

Proposals presented at BE in Kyiv, Nov 4, 2014

No.	Title	Organisation	Country	Contact Person	Email	Content/ Details	Collaboration sought	Type
1	Intensification of the combustion system for heat-generating plants - "Alternative burning"	"Radical plus"	Ukraine	Gennady Stolyarenko	ozon_gs@rambler.ru	<p>System for intensification of fuel combustion (the "Alternative burning" - AB) is a set of equipment, which consists of a high-voltage power supply and electrocatalytic reactor.</p> <ol style="list-style-type: none"> 1. Device and technological scheme for intensification of combustion of natural gas (10-12% savings); 2. Design and technology scheme for intensification of combustion of solid fuels (12-15% savings); 3. Designs of electrocatalytic burners for a particular design of a boiler; 4. Variety of burners for upgrading of existing solid fuel burning boilers; 5. Technology of combustion process intensification of gaseous and solid fuels, which will significantly reduce the cost of obtaining both thermal and electrical energy for heat generating plants due to a significant reduction in fuel consumption 	<p>We are looking for partners in Poland and Germany.</p> <p>Necessary to create a joint venture to commercialize the system:</p> <ul style="list-style-type: none"> - the production line of power equipment - production line of ceramic shells - site of plasma spraying, - metalworking lines, - AB-system assembly-line <p>Purchasing the necessary materials and equipment</p>	SME
2	Hydro energy storage offshore wind stations	National Ukrainian Academy of Sciences of Ukraine INSTITUTE OF RENEWABLE ENERGY/ Department of Hydro Energy	Ukraine	Vas'ko Petro Fedosiyovych	hydro@ive.org.ua		Cooperation partners in EU countries	Research Institute
3		SC INDAELTRAC SRL	Romania		office@indaeltrac.com	<p>Activities: INDAELTRAC SRL - manufactures electronic an electrical power equipment, for the following areas: TRACTION - Static converters for supplying auxiliary services (trolleybus, tram, metro);</p> <ul style="list-style-type: none"> - Traction equipment (AC and DC) for tram, trolley, subway. <p>MINING INDUSTRY - Frequency converters with a power from 22 kW to 250 kW - Static converters for starting the rotor winding, rotor induction motors with a power from 100 kW to 1000 kW.</p> <p>ENERGY INDUSTRY - Battery charging equipment</p> <ul style="list-style-type: none"> - DC power consumers; - Static excitations. 	Cooperation partners in EU and Eastern Partnership countries	SME
4		SC POPECI UTILAJ GREU SA	Romania		office@popeci.ro	<p>The Romanian company specialized in production tracking programs of our own , financial accounting programs or design programs (gears - all kind, springs, racks, etc) ensures a great accuracy and a high level of organization.</p> <p>Advantages:</p> <ul style="list-style-type: none"> -Repairs for tool machines and accessories -Static and dynamic balancing -Thermal or vibrating stress relieving -3D modeling, assembly or individual parts -Creation of complete projects (conceptual design and details) on topic -FEA Analysis (finite element analysis) - parts and subassemblies optimization 	Cooperation partners in EU and Eastern Partnership countries	SME

