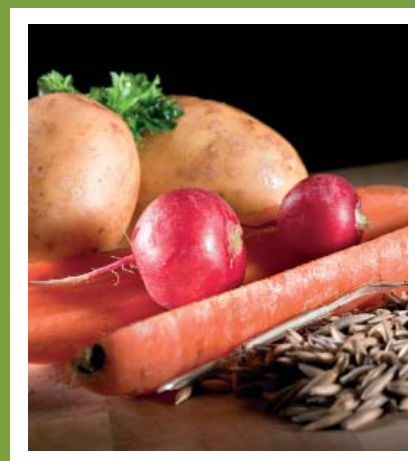
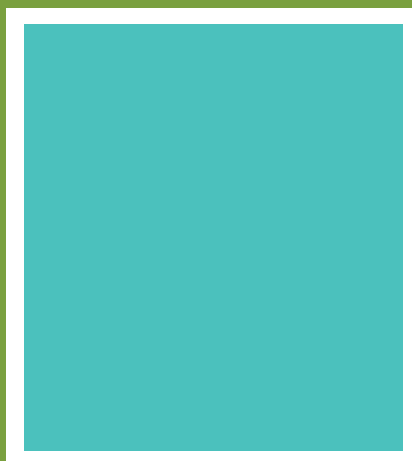
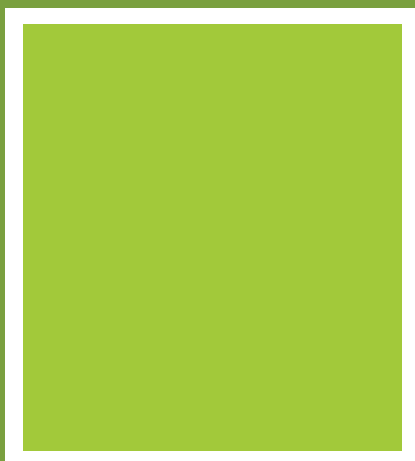
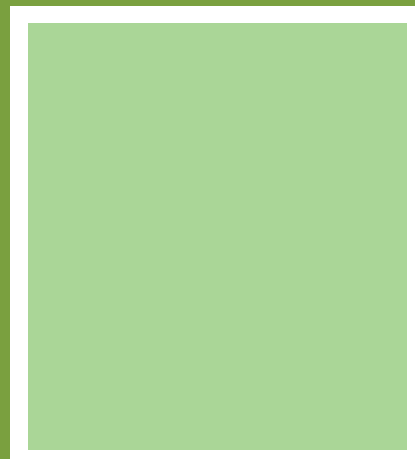


# TechMatch

AGRI BUSINESS & ENVIRONMENT

# 06

2011



Riga Food 2011

Energy is Future 2011

SPACE 2011 - Livestock

ANUGA Matchmaking

## Technology Searches

- Technology and device for oxygen enrichment of beverages
- Simulation technology for testing of agricultural machinery structure
- Composite materials for wind-power generating tower
- A technology to produce electrical energy from hazelnut shells is sought



MAKE CONTACT WITH TECH MATCH

# Make new contacts with TechMatch

TechMatch is a free information service, which includes a selection of technologies which are offered and requested by companies in Europe. The service also provides information on relevant fairs and matchmaking events.

The aim of the publication is to promote cross border trade and co-operation.

TechMatch is produced by Nordic members of the Enterprise Europe Network – the world's largest business network.

## Interested in a new technology?

If you're interested in one of the technologies or events, or wish to get in contact with one of the companies in TechMatch, please contact one of our consultants. Remember to quote the reference number!

You are also welcome to contact us if you wish to promote your new technology in other European regions.



### Iceland



**Kristín Halldórsdóttir**

Innovation Center Iceland  
Reykjavik, Iceland  
Tel: +354 522 9232  
kristinh@nmi.is

### Finland



**Arttu Kotilainen**

Hermia Yrityskehitys Oy  
Tampere, Finland  
Tel: +358 50 310 0028  
arttu.kotilainen@hbd.fi

### Sweden



**Ellen Carlsson**

LTC  
Jönköping, Sweden  
Tel: +46 36305702  
ellen@ltc.se

### Norway



**Ingrid Martenson Bortne**

Innovasjon Norge  
Narvik, Norway  
Tel: +47 76 95 55 40  
ingrid.martenson.bortne@innovasjon Norge.no

### Denmark



**Anne-Luise Skov Jensen**

Agro Business Park  
Tjele, Denmark  
Tel: +45 8999 2526  
alsj@agropark.dk

### Denmark



**Anders Skeem**

Agro Business Park  
Tjele, Denmark  
Tel: +45 4030 9637  
as@agropark.dk

A large, white, stylized letter 'E' is centered on the page. The letter is composed of thick, solid white bars. The top and bottom horizontal bars are the longest, while the middle horizontal bar is shorter. The vertical bar on the left is also thick and solid white.

