPS** Appliances not shown that are ideal in larger commercial offices, SME, light industry, and the like. They cater for up to 500kWh per day.



MAPS Devices are to be rented into households & SME for **8¢ per kWh** consumed, fixed for 10 years, with no other costs, **no** installation charges, **no** purchase outlay, **no** fuel costs, **no** maintenance costs, **no** up-grade costs and **no** "callout" emergency charges.

IM extracted **Fig. 12:** MAPS Devices match standard sizes of kitchen & laundry domestic home appliances

The **Screems Project** also believes it can solve the unbridgeable problems in climate talks and thus support lesser-developed countries in their development and reduce CO₂ emissions. If all countries changed, this would potentially result in savings the global community of \$23 – 44 Trillion. This amount is deemed necessary to be spent for the Paris Climate Change Agreement to reach the emission targets for the future, according to the IEA's Energy Outlook report, 2016.



IM extracted **Fig. 8: The USP** the world will gain by a wide implementation of **MAPS^{ELS} screems energy**.

The global electricity outlook and the screems energy target market expectation

Detailed global electricity information is extracted from the International Energy Agency (“**iea**”) World Energy Outlook 2016, annual report, in TeraWatt hours (“**TWh**”) consumed.

screems energy target market in TWh	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Global Electricity Market in TWh consumption	22'746	23'201	23'650	24'123	24'605	25'098
Global average cost of consumer Tariffs per kWh	0.1250 €	0.1268 €	0.1287 €	0.1307 €	0.1326 €	0.1346 €
Global consumer average cost - Billions EUR	2'842 €	2'942 €	3'044 €	3'152 €	3'263 €	3'378 €
screems energy consumer price per kWh	0.08 €	0.08 €	0.08 €	0.08 €	0.08 €	0.08 €
Theoretical cost if screems energy replaced all - Billions €	1'817 €	1'853 €	1'889 €	1'927 €	1'966 €	2'005 €
World saving "if" all was screems energy - Billions €.	1'024 €	1'088 €	1'154 €	1'224 €	1'297 €	1'373 €
Share screems energy Targets to obtain in % of TWh	0.012%	0.545%	1.604%	1.816%	2.035%	2.494%
Total screems energy revenue expectation - Millions €.	225 €	10'331 €	40'649 €	75'663 €	115'679 €	165'699 €
Total screems energy revenue expectation - Billions €.	0.225 €	10.33 €	40.65 €	75.67 €	115.68 €	165.70 €

screems energy = Sustainable Chain Reaction Electrical Energy Management System

^ **TWh** = Terawatt hours, 1 Terawatt/hour (“**TWh**”) = 1,000,000,000 kilowatt hours (“**kWh**”) (1 TWh = one Billion kWh). 1kWh = 1,000 Watt/hours.

Management

Professional and expert in their fields

The Management Organisation:

See Section 16., of the IM, Management is organised to cause deliverables to be the priority and is structured, not only for the best fiscal regime, but also into Competence Centres to guarantee the focus of the deliverables required to meet the business plan targets.

Some 65 personnel who are all identified to be selected and hired for a career into the future with clean **screems energy** and eventing **screems blockchain** technologies that includes, but is not limited to; scientists, IT specialists, materials engineers, chemist engineers, software engineers, IoT & firmware engineers, CAD, FEM Thermal & Fluid Dynamics scientists, electronics & semiconductor designers & engineers, mechanical & electrical engineers, Product managers, marketing & sales teams, black-works supercomputer boffins, telecommunications designers & product experts, plus management, HR, CTO, PR, IT enterprise architects, web & social media boffins and artists, administration and more,. See **Addendum 4** of the IM.

The **Screems Project** will be putting together the various country Teams to install, service and support the global introduction and rollout of **screems energy** and **screems blockchain** apps.