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5		S.C. ELECTROPUTERE AIT S.R.L.	Romania		dghindeanu@electroputere-ait.ro	<p>Manufacturing of high voltage switchgear ; Repair and service of high voltage electrical equipment; Testing activities and technical analyses, studies in electrical devices field.</p> <p>Our company has a resin treatment plant with hybrid mixer and moulding clamp machine, with 2 production lines, that can process a various range of parts: instrument transformers, bushing/support insulators and other electro insulating parts.</p> <p>The treatment plant that provides technical parameters, specialized staff, experience.</p> <p>On request, we can provide technical documentation for the process. For big quantity of products, we can provide the necessary moulds.</p>	Cooperation partners in EU and Eastern Partnership countries	SME
6		S.C. TEHNOIND ELECTRIC S.R.L.	Romania		tehnoind10@yahoo.ca	<p>The company has 15 years experience in the field of design and manufacturing electric transformers , inductances and motors based on its own R&D activities.</p> <p>TEHNOIND ELECTRIC produces a wide range of such equipment designed for various technical fields: railway and urban electric traction, industrial electric drives, railway infrastructure, electric supplies, a.s.o.</p> <p>Due to the high performance of its equipment, today TEHNOIND ELECTRIC stands up as a well Known producer on the following markets:</p> <p>Romanian Railways - for both infrastructure and rolling stock (railway cars, electric and diesel electric locomotives);</p> <p>Urban Transport Administrations - for trolleybuses, tramways and metrotrain sets;</p> <p>Engine-driven electric power Sets.</p>	Cooperation partners in EU and Eastern Partnership countries	SME
7		SC VIG IMPEX SRL	Romania		www.vig-info.ro	<p>THE MAIN AREAS OF ACTIVITY:</p> <ul style="list-style-type: none"> - Specific data acquisition and processing for industrial environments - Control and monitoring industrial processes - Design, construction & commissioning of interfaces, digital equipments. <p>PRODUCTS:</p> <ul style="list-style-type: none"> - Equipment & systems for recording electrical events (analysis and diagnosis) - Registration systems and equipment slowly varying signals (merged or not) in order to identify defects - Equipment and software compatible embedded PC-104, for industrial environments - Protective equipment installations, electric machinery (complex electrical protections) <p>Kits for checking phase protection relays power generation complex</p> <p>Dedicated equipment and digital interfaces with associated software</p> <p>Software on demand (assembly, C + +, Visual C)</p>	Cooperation partners in EU and Eastern Partnership countries	SME

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8		SC IPA SA CIFATT Craiova	Romania	Gabriel Valdut	office@ipacv.ro	<p>SC IPA SA, Craiova subsidiary, instituted in 1980, based on R&D activity, software development, engineering on complex automation and IT systems as "turn-key solutions", ISO 9001 certified.</p> <p>Here are some of the advantages that you have when working with our company: - experience in consultancy services both on national and international plans - good collaboration relations with prestigious companies and institutions on national and international plans Regional Enterprise Europe Network point – consultancy for financing through partnerships in UE projects.</p>	Cooperation partners in EU and Eastern Partnership countries	SME
9		ICMET Craiova	Romania		market@icmet.ro	<p>ICMET Craiova is a state owned Research Development and Testing National Institute for Electrical Engineering.</p> <p>ICMET is a Competence Center in the field of research-development, testing, calibration of electrotechnical products, nationally and internationally recognized by European level accreditations for High Voltage, high currents and Electromagnetic Compatibility tests on Low, Medium and High Voltage equipment.</p> <p>ICMET Craiova has testing/certification laboratories accredited by: RENAR for:</p> <ul style="list-style-type: none"> - High Voltage Tests - High Power Tests - Electromagnetic Compatibility, - Low Voltage, - Fire Safety and Environmental Tests - High Currents Devices Calibration 	Cooperation partners in EU and Eastern Partnership countries	Research Institute
10		National Institute of Research and Development in Mechatronics and Measurement Technique - INCDMTM	Romania	Gabriel Valdut	office@ipacv.ro	<p>Our main activity:</p> <p>Methods, technologies, measuring and control instruments for assessing quality characteristics through different proceedings, according to measuring techniques:</p> <p>Concepts and methods for improving competitiveness, reliability and capability in industrial processes; new materials, along with appropriate technologies for using them in mechatronics, integronics and adaptronics.</p> <p>Methods, procedures and instruments for evaluation of trends, prognoses and strategies for the industry of precision mechanics, mechatronics, integronics and adaptronics.</p> <p>Technological transfer, result capitalization and consulting, offered to manufacturing companies and consumers in the industry</p>	Cooperation partners in EU and Eastern Partnership countries	Research Institute