TECHNOLOGY SEARCHES

### Integrated Production Plant Of Cellulose Pulp From Agricultural Residues And Molded Products

(Ref: 11 ES 27F3 3KSI)

An andalusian company has developed an Integrated Production Plant of cellulose pulp from agricultural waste to produce organic molded packaging products. The advantages are use of wet-wet raw material with a high reduction of energy costs, time, transports, etc., the guarantee of traceability of products for the food industry and the medical sector. The company is looking for License Agreement or joint venture agreement.

### Technology and device for oxygen enrichment of beverages

(Ref: 11 AT 0105 3LAG)

An Austrian producer of non-alcoholic beverages has developed a new method for the oxygen enrichment of beverages. Consumption of oxygen rich drinks can have a positive health effect. The



device can be integrated with common industry standards and production lines. The company is seeking partners to produce and sell the existing brand or develop new brands/products with this technology. The device is easy to maintain and technical support will be given by the company.

### Smart and sustainable growing system for potato seed production using hydroponics

(Ref: 11 NL 60AH 3L7F)

A Dutch company is specialized in development and production of smart and sustainable cropping systems for minitubers. The company has developed an automated system for potato seed production using hydroponics. This system provides rapid and pathogen free propagation of minitubers. The company is interested in commercial agreements with technical assistance with seed potato growers, potato breeders and agricultural institutes.



### Individual quick freezing machine to be used for seafood products

(Ref: 11 TR 99PB 3LCS)

A Turkish company, active in seafood market, is looking for individual quick freezing machine (IQF) for its seafood products namely; silver fish, anchovy and venus gallina (kind of clam). The sought technology must be fully developed and should utilize ammonia as a coolant instead of freon. The firm is open to commercial agreement with technical assistance for appropriate design of such machine for the said products, including the services of assembling, maintenance and technical consultancy.

### Two-in-one packaging and storage solution to extend the shelf life of minimally-processed food

(Ref: 11 DE 0855 3LDK)

A small German company offers a Modified Atmosphere Packaging (MAP) solution which combines a storage and transport function in a standard-sized reusable plastic container. The system extends the shelf-life of food products in a more economical and environmental-friendly way than conventional one-way MAP solutions. The company looks for food processing/logistics companies interested in implementing the solution in the frame of a commercial agreement with technical assistance.

### Non-invasive optical method for the assessment of fruit maturity

(Ref: 11 IT 55W4 3LFN)

An Italian research centre developed a non invasive new optical method for the assessment of fruit maturity based on the measurement of chlorophyll fluorescence (evaluation based on colour). The technique applies to portable devices for in-field detection and to on-line post-harvest sensors for fruit control and sorting. Partners sought: operating in horticultural and post-harvest science for common RTD projects and agriculture-related SME interested in testing the devices.

### Transparent, breathable wrapping for cheese products

(Ref: 11 GB 46P5 3KBU)

A small Scottish organic cheese manufacturer is seeking a transparent, breathable wrapping for whole cheeses which will allow a logo on the cheese outer to be displayed without compromising the shelf life of quality of the product.

### System for production control, traceability and management of fruits

(Ref: 11 ES 29h3 3LJY)

A Spanish company is specialised in the automation and control of industrial processes. They design and manufacture prototype machines for different sectors and develop traceability and monitoring software. They have developed a new traceability compact system, easy to install and adaptable to all kinds of small/medium fruit production centres. The company is looking for commercial agreements with technical assistance for adapting and implementing the system in fruit production companies.

### Development of biobased plastics from agricultural wastes

(Ref: 11 ES 27F4 3LMW)

A Spanish organization for the food industry is seeking companies or research groups with technologies related to the production of biopolymers from agroindustrial wastes applicable to the development of biobased plastics that can be used in food packaging. This entity is interested in signing an agreement for technical cooperation.