Turnkey Project Management:

We're not done yet with our expert management story, the *pièce De Résistance* is that the **Screems Project** has secured top-draw industry expertise as the Turnkey Project Managers, including:





Ralf Kalmbach

Turnkey Project Manager for the Screems Project

Ralf Kalmbach is appointed director and global co-head of the Automotive Practice Group at Bain & Company – Ralf was previously a Partner - ATKe- arney GmbH, D-Munich (“ATK”) Partner-in-charge of the **Screems Project**: Ralf Kalmbach, MD and Head of Global Automotive

International automotive industry expert Ralf Kalmbach joins management-consulting firm Bain & Company as of 1 September 2017. The proven expert with extensive international experience in the automotive industry will co-head the firm’s global Automotive Practice Group together with Bain partner Dr. Klaus Stricker. He will be based in Munich.

Kalmbach has more than 30 years of experience in the international automotive industry, advising car-makers as well as suppliers throughout the world. He focuses primarily on brand and technology strategies, vehicle architecture and modularization strategies, company organization as well as M&A projects.

He believes that product quality and brand reputation are no longer the unique selling points of the automotive industry. “Going forward, it will be crucial for carmakers to convince customers on the basis of new drive technologies, autonomous and partially-autonomous driving systems and digital innovation,” said Kalmbach. “The major automobile companies must win back their former leadership in innovation amid these new market conditions. Acquisitions of technology specialists can also serve to strengthen their own position.”

Before joining Bain, Kalmbach where he was a global leader in the automotive sectors for two other consulting firms. He began his career as an engineer at Daimler AG.

Kalmbach, who studied industrial engineering at the University of Karlsruhe, is author and editor of several specialist books such as Brand Management in Automotive and Successful in China.



Bernhard Biermann

Director FEV GmbH (“FEV”), Lead for the Turnkey engineering partnership for the Screems Project

Prof Bernhard Biermann Senior Director Business Development Europe / Chairman of the Board of Directors FEV UK Ltd - FEV GmbH, Senior Director Business Development Europe & Chairman of the Board of Directors FEV UK Ltd. His professional profile contains:

- ➔ 7 years business development Europe with focus on UK and Scandinavian as well as commercial, industrial & large engines customers
- ➔ 8 years of experience with testing solutions in the fields of program management, project planning, production, sales & marketing

- ➔ 9 years of engineering expertise in gasoline thermodynamics and benchmarking, project management.
- ➔ 4 years student worker in the fields of diesel after-treatment, design & optical combustion assessment.
- ➔ Education - Diploma Degree TH (Mech. Eng.) 1987, RWTH Aachen University.



