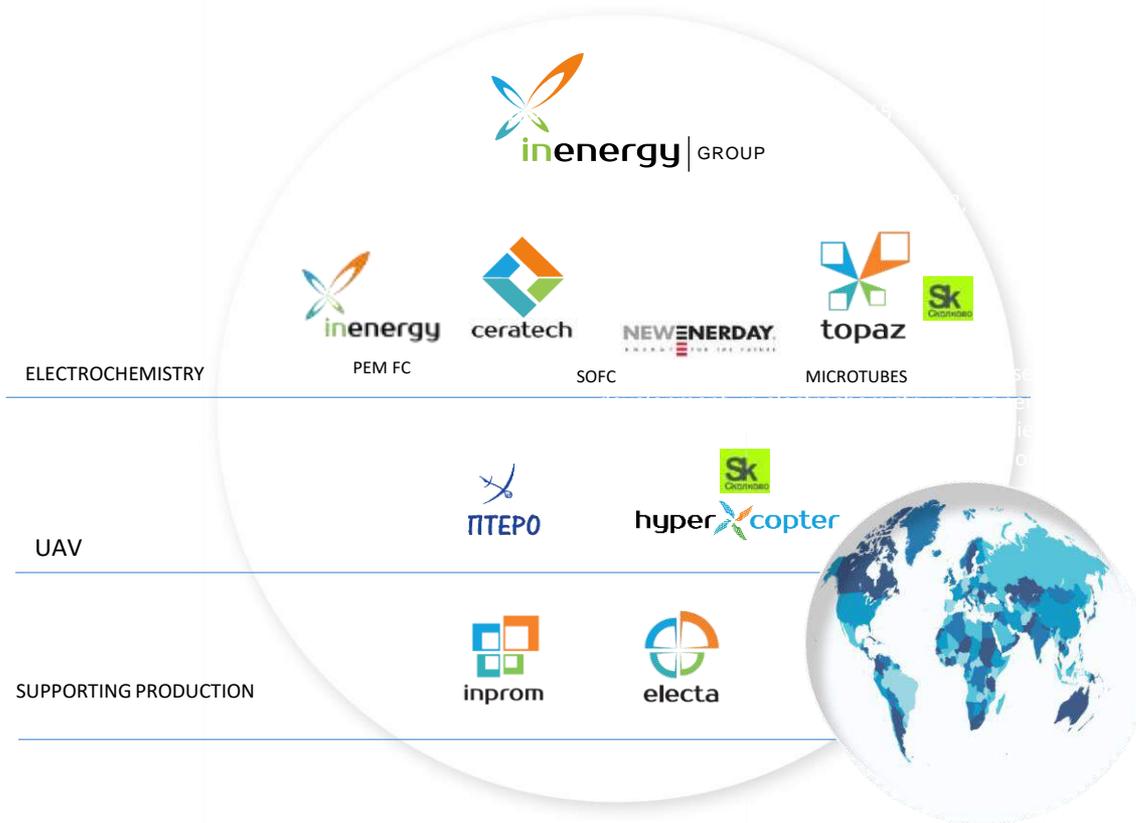


INENERGY GROUP PRESENTATION





WHAT MAKES OUR COMPANY SO UNIQUE?

We have 8 companies in our portfolio covering a full value-add chain – from raw material via research and development, design and production to full turn-key-solutions

We have one-of-kind Research and Development Center with 63 experts in electrochemistry field. 15 of them are researchers holding Ph. Degrees

We have 12 000 m² of production facilities and own a Technology and Research Park, which brings together innovative enterprises in a single location

We have created a unique scientific ‘powerhouse’ where the Russian electrochemical scientific community for fuel cell technology comes into close partnership with a business community, thus paving the way for new innovative energy markets

We are the driving force for the new energy era in Russian political arena

We have the potential to reach a target price of 100 USD per kW for 100 kW PEMFC by 2020





OUR MISSION



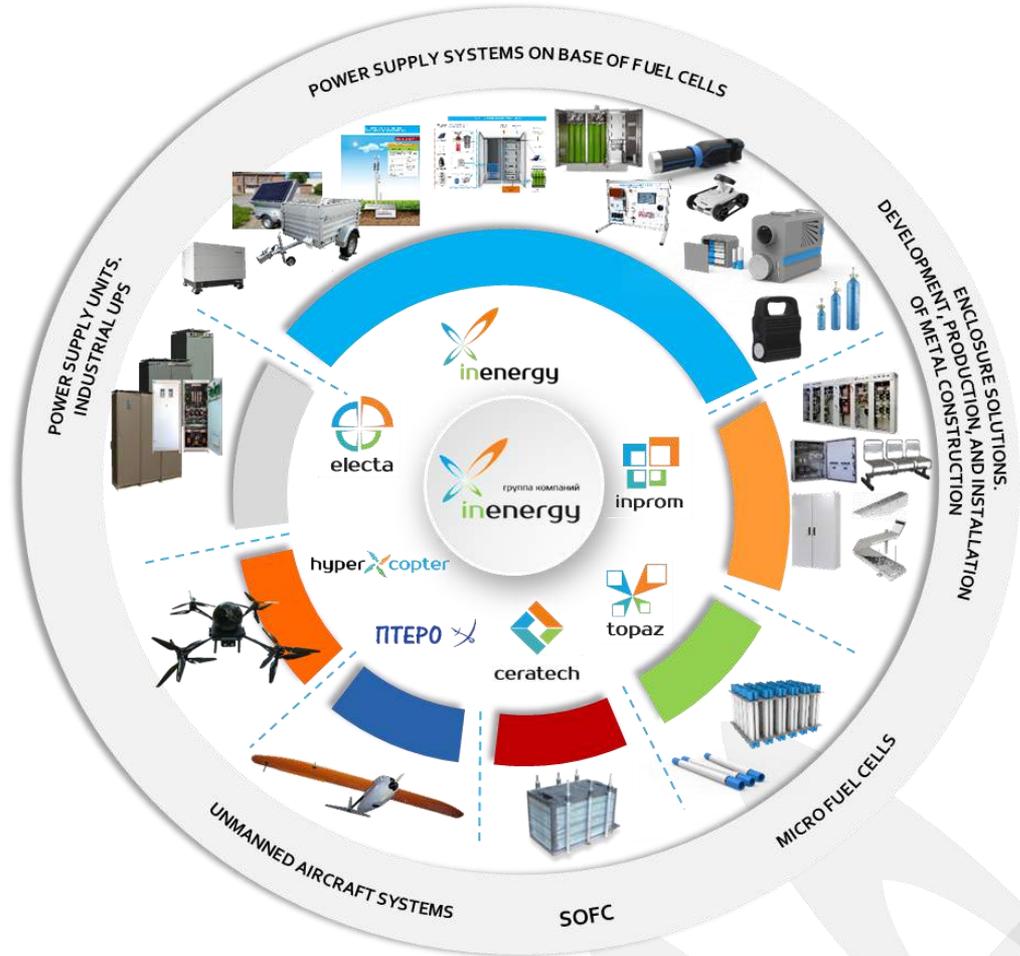
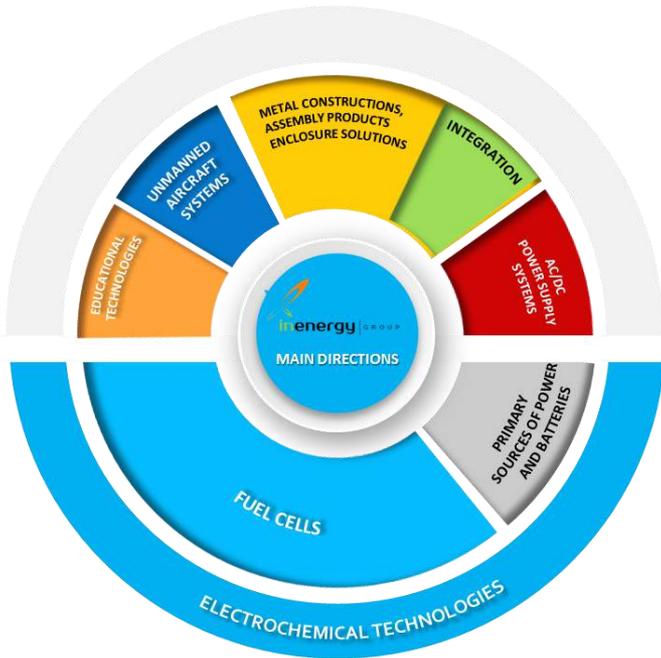
- ❖ Making a difference with electrochemical technologies and shifting the economy to the new energy era

OUR VISION

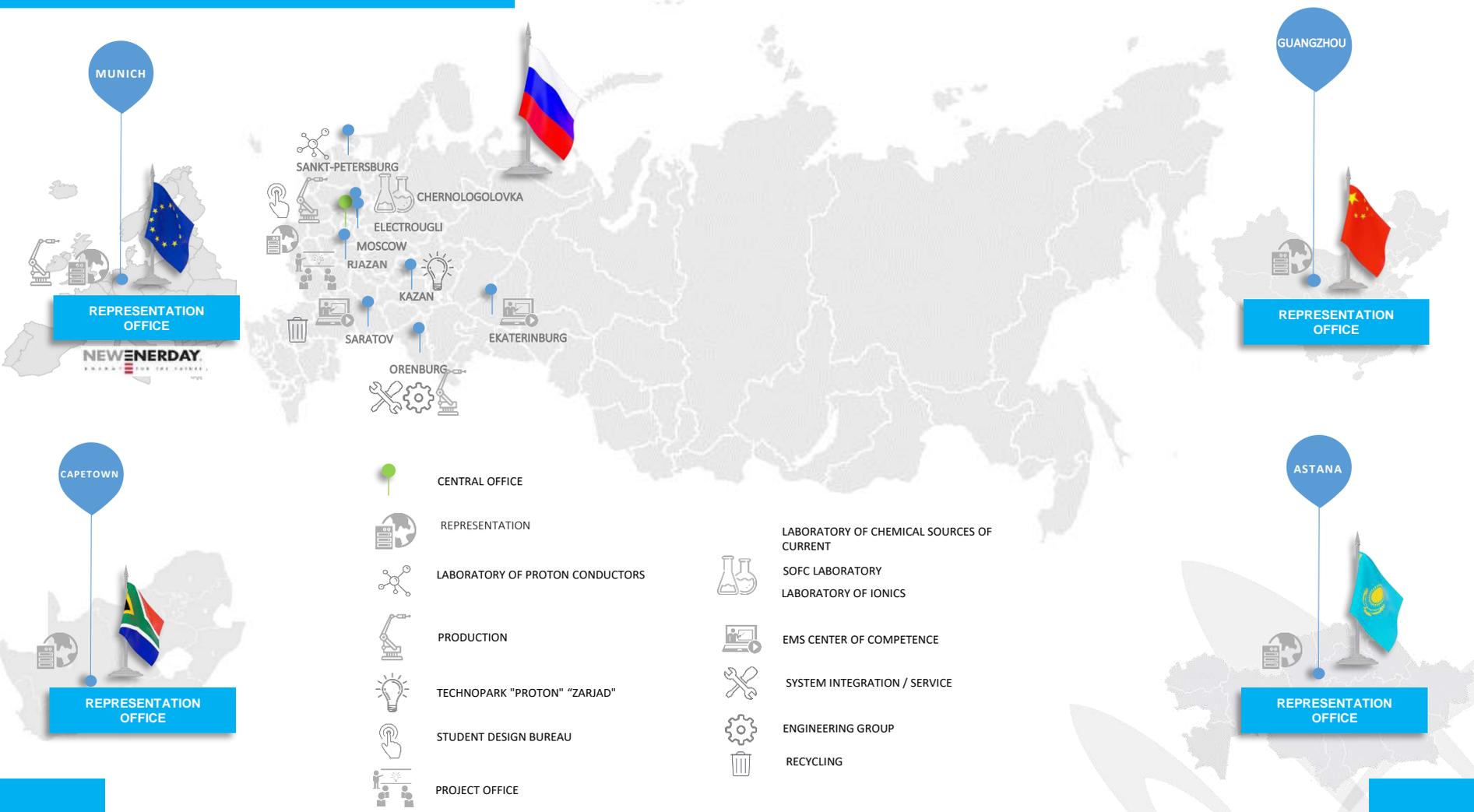
- ❖ Is to bring in a new energy era by creating an interface between a fundamental science and a product manufacturing process through engineering by introducing a unique anthropology-based business model. This is what sets us apart.
- ❖ Is to offer today tomorrow's products and solutions with a *day-after-tomorrow price!*