### **Rapid Diagnostic Kits (biosensors) for detection of compounds in fresh animal food**

**(Ref: 11 ES 27F4 3LOH)**

An Andalusian fishing sector organization is looking for equipment and diagnostic systems (biosensors, multisensor, etc.) fast, reliable, simple, inexpensive and effective to detect relevant compounds in fresh fish, pollutants, microorganisms, toxins, etc. Non-destructive characteristics will be especially valued. The organization is interested in signing cooperation agreements with companies and/or research groups in order to implement these technologies at the fisheries sector.

---

### **New aromatic compounds for alcoholic beverages**

**(Ref: 11 PL 63AV 3LKB)**

Polish company - producer of alcoholic beverages, wines and fruit concentrates is looking for new recipes of alcoholic products on the basis of fruits (alc. content 6-24%). The company is interested in collaboration on the basis of technical cooperation (transfer of know-how).

### **Organoleptic improvement of seafood through new techniques, preservatives and/or additives**

**(Ref: 11 ES 27F4 3LP6)**

An Andalusian fisheries organization is looking for technologies which involve a significant improvement in the organoleptic characteristics of fishery products through the use of preservatives and/or additives. Techniques based on the use of natural flavors (salt flavored) will be especially valued, as the aim is to produce a taste difference, but as natural as possible. This organization is interested in signing agreements for technical cooperation or commercial agreements.

# AGRICULTURE & ENVIRONMENT

## High quality production of modular anaerobic digestion system

(Ref: 11 GB 40n6 3L66)

A company based in the South-East of England has developed a modular anaerobic digestion system, which is easier and cheaper to install than current competitors. While the modules are currently produced in the US, the company is interested to transfer production to the EU, to save on costs and embodied energy. They are looking for partners who can produce the modules to the current standard, either using blow-moulding of polyethylene or developing new materials and/or processes for it.

## Adsorbent materials with superparamagnetic behaviour for removal of radioactive and toxic pollutants from water

(Ref: 11 ES 28G2 3L3T)

A Spanish research institute has developed a technology that confers superparamagnetic properties to diverse adsorbent materials. These materials preserve their sorption properties and at the same time can be easily recovered with the help of a magnetic field, which is useful for processes that imply separation, decontamination, water treatments, and removal of toxics and radioactive pollutants. Industrial partners interested to use this technology for water treatment are sought.



## Novel tailor made LED lighting system for greenhouses

(Ref: 11 IS 81ET 3LDI)

An Icelandic SME, has developed a patent pending water-cooled, high intensity, ultra longevity, low maintenance, energy efficient LED (Light Emitting Diode) lamps and drivers for horticulture lighting applications. This energy and cost saving LED based lighting



system can be tailored for applications for both top and inter lighting and is suitable for greenhouse based flower and vegetable cultivation. The company seeks partners for commercial/technical collaboration and licensing agreement.

## Expertise and novel devise for simulating the chewing action of mammals

(Ref: 11 FR 33J8 3L9O)

A French laboratory has developed a novel device for mammals chewing simulation, together with an expertise in this field. This device is targeted to study the food transformation into a bolus in various populations. The laboratory is looking for a technical cooperation based on the scientific expertise.

## Energy efficient and controllable greenhouse lightning system enabling higher productivity

(Ref: 11 FI 30H7 3LAB)

A small Finnish company has developed a new growth lightning application for tall plants. This lightning system is a durable and flexible curtain structure with top quality LED units. The structure and low surface temperatures enable more intense growth tighter rows hence higher productivity. The company is looking for companies and research institutes for testing of the application and commercial agreements with technical assistance.



## Anaerobic high rate process for treatment of industrial organic waste water

(Ref: 11 NL 60FI 3LC3)

A Dutch SME has developed a two stage anaerobic high rate granular process for the treatment of industrial organic waste streams with a certain amount of suspended solids and also applicable for relatively thin/diluted waste waters. The SME is looking for companies and manufacturers with expertise of their local waste water market and is offering a commercial agreement with technical assistance. Other forms of cooperation are open for discussion.



## Simulation technology for testing of agricultural machinery structure

(Ref: 11 PL 62AP 3LCU)

A Polish company is looking for a simulation technology of mechanical systems in construction of agriculture machinery frames. Technology should enable designing and testing of realistic virtual prototypes of agriculture machines as well visual as mathematic simulation and full diagnostics of mechanical systems on user's computer. A company is looking for a simulation system which will be used for advanced engineered analysis. Partners for commercial agreement with technical assistance are sought.