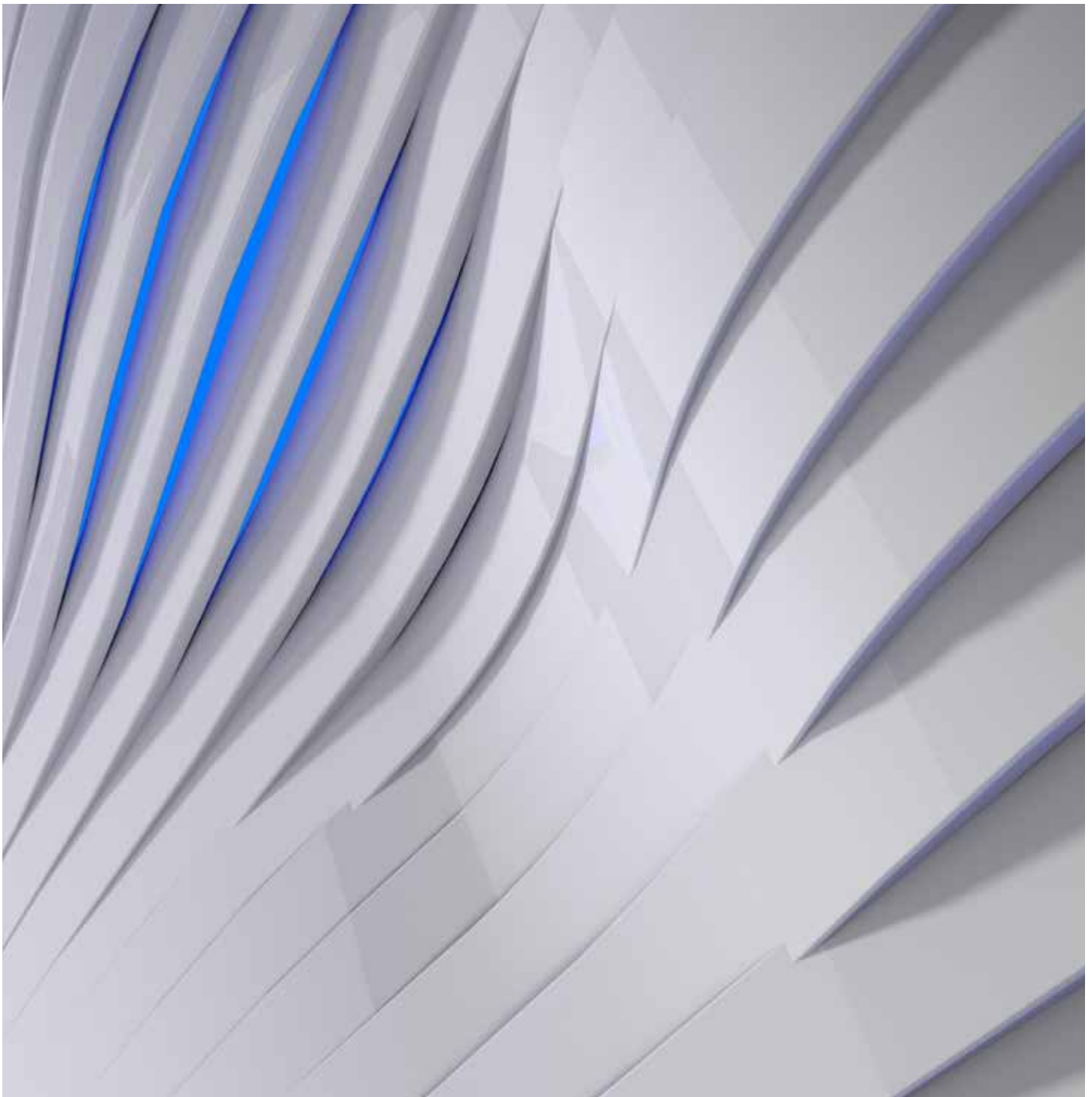
FEV GmbH, D-Aachen ("FEV")

www.fev.com

Turnkey Engineering Alliance Partners

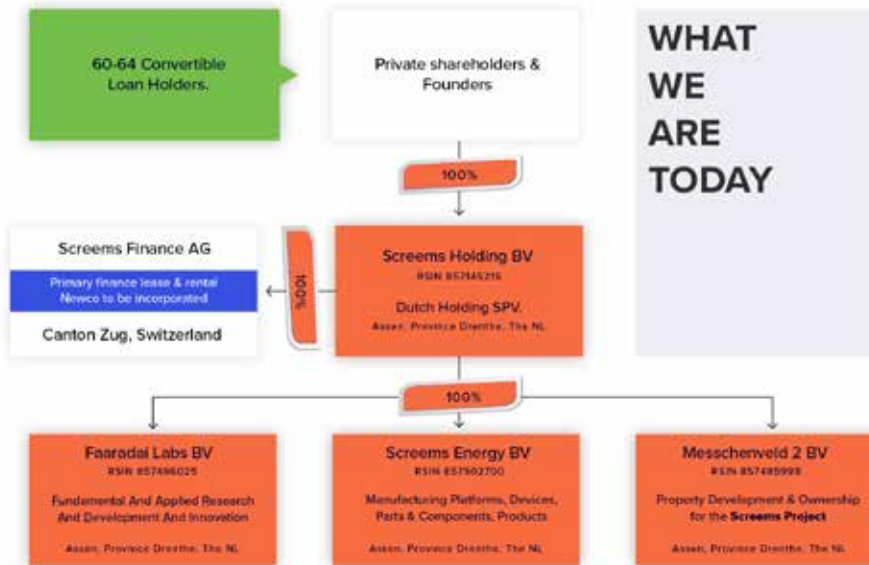
In-charge of the **Screems Project** and reporting to Ralf Kalmbach: Dr.-ing. Norbert W. Alt, Chairman of the Executive Board of **FEV** Europe GmbH, responsible for **FEV**'s European operations.

<http://www.fev.com/en/who-we-are/management.html> to whom Bernhard reports directly.