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11		University of Craiova	Romania	Gabriel Valdut	office@ipacv.ro	<p>University of Craiova assure services for SMEs, R&D units, as support of business and innovation and work for a fast growing software services and industrial automation engineering company in Craiova, Romania.</p> <p>Our company offers complete personalized services for the design and the development of applications in different industries.</p> <p>Domains of activity: research activities.</p> <p>The mission of the University's scientific research is to generate knowledge, as well as to transfer, disseminate and exploit the knowledge acquired through scientific research.</p> <p>Scientific research is organized and managed in accordance with the national legislation and the European one, comprising basic research, applied research, technology research, design, control, consulting, experimental tests and measurements.</p>	Cooperation partners in EU and Eastern Partnership countries	University
12	SOLID OXIDE FUEL CELL DEVELOPMENT AT FORSCHUNGSZENTRUM JUELICH	Forschungszentrum Jülich	Germany	Volodymyr Shemet	v.shemet@fz-juelich.de	<p>Solid oxide fuel cells operate at high temperature (typically 700-900oC) and have advantages in terms of high conversion efficiency; various applications (transportation, household, industry)</p>	Cooperation partners in EU and Eastern Partnership countries	Research Institute
13	Research and development of efficient residential LED lamps with volumetric SMD and COB modules white glow with reflective mirror holders-radiators	"LED Technologies of Ukraine" Ltd	Ukraine	Vlatcheslav Borshchov	viatcheslav.borshchov@cern.ch	<p>Volumetric LED modules are designed for light bulbs-retrofit of medium and high power with E27 base for residential and general lighting.</p> <p>Currently, lamps-retrofits for residential and general lighting in which the emitters as small and medium power are widely used flat COB LED modules are designed.</p> <p>The widespread mastering of production of such lamps is due to the simplicity of the design of the flat module, its fastenings on the heatsink, as well as affordable and not complicated production technology lamp.</p>	<p>Ukrainian Consortium ("LED Technologies of Ukraine" Ltd, Kharkiv National University of Radio Electronics, V.E. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine) is searching for EU cooperatiopn partners. Possible roles of EU partner organizations in the project might be:</p> <ol style="list-style-type: none"> 1) Coordination of work 2) Expertise and skills of the partner organization 3) Propagation (of results, information, experience) 	SME
14	Research and development of high-efficiency concentrator solar arrays on flat foclins in volumetric carbon fiber frames for space purposes	Kharkov National University of Radio Electronics	Ukraine	Nikolai Slipchenko	nslip@kture.kharkov.ua	<p>The proposed project is aimed at the development and research of innovative high-efficiency concentrator solar arrays (SA) for space purposes base on high-efficiency multi-junction GaAs solar cells with an efficiency of 25-28% with integrated protective diodes in lightweight corrugated volumetric carbon fiber frames. It is expected that the energy and operating parameters of the concentrator solar panels will surpass or match specific energy and cost parameters of the planar solar arrays and the best world analogues of the concentrator SA based on flat foclins</p> <p>The concentrator SA design will be as close as possible to the traditional deployment models and will ensure opportunities to use such arrays within existing and future spacecraft.</p>	<p>Consortium consists currently of partners from Ukraine, Belgium and Germany, and is seeking additional partners from the EU.</p> <p>Role of partner organizations in the project:</p> <ol style="list-style-type: none"> 1) Coordination of work 2) Expertise and skills of the partner organization 3) Propagation (of results, information, experience) 	University