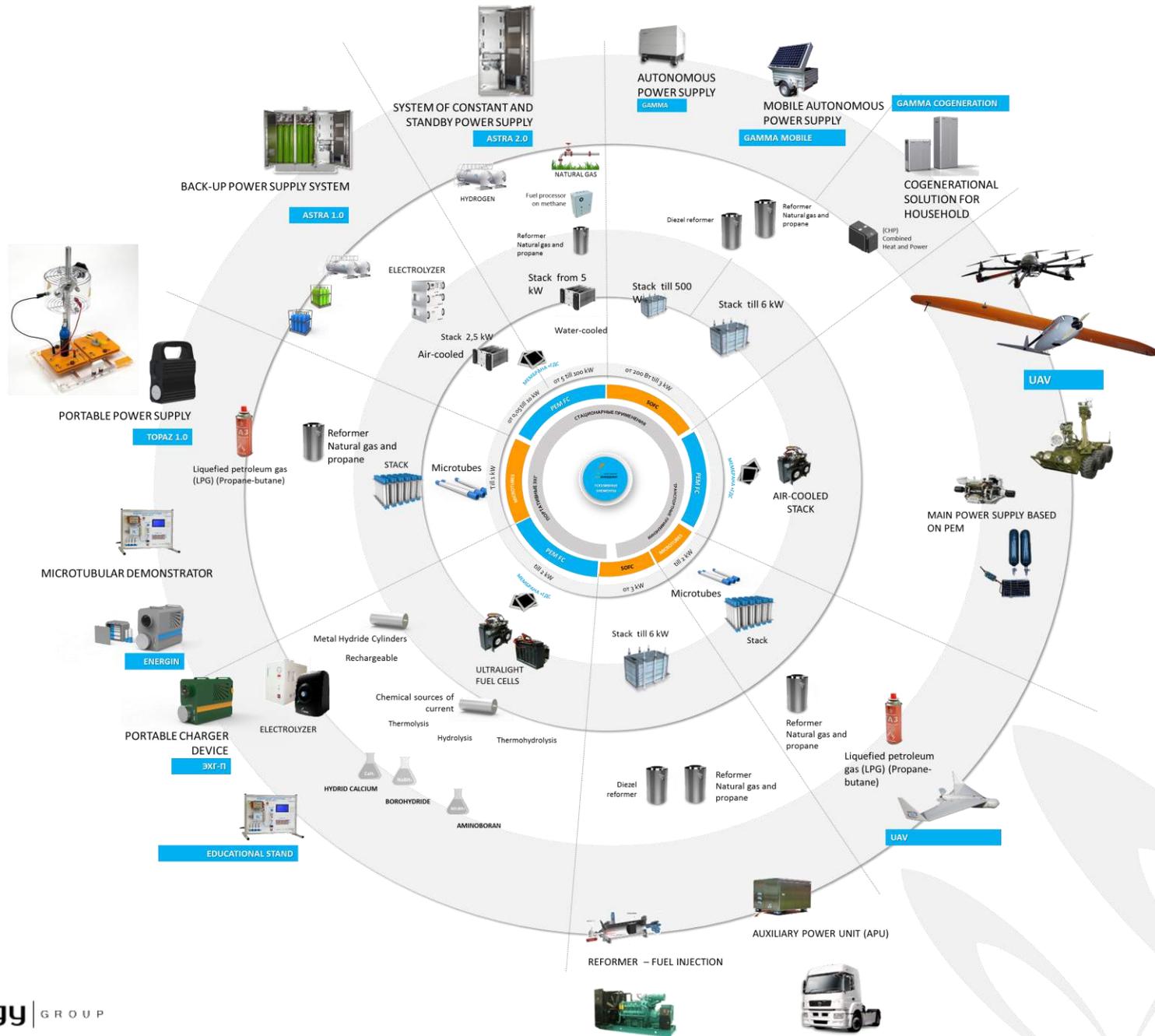


INENERGY GROUP - LEADER IN ELECTROCHEMICAL TECHNOLOGIES AND POWER SUPPLY SYSTEMS

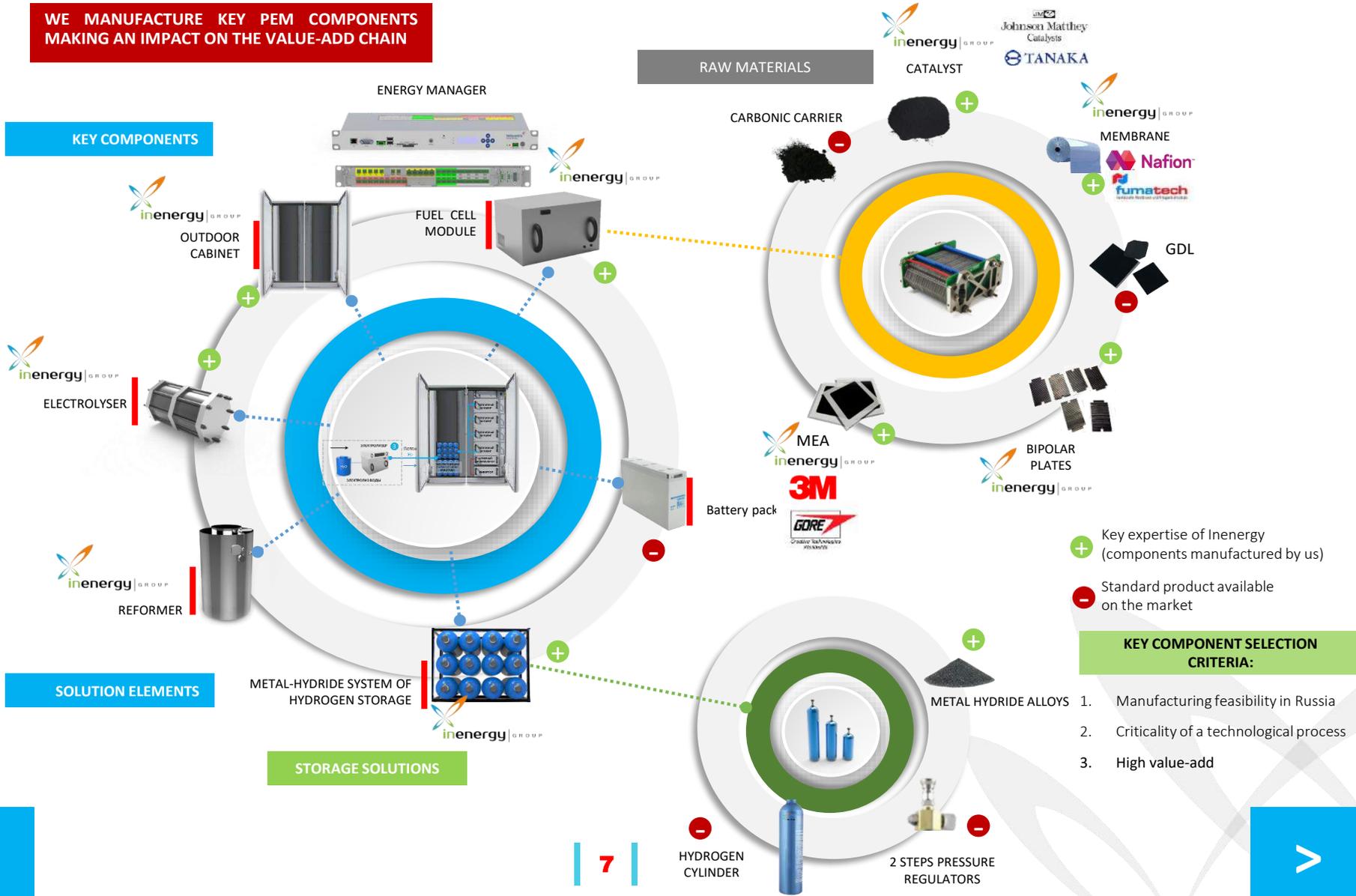


REPRESENTATIVE OFFICES, LABORATORIES AND PRODUCTION FACILITIES

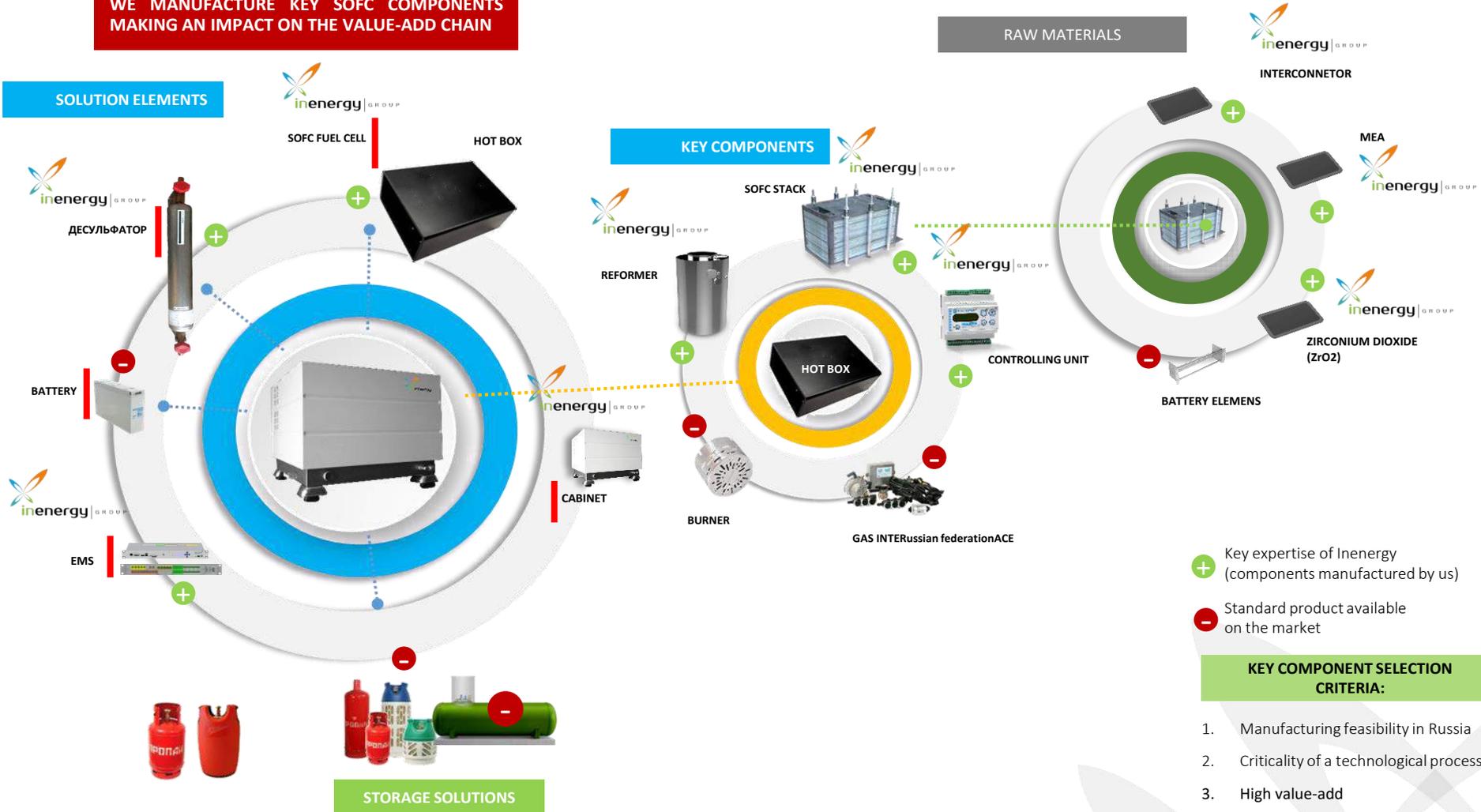




WE MANUFACTURE KEY PEM COMPONENTS MAKING AN IMPACT ON THE VALUE-ADD CHAIN



WE MANUFACTURE KEY SOFC COMPONENTS MAKING AN IMPACT ON THE VALUE-ADD CHAIN

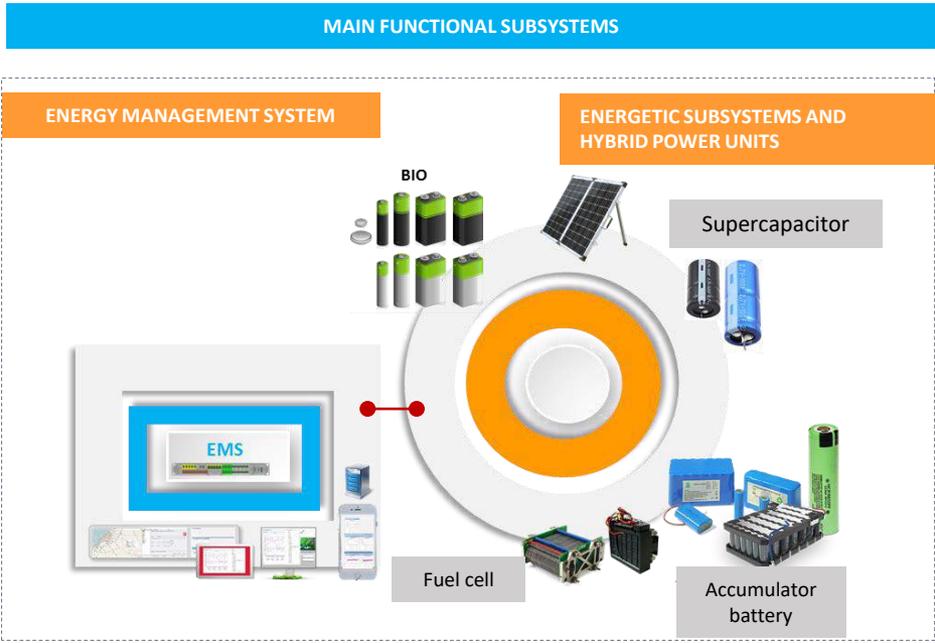


- + Key expertise of Inenergy (components manufactured by us)
- Standard product available on the market

KEY COMPONENT SELECTION CRITERIA:

1. Manufacturing feasibility in Russia
2. Criticality of a technological process
3. High value-add





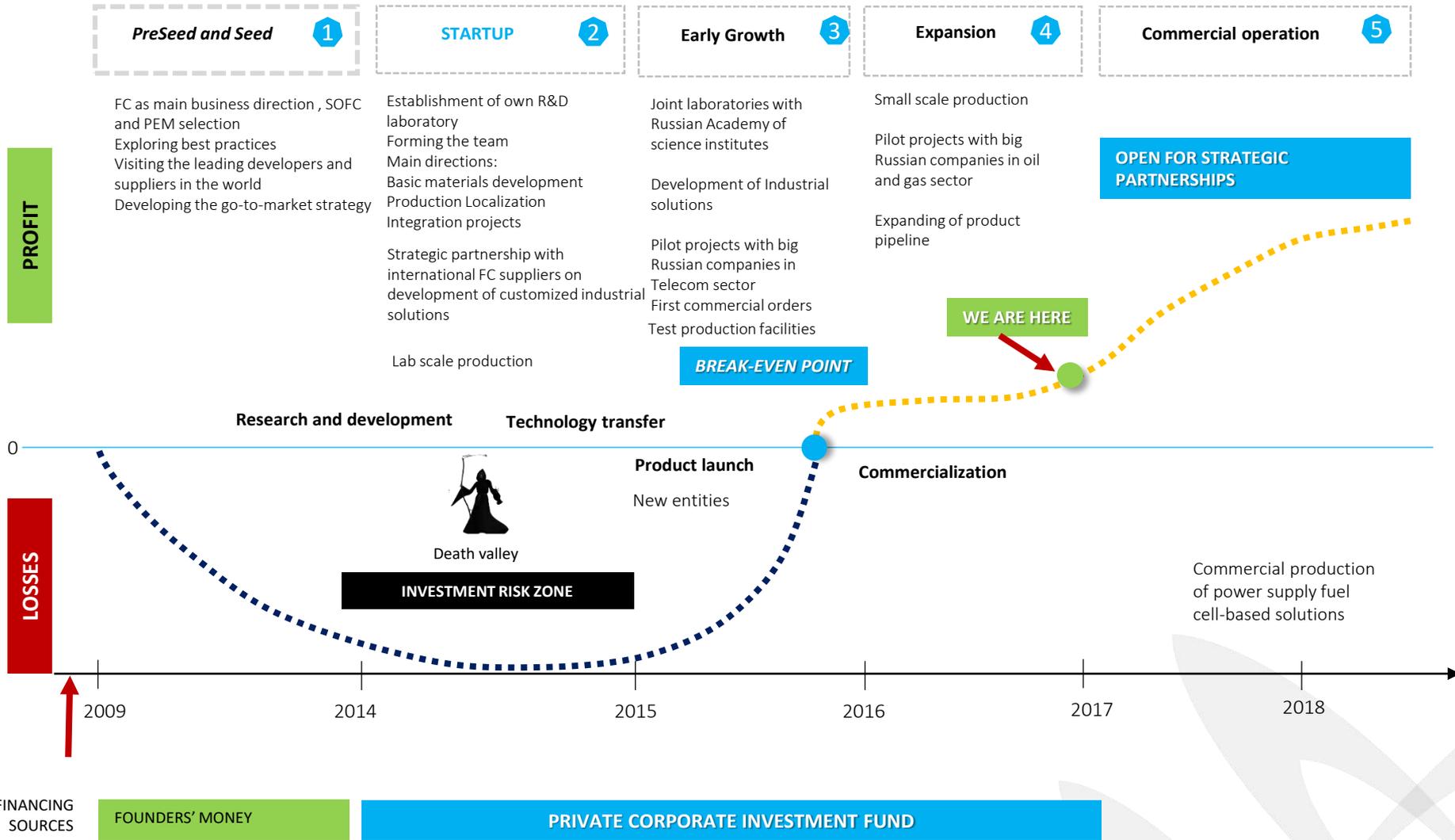
**MAN-PORTABLE POWER SYSTEMS.
INTERCOMPATIBLE SYSTEMS**



**POWER SYSTEMS FOR TRANSPORT
AND AVIATION**

**OVERALL OPERATIONAL SYSTEM FOR MEDIUM-POWERED ELECTRIC UNIT
(ADDITIONAL POWER SYSTEMS FOR DRONS AND ROBOTS)**





POWER RANGE AND AREA OF OPERATION DEVIDED BY POWER SUPPLY TYPE

MICRO		MIDI	MACRO	GIGA
Up to 10 W	10 W – 100 W	100 W - 10 kW	10 kW - 100 kW	More than 100 kW
Portable generator for personal medical devices, stimulants, electronic implants	Portable generator for personal electronic devices and gadgets	Autonomous low power supply for unmanned flying vehicles, robots and other similar type systems for different purposes	Basic power systems for commercial and personal use. Also suitable for unmanned flying vehicle and robotized transport systems. Assisting power systems for transport	Power systems for heavy-duty vehicle and large-capacity transport

PORTABLE MARKET < 100 W



PORTABLE DEVICES MARKET VOLUME BY 2020:
Worldwide - **865 bln. \$**
Russian federation - **25 bln. \$**

POWER SUPPLY MARKET VOLUME:
Мировой - **11 bln.\$**
Russian federation - **330 mil.\$**