The enterprise

the **Screems Project** structure today and tomorrow

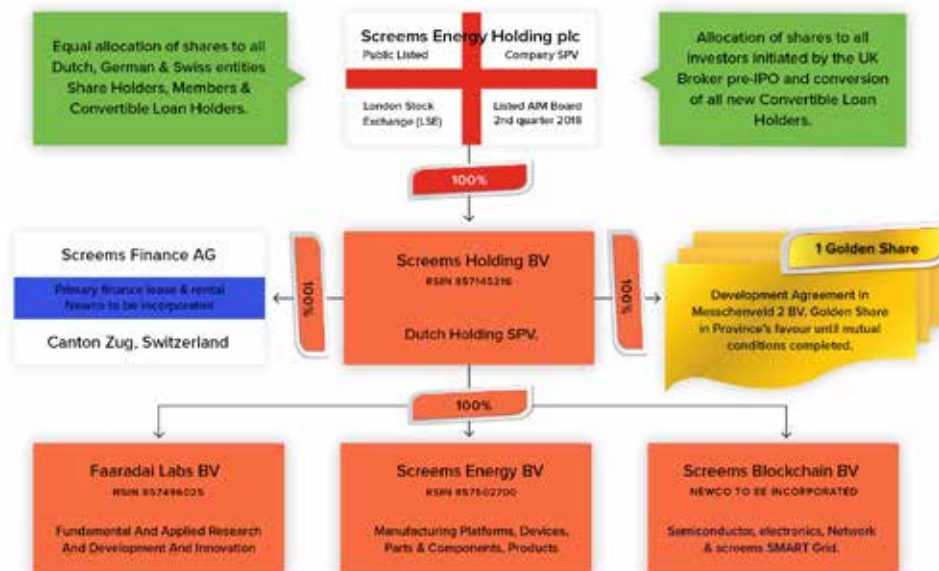


IM extracted **Fig. 41**: In the Whitepaper, the incorporated **Screems Project** structure today.

The **Screems Project** must gain access to the public financial markets so that they do not need to rely on private capital, that always comes with “self-interest” conditions, such as one big partner like a major appliance manufacturer, whose self-interest is **MAPS** for their Whitegoods Brands and not the competitors, therein dramatically limiting **MAPS** ability to provide **Disruptive Innovation** to the global marketplace.

The structured financial objective now is to prepare the **Screems Project** for listing and floatation as an Initial Public Offering (“**IPO**”) on the London Stock Exchange’s (“**LSE**”) Alternative Investment Market (“**AIM**”) Board by late 2018, this year.

The plan is to launch the **IPO** on the **LSE AIM** Board by late 2018, structured thus:



IM extracted **Fig. 32 & 42**: In the Whitepaper, the planned **Screems Project** the LSE AIM IPO.

ENDNOTES

¹ **Household & SME consumption of all energy in world = 35%+** <https://www.eea.europa.eu/data-and-maps/indicators/final-energy-consumption-by-sector-9/assessment-1>

² **Secondary Customers (“2ndary Customers”)** refers to the type of customer identified by the current electricity suppliers who denote major electricity users, like heavy manufacturing, as Primary Customers, and secondary customers as households, small and commercial businesses et al.

³ **FEV GmbH** (formerly FEV Engine Technology GmbH) is one of the world’s largest independent development service providers in the development of engines and vehicle technology with headquarters in Aachen. They designed and developed engines for appliances, cars and commercial vehicles, but also for ships and locomotives - from the sketch to the start of series production. In addition, the company manufactures and operates measuring and test beds that allow engines and vehicles for durability, acoustics and emissions are tested.

⁴ **Quoting verbatim:** Quoting verbatim: “The Dutch Authority for the Financial Markets (AFM) has been responsible for supervising the operation of the financial markets since 1 March 2002. This means that AFM supervises the conduct of the entire financial market sector: savings, investment, insurance, loans, pensions, capital markets, asset management, accountancy and financial reporting. The AFM is committed to promoting fair and transparent financial markets. As an independent market conduct authority, we contribute to a sustainable financial system and prosperity in the Netherlands.” See <https://www.afm.nl/en/over-afm>

www.screems.com

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