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15	Solid oxide fuel cell development	Institute for Problems of Materials Science	Ukraine	Oleksandr Vasylyev	vasilev@ipms.kiev.ua	600 oC Ceramic Fuel Cell that is considered now as a promising technology for reliable and environmentally safe energy generation. Elaborated laboratory technologies As result, specific resistance at 600 oC of ZU FC is ~0.6 ohm-cm ² , Typical is >2.0 ohm-cm ² . Sample of portable 10 W FC battery. FC equipment of \$500 per kW is expected. World-wide cooperation. Ukrainian zircon deposit is ~10 % of the World natural resources.	Existing network with partners from EU (Germany, Poland, UK) and Eap (Azerbaijan)	Research Institute
16	Research and development of technology for continuous burning of whole straw bales for hot water boilers up to 2 MW.	Renewable energy institute of National academy of sciences of Ukraine	Ukraine	M. Zhovmir	zhomir@yandex.ru	Hot water boilers with batch whole straw bales combustion under large air jets impact	Boiler designers and manufacturers in EU and Eap countries	Research Institute
17	Buildings design for new highly energy performing buildings	Sustainable Development and Policy (SDAP) Center	Georgia	Karine Melikidze	kmelikidze@sdap.ge	SDAP Center offers its experience and expertise in buildings' energy efficiency. "Building Energy Passport" is a unique software program developed by the SDAP Center for energy efficient design of buildings. The "Building Energy Passport" software program is a standalone desktop application based on Microsoft. NET Framework 4.0 It represents tools and techniques for assessment of energy performance design options, evaluation of energy efficiency of buildings and labelling according to the requirements imposed by the Directive 2010/31/EU on Energy Performance of Buildings.	Cooperation partners in EU and Eastern Partnership countries for H2020 call EE-02-2015	Research Institute
18	New technologies for utilization of heat in large industrial systems, considering the whole energy cycle from heat production to transformation, delivery and end use	Sustainable Development and Policy (SDAP) Center	Georgia	Karine Melikidze	kmelikidze@sdap.ge	SDAP Center offers its experience and expertise in conducting comprehensive energy audit to exploit energy saving potential and eliminate waste of energy, ensuring its normal operation at industrial plant located in Georgia. Director of the SDAP Center is an experienced, internationally certified energy auditor who has conducted recently over 30 energy audits with the ENSI International (Norway) BEA software program as well as ENSI Economic Profitability software for conducting cost benefit analysis for assessing profitability of the energy efficient measures selected during energy auditing (NATELI, EU –ESIB projects). She is the author of the textbook "Energy Audit "Manual developed for students of the Georgian Technical University within the NATELI/ USAID project in 2011.	Cooperation partners in EU and Eastern Partnership countries for H2020 call EE-18-2015	Research Institute

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19	EeB 05-2015 Innovative design tools for refurbishing of buildings at district level EeB 06-2015 Integrated solutions of thermal energy storage for building applications EeB 07-2015 New tools and methodologies to reduce the gap between predicted and actual energy performances at the level of buildings and blocks of buildings EeB08-2015 Integrated approach to retrofitting of residential buildings H2020-EE-2015-2-RIA Demand response in blocks of buildings	Sustainable Development and Policy (SDAP) Center	Georgia	Karine Melikidze	kmelikidze@sdap.ge	SDAP Center expresses interest within the above calls and offers experience and expertise such as: Conducting comprehensive energy audits with profitability calculations, Innovative design software tool “ Building Energy Passport “ for integrated approach in retrofitting residential buildings Thermal energy storage solution for building applications Municipal Energy Passport (MEP) software program for modeling local energy systems, forecasting energy balances and development of various scenarios, including energy efficiency action plans	Cooperation partners in EU and Eastern Partnership countries for H2020 calls	Research Institute
20	Cooperation in research related to natural gas/ fuels	Gas Institute of National Science Academy of Ukraine Department of refining and transportation of natural gas	Ukraine	Hennadyi Zhuk	hen_zhuk@ukr.net	Technology of additional power generation during regasification process at LNG-terminal The use of natural , associated petroleum and flaring gases as motor fuels in gas diesel units Technology of collection and utilization of landfill biogas for power generation Experimental unit for natural gas and carbon dioxide hydrates research A new concept of heat and mass exchanger for environmentally friendly and energy-efficient heating and air conditioning system using the energy of the environment.	Cooperation partners in EU and EaP countries	Research Institute
21	STREAM - NICHE TECHNOLOGY OF COMBUSTION FUEL (SNT)	SPA "SNT"	Ukraine	Marina Grebbina	marina.grebbinaya@gmail.com	SNT produces burners, boilers and furnaces of different sizes	Cooperation partners in EU and EaP countries	SME
22	The Autonomous Plant for Generating Electrical Energy from Biomass	Lviv centre of science, innovations and informatization	Ukraine	Orest Mukha	muha@cstei.lviv.ua	As demand for petroleum fuels continues to increase and resources are steadily depleted, and as the societal desire for environmentally positive and carbon-neutral products deepens, the need for use of biomass to liquid technology is clearer than ever before. Increasingly, institutions want a green energy solution, and bio-oil energy represents a practical alternative to fill this market demand.	Cooperation partners in EU and EaP countries	Research Institute