TARGET MARKET SHARE:
Worldwide - **10%**
Russian federation - **50%**

AUTONOMOUS MARKET 100W – 10 kW



UAV AND ROBOTICS MARKET VOLUME BY 2020:
Worldwide - **29 bln. \$**
Russian federation - **750 mil.\$**

POWER SUPPLY MARKET VOLUME:
Worldwide - **5 bln.\$**
Russian federation - **230 mil. \$**

TARGET MARKET SHARE:
Worldwide - **30%**
Russian federation - **60%**

TRANSPORT MARKET 5-100 kW

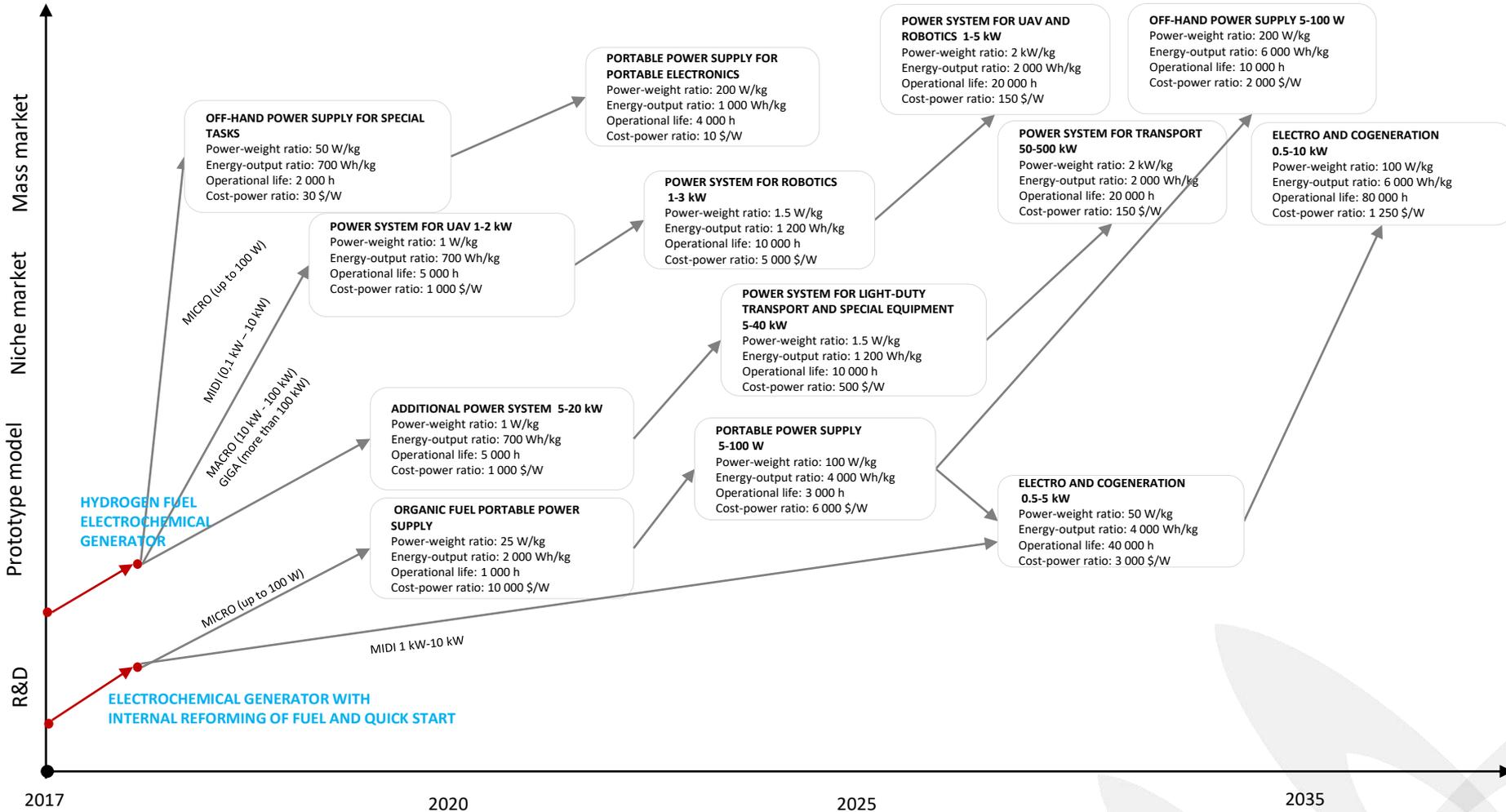


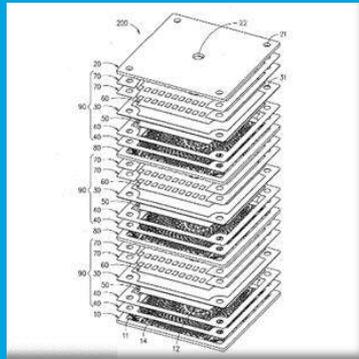
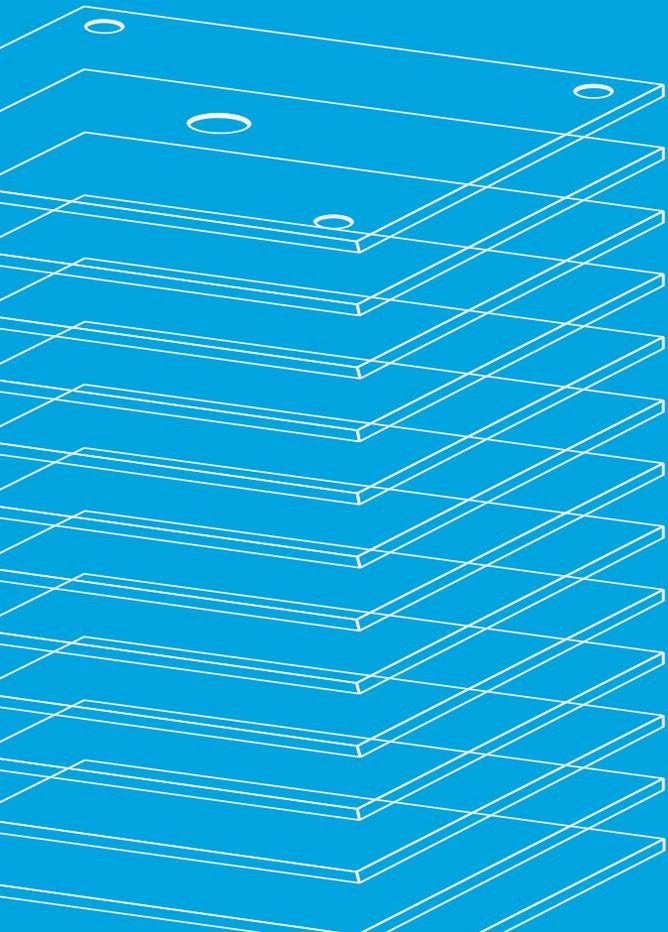
LIGHT-DUTY TRANSPORT MARKET VOLUME BY 2020:
Worldwide - **100 bln. \$**
Russian federation - **2 bln.\$**

POWER SUPPLY MARKET VOLUME:
Worldwide - **37 bln. \$**
Russian federation - **340 mil. \$**

TARGET MARKET SHARE:
Worldwide - **5%**
Russian federation - **25%**







BACK-UP

OUR GOAL:

- CUSTOMIZATION
- MOBILITY
- DECENTRALISATION

this set is valid for each scientific and technological branch: IT, healthcare, energetics, transportation ...

WORLDWIDE TRENDS:

- ❖ Easy and cheap scaling
- ❖ High energy conversion rating existing energy to electricity
- ❖ High specific characteristics
- ❖ High reliability and ecological compatibility

Must have the highest priority during steps of development and mass production of mobile power supply

MOBILE POWER SUPPLY

(Color mark - promising solution)

PHYSICAL

CHEMICAL

BIOLOGICAL

- Mechanical conversion of energy (wind, wave and moving)
- **PV (photovoltaic) converter**
- Thermoelectric
- Thermal emission
- Radioactive thermoelectric generator

- **Supercapacitor (ionistor)**

- Battery
- **Accumulator battery**
- **FUEL CELL**
- Flow battery

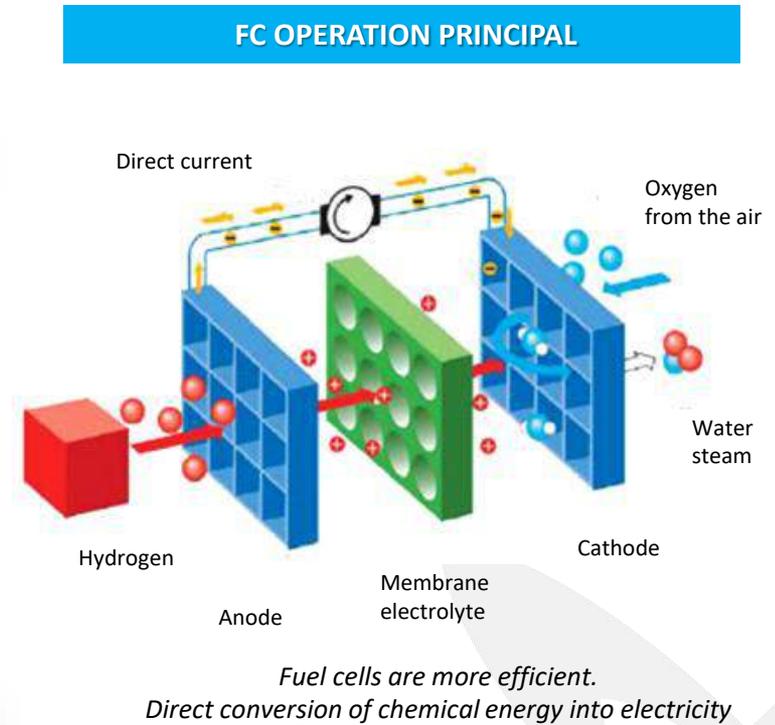
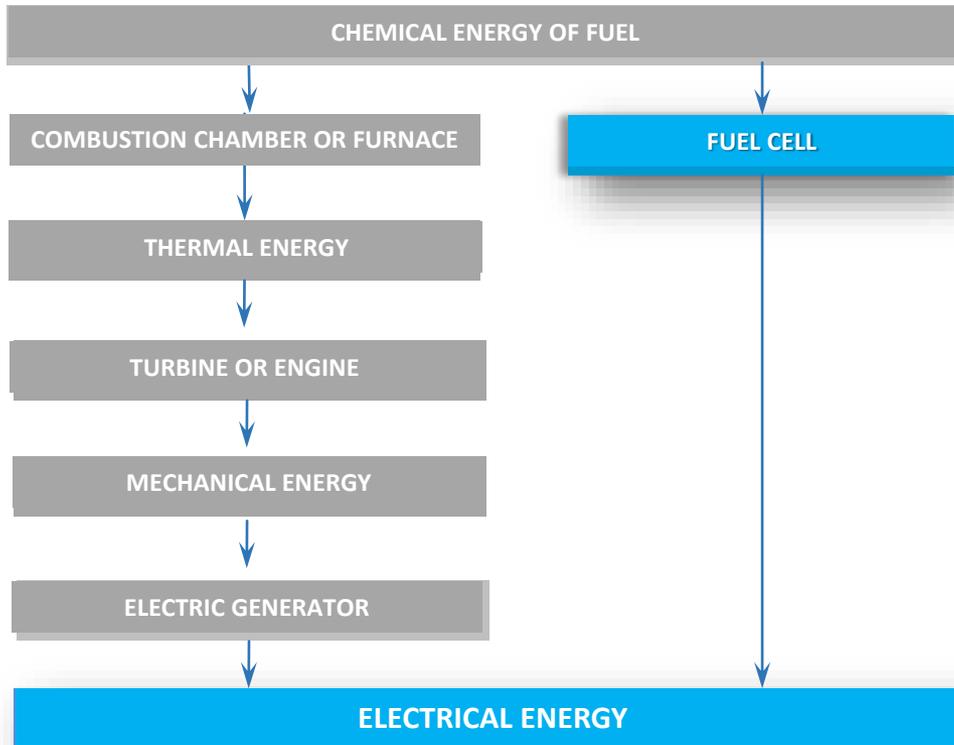
- Enzymic power source
- Waste products power source

- **Microbiological power source**

- Enzymic power source
- Waste products power source

FUEL CELL (FC) – device directly converting chemical energy into electrical energy

Currently, the vast majority of electricity is generated using thermal energy produced by burning fuel. This approach has certain limitations due to the efficiency of the intermediate stages of generation. Fuel cells produce electricity directly.



CLASSIC SYSTEM ON INTERNAL COMBUSTION ENGINE (ICE)



- ◆ LIMITED LIFETIME
- ◆ COMPLICATED DESIGN
- ◆ HIGH MAINTENANCE COSTS
- ◆ MAXIMUM EFFICIENCY ALMOST REACHED
- ◆ ENVIRONMENTALITY POOR
- ◆ PRONOUNCED THERMAL FOOTPRINT AND NOISE
- ◆ SCALABILITY LIMITATIONS



FUEL CELLS SYSTEM



- ◆ SPECIFIC ENERGY DENSITY OF SYSTEMS BASED ON FC IS MANY TIMES LARGER THAN THE ENERGY INTENSITY OF ANY STORAGE BATTERIES. THIS ADVANTAGE ALLOWS TO REDUCE THE WEIGHT OF THE POWER SUPPLY SUBSYSTEM BY 1.5-5 TIMES
- ◆ SIMPLICITY OF CONSTRUCTION. NO MOVING AND RUBBING PARTS, LUBRICATION SYSTEMS. OPPORTUNITY TO OPERATE IN UNATTENDED MODE
- ◆ POWER AND CAPACITY OF THE SYSTEMS ARE SEPARATED, WHICH ALLOWS TO FLEXIBLY SCALE ONE OR ANOTHER PARAMETER SEPARATELY, DEPENDING ON THE PURPOSE OF THE SYSTEM, AND THUS ENSURE THE FORMATION OF A WIDE RANGE OF PRODUCT LINES IN TERMS OF CAPACITY AND ENERGY INTENSITY. HIGH UNIFICATION POTENTIAL
- ◆ ENERGY INTENSITY DOES NOT DEPEND ON THE AMBIENT TEMPERATURE
- ◆ WEAK HEAT TRACE AND LOW NOISE LEVEL IN COMPARISON WITH ICE
- ◆ ABSENCE OF SELF-DISCHARGE AND "MEMORY EFFECT". NO NEED FOR PREVENTIVE REPLACEMENT
- ◆ ECOLOGICAL COMPATIBILITY

LI-ION BATTERIES



- ◆ POWER AND CAPACITY IN ONE BOX
- ◆ TODAY'S LIMIT 250 wh/kg
- ◆ SAFETY
- ◆ NARROW CLIMATIC RANGE
- ◆ LIFETIME LIMITED



2015: - more than 550 000 EV sold per year worldwide;
 - total number of EV around 1 260 000 ;
 - registered car: + 70% compare to 2014

EV TYPE

HYBRID ELECTRIC VEHICLE (Accumulator and ICE)

- + universality
- system complexity, low cruising range on accumulator

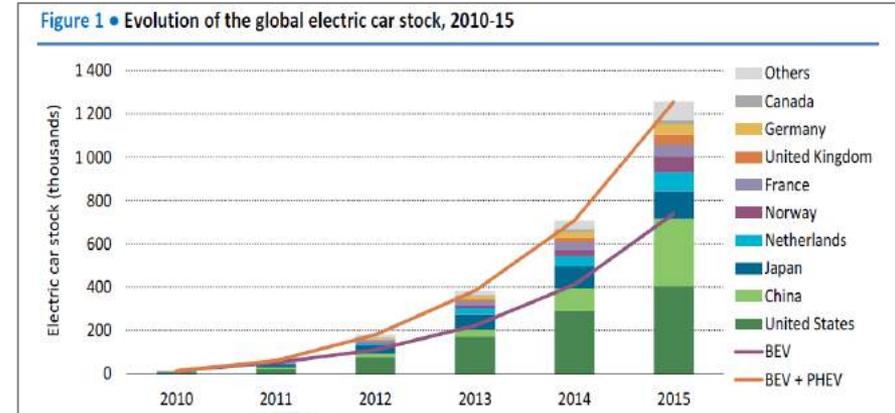
ACCUMULATOR ELECTRIC VEHICLE

- + ecological compatibility, low cost of charging (1/3 of ICE re-fueling cost)
- long time of battery charging, new infrastructure needed

FUEL CELL ELECTRIC VEHICLE

- + ecological compatibility, short re-fueling time, high cruising range
- new hydrogen infrastructure needed (\$ 1200 -2400 per one EV)

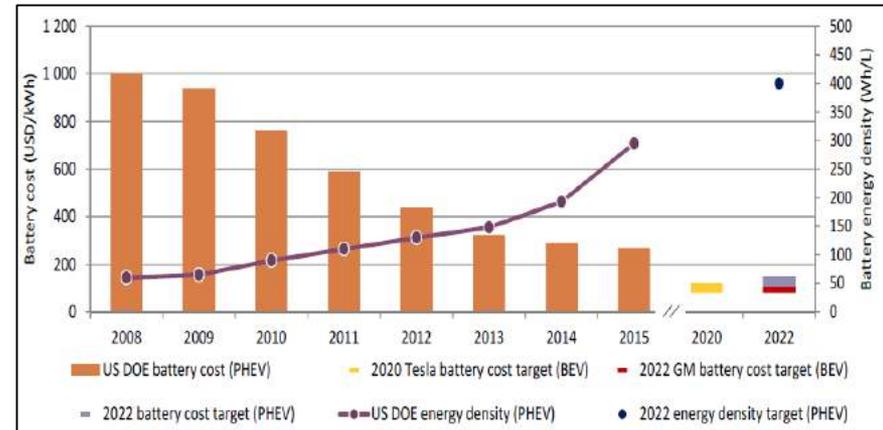
GROWTH FACTORS	STOP FACTORS
<ul style="list-style-type: none"> • Accumulator cost reduction from 1000 \$/kWh in 2008 to 250 \$/kWh in 2015 • Fuel cell cost reduction up to 40 \$/kW by 2020 • Limitation of efficiency and ecological compatibility for traditional ICE (around 30%) 	<p>New infrastructure needed: charging stations and hydrogen re-fueling stations (\$ 1200 -2400 per one EV)</p>



Tesla (AK5)



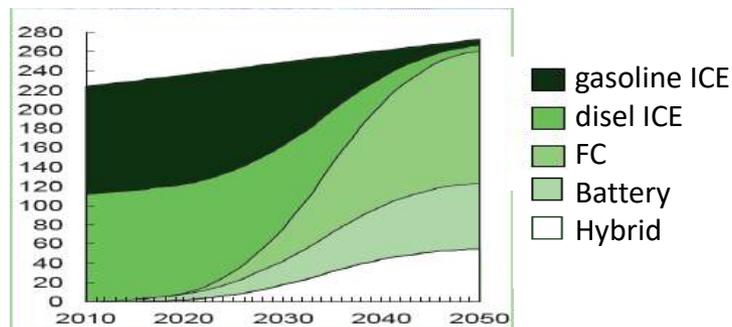
Toyota Mirai (T3)



Neither of mature technology can't meet the current requirements of the market.

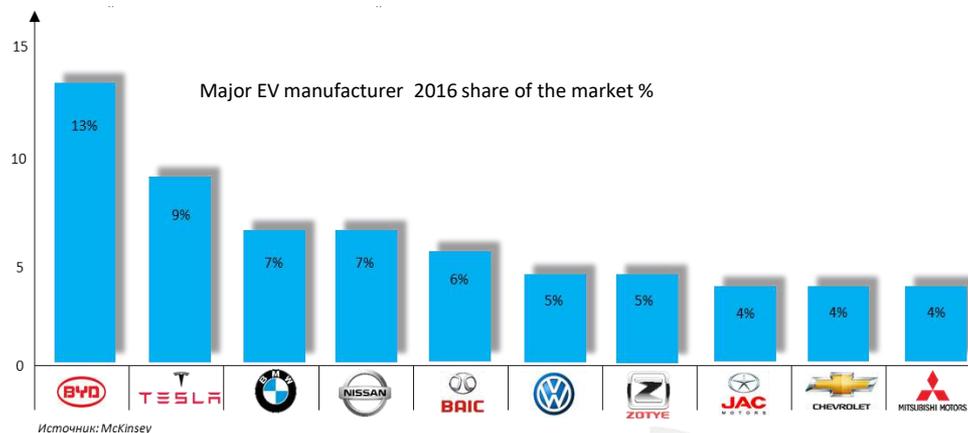
Based on *A portfolio of power-trains for Europe fact-based analysis, McKinsey*:

- Until 2025 Hybrid EV technology will have biggest growth like well-developed and universal solution
- After 2025 battery EV came to market in small-sized vehicle sector and FCEV in sector of large-sized auto



CAR SALES TOP 10 COMPANY

	Hybrid EV	Battery EV	FCEV
Renault-Nissan	+		+
Mitsubishi	+		
General Motors		+	+
Toyota	+		+
Tesla		+	
Ford		+	+
BYD	+		
BMW	+		+
Geely Group	+		
Volkswagen	+	+	+



HYDROGEN COUNCIL. DAVOS 2017

Thirteen global corporation including famous automakers - Toyota, Daimler, BMW, Honda and Hyundai (total annual income more than 1 trillion €) found Hydrogen Council. The members of the Hydrogen Council plans make more than 10 billion \$ investments in the development of hydrogen technology for automotive industry.

MARKET FORECAST

«The UAV (Unmanned Aerial Market) market is estimated to be USD 13.22 Billion in 2016 and is projected to reach USD 28.27 Billion by 2022, at a CAGR of 13.51% during the forecast period». Markets and Markets as of 2015

«The worldwide military and civil UAS (Unmanned Aerial Systems) combined production will soar to \$20.3 billion in 2025, up from \$5.4 billion in 2016.

- Military UAV production will soar from current worldwide UAV production of \$2.8 billion annually in 2016 to \$9.4 billion in 2025.

- Civil UAS production will soar from \$2.6 billion worldwide in 2016 to \$10.9 billion in 2025»

Teal Group as of 2016

«Sales of drones are expected to surpass \$12 billion in 2021, which is up by a compound annual growth rate (CAGR) of 7.6% from \$8.5 billion in 2016».

BI Intelligence as of 2017

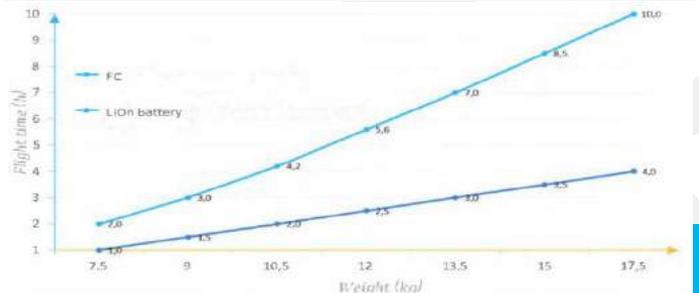
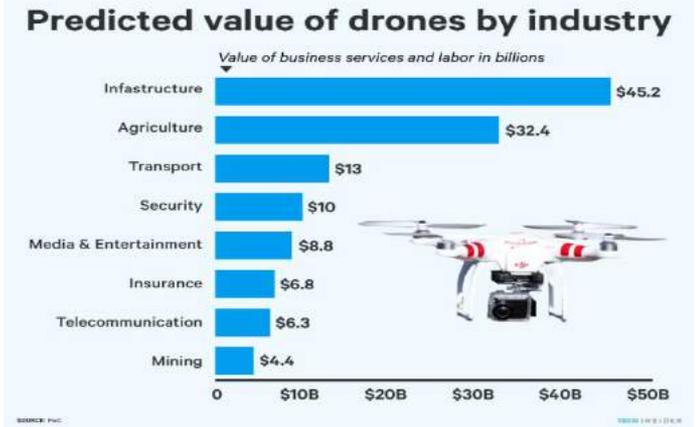
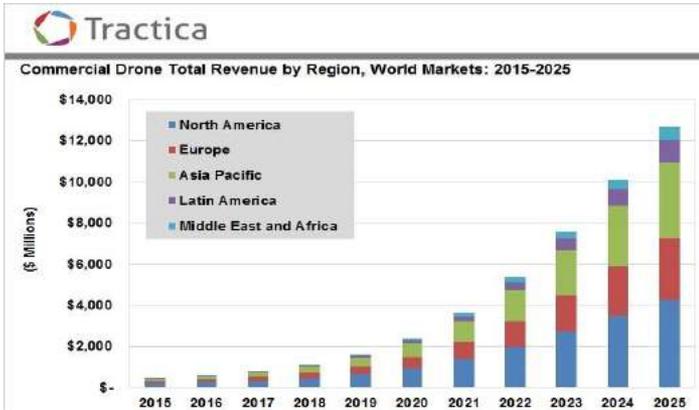
TECHNOLOGY

The most important element of UAV equipment affecting the mission performance is power source, which should have high power and energy densities, and operate with high efficiency. The power density has a decisive influence on maximum speed, load capacity, altitude of flight and rate of climbing whereas energy density impacts time (range) of flight covered without the need to refuel or recharge the energy accumulator.

Over 90% of civilian UAVs are powered by battery systems. As ICE are more expensive, unreliable, loud, emit harmful gases and require qualified services.

Fuel cells (FC) as power source for electric propulsion of UAVs show growing applications because of their energy densities that exceed 800Wh/kg in comparison to 150Wh/kg for advanced batteries.

While it's more reliable, clean, quiet and require much less maintenance comparing to ICE.



Flying Cars, Air Taxi, Personal Drones – a snapshot

Company	AEROMOBIL	AIRBUS	AIRBUS	AURORA FLIGHT SCIENCES	EHANG	E-VOLO	JOBY AVIATION	LILIUM	MOLLER INTERNATIONAL	PAL-V	TERRAFUGIA	ZEE.AERO
Name	Flying Car	PopUp ¹	Vahana	eVTOL	184	Volocopter V200	S2	Lilium	Skycar	Pal-V	Transition	Zee
Country												
Project started in	2010	2016	2016	1989	2014	2012	2009	2014	1983	2001	2006	2010
Funding [Mio USD]	3.2	undisclosed	undisclosed	15	52	1.2	undisclosed	11.4	undisclosed	-	5.56	100 ²
Investors	Patrick Hessel	undisclosed	undisclosed	Enlightenment Capital	GGV Capital	Crowdfunding	undisclosed	Atomico	undisclosed	-	Transcendent Holdings	Larry Page
VTOL ³	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-	✓
Battery	-	✓	✓	✓	✓	✓	✓	✓	-	-	✓	✓
Gasoline	✓	-	-	-	-	-	-	-	-	✓	✓	-
Hybrid ⁴	-	-	-	-	-	-	-	-	✓	-	-	-
Prototype + Permit	✓	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓
Number of rotors	1	4	8	9	8	18	12	36	4	2	1	5
Max. speed [km/h]	360	?	?	?	100	100	320	300	450	180	185	?
Max. range [km]	750	?	200	?	30	100	320	300	850	400	640	?
Seats	2	2	1	2	1	2	2	5	2	2	2	2

¹ Airbus PopUp: represents an extensive mobility concept not a sole flying platform

² Source: Bloomberg – “welcome to Larry Pages secret flying car factories”

³ VTOL: Vertical Takeoff and Landing – all other platforms require a runway/airport

⁴ Hybrid propulsion; electrically powered VTOL, gasoline powered horizontal flight

MARKET FORECASTS

The global market for Portable Battery Powered Products is projected to reach 865.4 bn.\$ by 2020.

Global Industry Analysts as of 2015

The global demand for Li-ion batteries for consumer electronics was 3.11 billion units in 2014 and is expected to reach 3.72 billion units by 2019, growing at a CAGR of 3.6%

Technavio as of 2015

The power bank market is expected to be valued at USD 25.16 Billion by 2022, growing at a CAGR of 21.2% between 2017 and 2022.

MarketsandMarkets as of 2017

TECHNOLOGY

The factors driving the growth of the market include the increasing usage of electronic devices, technological advancements, and shortage of electricity in certain countries.

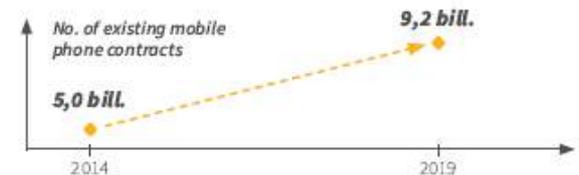
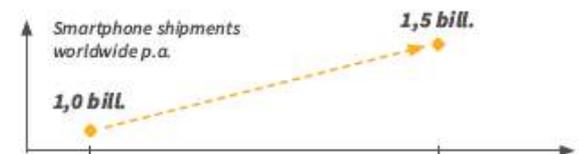
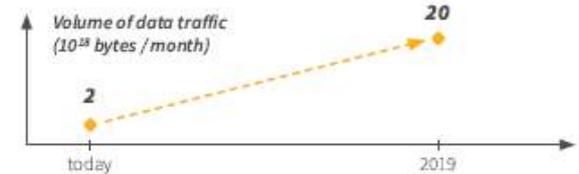
Microtubular fuel cell power generators allow consumer electronics to run independently from the power grid and battery life providing independent and lightweight power using globally available and cheaper fuels (camping/lighter gas, LPG, diesel), which can be made in the long term renewable. Engines and batteries technologically reached their physical limits, while microtubular fuel cell power generators can be an ideal solution for efficient mobile power generation.

Contrary to conventional internal combustion power generators microtubular fuel cells are scalable, noiseless, and eco-friendly. Power to weight ratio is up to 50x better than a comparable battery and can be recharged in seconds.



Market Drivers

-  Increasing Smartphones Sales
-  Growing Market for Wearable Technology
-  Growing Adoption of Portable Medical Devices
-  Expanding Market for Tablet PCs & Laptop PCs
-  Rising Popularity of Portable Scientific Equipment
-  Advent of Rapidly Charging Battery-Based Portable Devices



Within the period of 2016 to 2020, the compound annual growth rate of the global SOFT market shall be 9.78% (MarketIntelReports)

THE USA, EURO UNION AND JAPAN lead this activity. There is a developed system of government support in each of these countries.

USA



THE SOLID STATE ENERGY CONVERSION ALLIANCE (SECA) – the USA national program



JAPAN



ENE.FARM - the world's most efficient project of the mass FC adoption

The largest budget in the world which is spent on fuel cells



EUROPE



ENE.FIELD - the Europe's biggest project on FS based cogeneration systems adoption for the private household use



CHINA



ACCELERATING THE COMMERCIALIZATION OF FUEL CELL IN CHINA - THE CHINA'S GOVERNMENT PROGRAM.

INVESTMENT IN THE DEVELOPMENT OF HDROGEN POWERED TRANSPORT INFRASTRUCTURE IN THE AMOUNT OF \$ 1,5 BLN.

KPK VISION:
SUN - WIND - FS



SOFC OIL AND GAS AND COGENERATION SOLUTIONS



SOLID OXIDE FUEL CELLS – SOFC (АНГЛ. SOLID-OXIDE FUEL CELLS — SOFC)

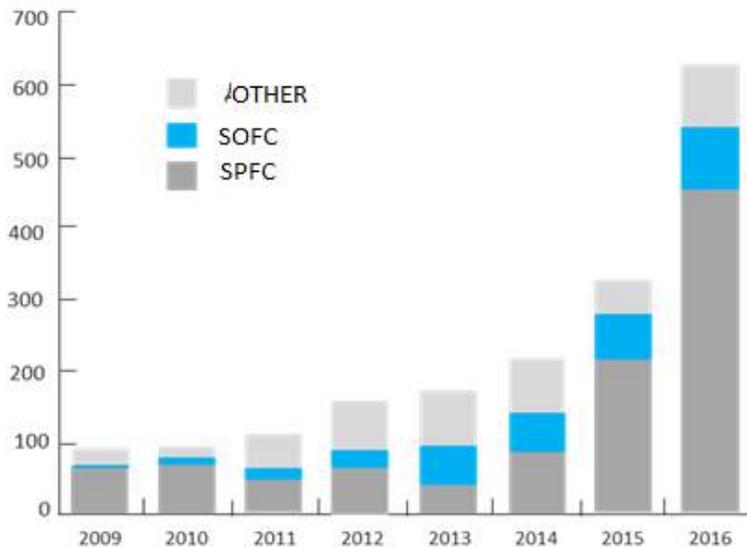
IS ONE OF THE MOST PROMISING TECHNOLOGIES AT THE MARKET OF FUEL CELLS

- ❖ WORK ON **FOSSIL FUELS**
- ❖ EXHIBIT ELECTRICAL EFFICIENCY UP TO **60%** AND TOTAL EFFICIENCY (COGENERATION) UP TO 90%
- ❖ CAPACITY VARIES FROM **100 WT TO TENS OF MWT**

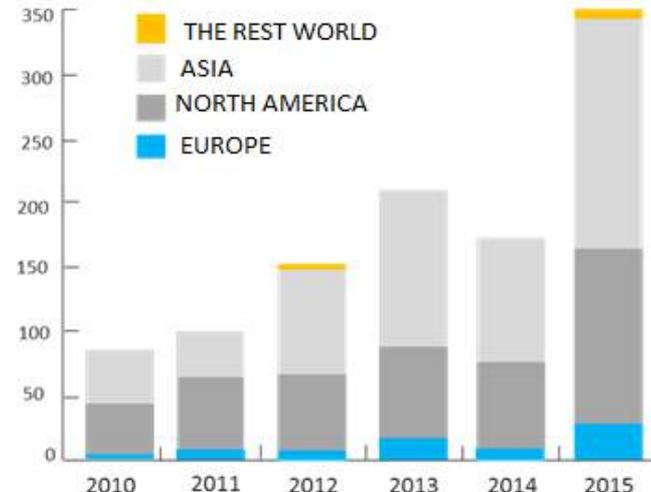
THERE IS A GROWING GLOBAL DEMAND FOR SOFC. SO, ACCORDING TO THE ESTIMATES OF *MARKETSANDMARKET* CONSULTING AGENCY, THE SOFC MARKET SHALL REACH THE LEVEL OF

\$3,3 BILLION BY **2018**

SYSTEMS INSTALLED, BY TYPE [MWT]



SYSTEMS SHIPPED, BY REGION [MWT]



Source: 4th Energy Wave



The key project participants:

TOKYO GAS, PANASONIC, TOSHIBA, AISIN SEIKI






SOFC
2 kW
NATURAL GAS



SOFC
750 W
NATURAL GAS

150 000

SYSTEMS INSTALLED

1.4

MLN SYSTEMS BY 2020

5.3

MLN SYSTEMS BY 2030
(appr. 10%
Of the total amount of private houses
in Japan)

€285

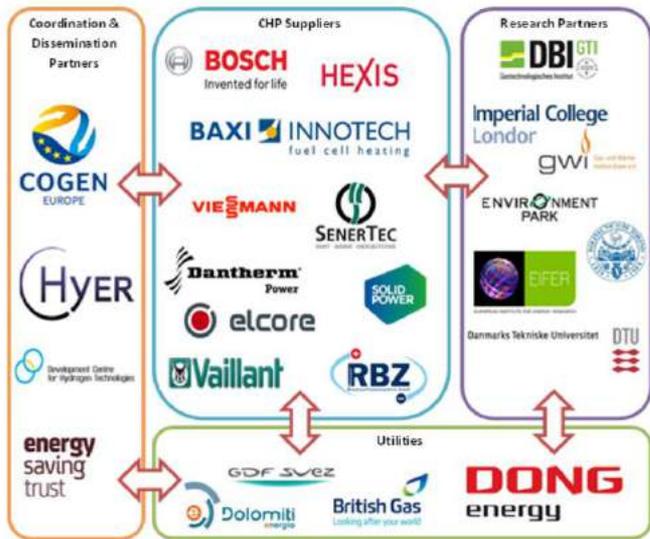
MLN -
JAPAN'S FS BUDGET FOR 2016

50 000

SYSTEMS SHALL BE INSTALLED BY 2016

The key project participants:

BOSCH **THERMOTECHNIK,**
DANTHERM POWER, BRITISH GAS **VISSMAN,**



ENE.FIELD - the Europe's biggest project on FS based cogeneration systems adoption for the private households

CERAPOWER FC 10 LOGAPOWER FC 10	Galileo 1000N	ENGEN 2500	BLUEGEN	VAILLANT G5+
SOFC 700 W	SOFC 1 kW	SOFC 2.5 kW	SOFC 2 kW	SOFC 1 kW
NATURAL GAS	NATURAL GAS + BIOGAS	NATURAL GAS	NATURAL GAS	NATURAL GAS

5
YEARS

13
COUNTRIES

8
BIGGEST FS MANUFACTURERS IN EUROPE

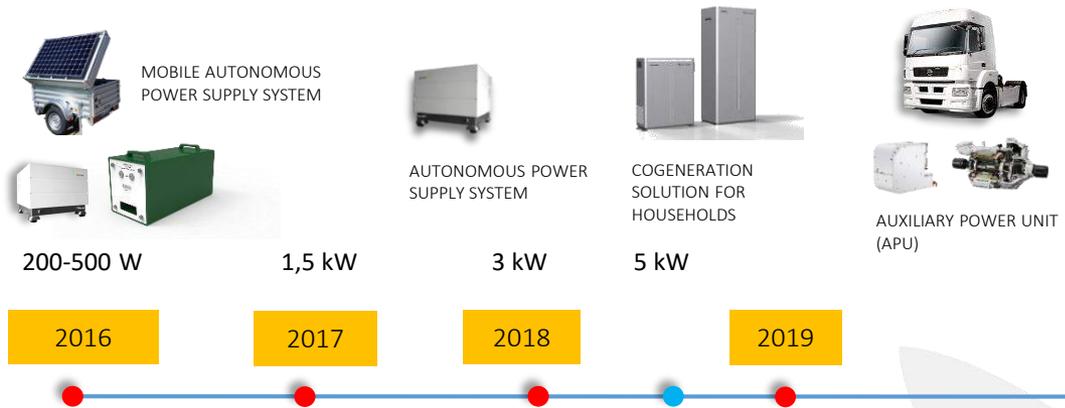
30
INDUSTRIAL MANUFACTURERS OF HEATING EQUIPMENT

SELF-CONTAINED GAMMA POWER PLATFORM



INENERGY IS THE ONLY COMPANY AT THE RUSSIAN MARKET WHICH OFFERS COMMERCIALY AVAILABLE FUEL CELL BASED SOLUTIONS

REQUIRED OUTPUT POWERS



PERSPECTIVE MARKET OF RUSSIA:

CONSTRUCTION OF NEW GAS PIPELINES

MAIN GAS PIPELINES

1600 km per year

FIELD GAS PIPELINES

3200 km per year

MARKET VOLUME CONSIDERING SHARE

10%

€ 59 MLN

UPGRADE OF EXISTING GAS PIPELINES

Extension of the existing main gas pipelines in Russia, as of 2013 according to the CIA report - **163,872 km**

MARKET VOLUME CONSIDERING SHARE

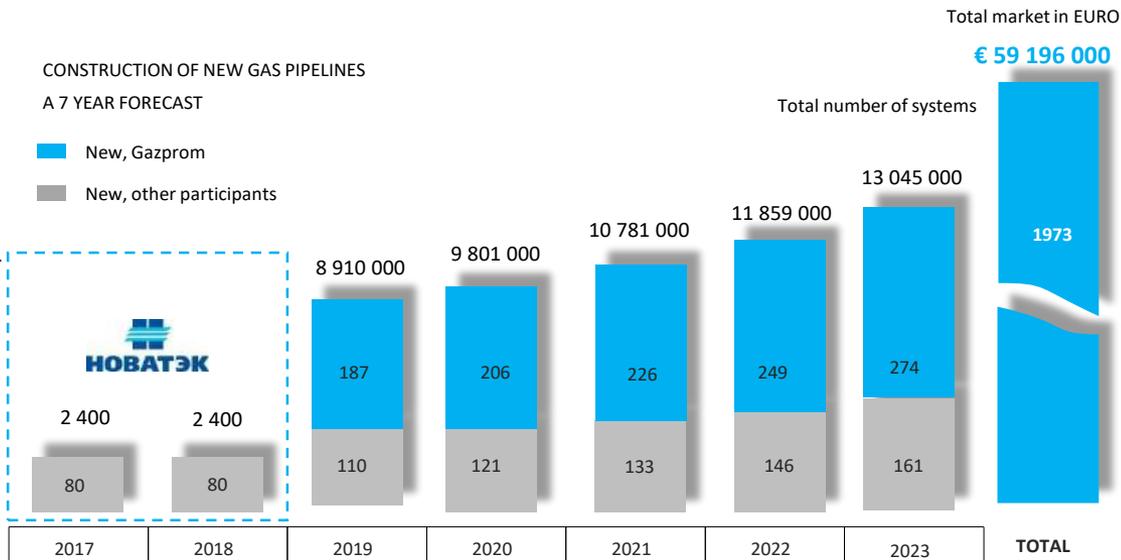
10%

2250 pc
€ 67.5 MLN

Authority: Department of Energy of the Russian Federation
Source: <https://www.cia.gov/library/publications/the-world-factbook/fields/2117.html>
Source: <http://econadzor.com/russia/28/1554.html>

CONSTRUCTION OF NEW GAS PIPELINES A 7 YEAR FORECAST

■ New, Gazprom
■ New, other participants



€ 67.5

2250 pc

PERSPECTIVE MARKET ACROSS THE GLOBE

CONSTRUCTION OF NEW GAS PIPELINES

ANNUAL MARKET VOLUME
CONSIDERING SHARE

1% **950 pc**
€28.5 MLN

Source: <https://pgjonline.com/2016/01/14/pgjs-2016-worldwide-construction-report/>



€ 28.5

**950
pc**

UPGRADE OF EXISTING GAS PIPELINES

Extension of the main gas pipelines worldwide 2 600 000 km.

ANNUAL MARKET VOLUME
CONSIDERING SHARE

1% **1600 pc**
€48 MLN

According to InEnergy estimates

Source: <https://www.cia.gov/library/publications/the-world-factbook/fields/2117.html>



€ 48

**1600
pc**

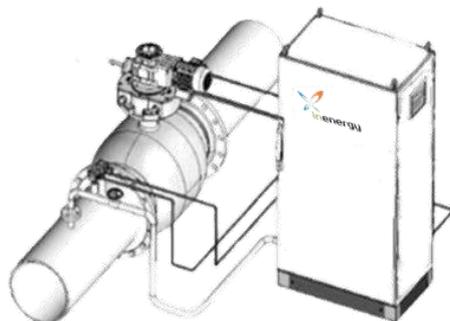


PROJECT DETAILS

In the following years, Mangazeya plans to integrate the Terelskoye field into the gas transportation system of Gazprom OJSC.

The main gas pipeline extends for **260 km**. There are **140** systems to be installed (the quantity is under discussion). The Customer-targeted cost of one system is **30,000 Euro**.

Project budget: **4,200,000 Euro**



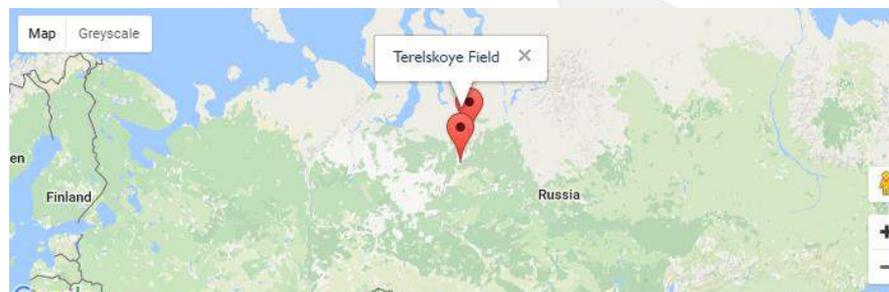
ELECTROCHEMICAL DC POWER GENERATION SETS FOR DELIVERING ELECTRIC POWER TO MAIN AND AUXILIARY PRODUCT PIPELINES (400 W to 6 kW)



TERELSKOYE FIELD:

Non-associated gas 76 bln of m³
Gas condensate 0,2 bln of tons

2 bln of m³ by 2022



APPLICATION DESCRIPTION:

Autonomous and uninterrupted power supply systems that provide permanent or stand-by electricity supply for the different objects of gas distribution network, operate automatically and do not demand service staff presence and fuel supply

Using this systems especially effective at the high pressure gas pipelines remoted from power supply infrastructure where the use of conventional sources: diesel generators and uninterruptible power supply on the basis of batteries is impossible or infeasible

The primary energy source for the independent power is natural gas, which may be taken directly from pipeline

APPLICATION SCALE

< 150 - 400 W 650 - 1,5 kW 1,5 - 2,5 kW 2,5 - 5 kW >

THE MAIN GAS PIPELINE ELECTRICITY CONSUMERS INCLUDE THE FOLLOWING:

- ❖ Cathodic Protection Systems
- ❖ Remote Control Equipment and Telematics
- ❖ Radio Relay
- ❖ Valve Stations
- ❖ Linear Crawlers Houses
- ❖ Gas Flow Measurement Points
- ❖ Purification Device Nodes
- ❖ Gas Distribution Stations
- ❖ Control Points



MANGAZEYA



OIL COMPANY «MANGAZEYA» JSC

Since 1995 the company has been developing gas condensate fields in Yamalo-Nenets Autonomous District (Tyumen Region) – the key gas producing region in Russia. The company holds gas production licenses for Chernichny and Terelsky fields (Krasnosekupsky and Purovsky areas of the Yamalo-Nenets Autonomous District)

The gas condensate fields developed by Oil Company «Mangazeya» are located in close proximity to the main transportation hubs, trunk pipelines and fields which are developed by the largest national and foreign oil and gas companies

The Company has obtained specifications for connection of Chernichnoye and Terelskoye fields’ pipelines to OJSC Gazprom’s gas transportation system, and Oil Company «Mangazeya» is currently developing required infrastructure

DEVELOPMENT PROGRAM

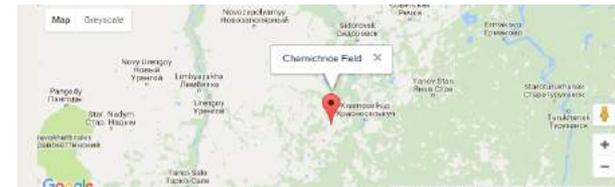
After completion of infrastructure construction the Company’s maximum annual production will reach 2.5 bln. m3 of gas and over 133,000 tons of gas condensate by 2020

The company intends to drill 8 new wells at Chernichnoye field and expects to reach peak production by 2021-2022
Drilling of new wells at Terelskoye field is expected to commence in 2016 to reach peak production level by 2022

CHERNICHNOE FIELD

non-associated gas 18 bln. m3
gas condensate 3,1 mln. tons

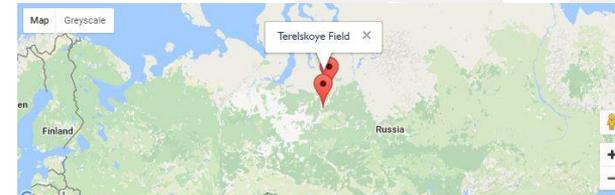
553 mln. m3 by 2022



TERELSKOYE FIELD

non-associated gas 76 bln. m3
gas condensate 0,2 mln. tons

2 bln. m3 by 2022

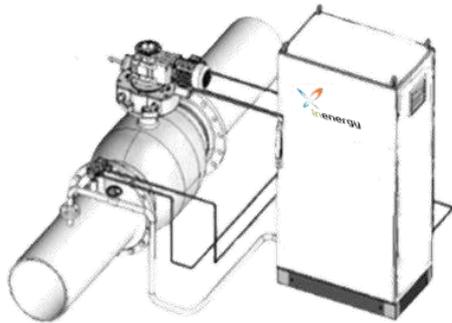


МАНГАЗЕЯ



PROJECT DETAILS

In the following years, Mangazeya plans to integrate the Terelskoye field into the gas transportation system of Gazprom OJSC



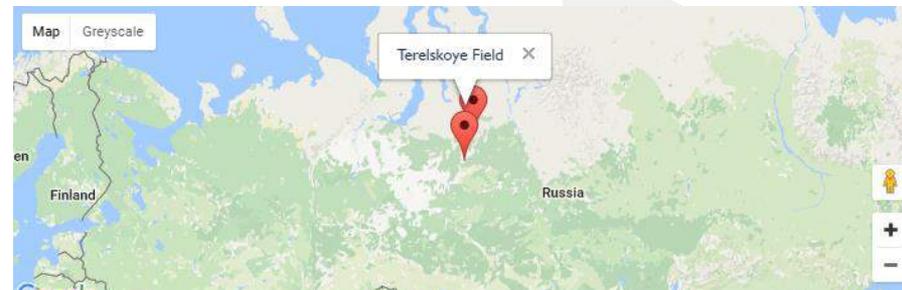
ELECTROCHEMICAL DC POWER GENERATION SETS FOR DELIVERING ELECTRIC POWER TO MAIN AND AUILIARY PRODUCT PIPELINES (400 W to 6 kW)



TERELSKOYE FIELD:

Non-associated gas 76 bln of m3
Gas condensate 0,2 bln of tons

2 bln of m3 by 2022





Outdoor cabinet, special design



Reducer



Gas preparation system

SOFC SYSTEM



Hot box



Controller



Gas piping



Inverter



Storage battery



Desulfator



Air and fuel filters

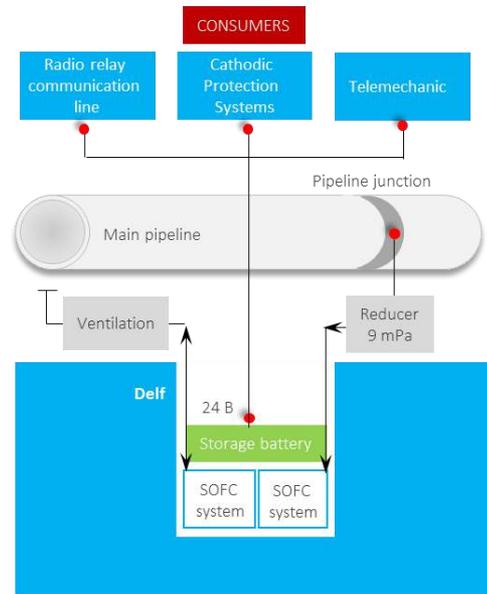
Outdoor cabinet, double-walled to -50C, anodized steel 3mm, powder coating, rain canopy. Vandal-resistant. The frame is welded to a static load of 1,200 kg, the component shelves with locking straps. Silicone gasket to -50C. Door single-wing front and rear cylinder lock with a unique secret. Built-in filter EU fan, thermostat cooling, LED lighting, temperature monitoring, humidity, smoke, break-in, dimensions 600x2200x600mm

Set for tie-in to the pipeline with a reducer, valves and safety solenoid valve

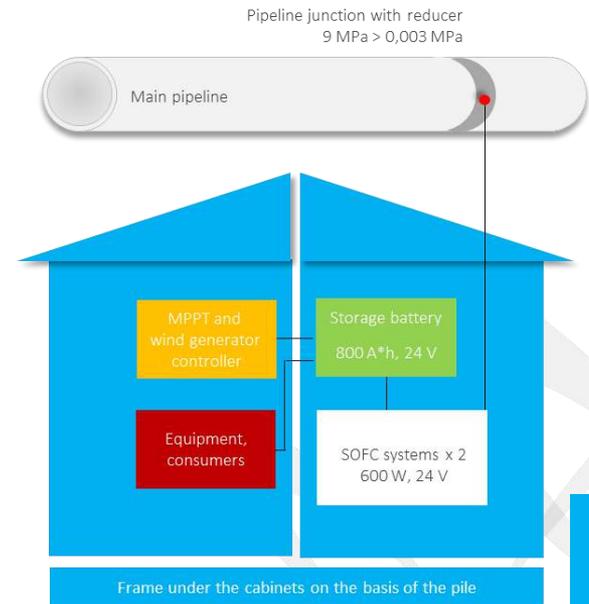
Electrochemical regeneration system based on SOFC modules, POWER 400 - 600 W, DC 24V

SOLUTION SCHEMA. IMPLEMENTATION EXAMPLES

SYSTEM CONFIGURATION 1



SYSTEM CONFIGURATION 2





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