## Technology for testing of strength of agricultural machinery construction frames

(Ref: 11 PL 62AP 3LCM)

A Polish company acting in the field of agricultural machinery production is looking of an innovative technology for testing the strength of agricultural machinery construction frames. The company is looking for a device able to test large-size comp.

# AGRICULTURE & ENVIRONMENT

## Disinfection of surfaces in contact with water

(Ref: 11 IT 55W4 3LDA)

An Italian laboratory has developed and patented a technology based on the use of pressurised carbon dioxide when used alone or in synergy with typical biocides for the disinfection of water and surfaces in contact with water. The technology comprises also a method for metering and delivering carbon dioxide and their mixtures. The laboratory is looking for partners for a licensing agreement.

---

## Water Nitrates Removal And Waste Reuse as Fertilizer

(Ref: 11 ES 252K 3LDN)

A Catalan SME has developed a new method to remove nitrates from water obtaining a nitrate waste that can be used as fertilizer. Nitrates pollution of drinking water is an acute problem in farming areas. Current methods for nitrate removal produce a saline waste that must be refused. This new technology is based on a modified Ion Exchange Resin and provides drinking water and a nitrate waste that is valued as fertilizer. The company is open to different types of collaboration agreements.

---

---

## Seeking solution for partial or complete replacement of antibiotic in animal semen for artificial insemination

(Ref: 11 FR 34K2 3LED)

A French innovative company specialized in animal artificial insemination, aims to replace partially or completely the use of the antibiotic in the semen. The R&D SME is looking for an active molecule or mechanical effect solution that would have a cytotoxic property or could inhibit bacteria and their metabolism. The French SME is seeking partner bringing know-how, experience or method to develop a suitable solution. A Technical Cooperation, Joint Venture or Licence Agreement is sought.

---

## Ecological soils fertilization procedure

(Ref: 11 ES 27F4 3LHM)

A Spanish public research organization has patented a soil fertilization method based on the use of thermophilic bacteria of the genus *Ureibacillus*, *Brevibacillus* and *Geobacillus* as ecological agricultural fertilizers. As result of their metabolism, these heterotrophic bacteria excrete sulfate and ammonium to the soil, improving its nutrient content. The use of this biological method allows stopping using chemical fertilizers. Partners interested in a patent license agreement are sought.

---

---

## Innovative energy efficient technology for elimination of odor in slaughterhouses

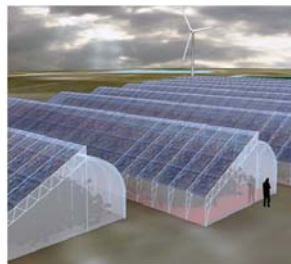
(Ref: 11 ES 24D8 3LOZ)

A Spanish company is looking for an innovative technology able to eliminate odor in slaughterhouses and pig and poultry processing centers. The technology should be energy efficient with low emissions and if possible combinable with renewable energy sources. The company is looking for a commercial agreement with technical assistance.

## Greenhouse photovoltaic cells scattered with digital monitoring of photosynthesis

(Ref: 11 IT 53U1 3LE0)

A Southern Italy company operating in renewable energies offers a prototyped solar greenhouse able to use variable sizes of the generator according to the needs of photosynthesis of the planted



crops. The technology offered pursues the compatibility between agricultural activities and production of energy for quality products that do not require transactions in open field. Companies from the agrofood sector are searched for technical/manufacturing agreement with technological cooperation.

---

---

## Highly-polluted aggressive Industrial process waste water treatment

(Ref: 11 SE 67BY 3L3L)

A Swedish SME with long experience in industrial waste water treatment is a specialist in purifying highly-polluted aggressive waste water. Their systems are used for purification of waste water from municipalities, surface treatment/chemical industries, scrubber and condenser water from power generation plants, waste incineration and desulphurising plants etc. They offer their expertise and products to industrial or municipality partners for commercial agreements with technical assistance.

---

## Novel Procedure of anaerobic digestion of municipal solid wastes in two temperature phases

(Ref: 11 ES 27F4 3LJG)

An Andalusian research group has developed a novel procedure which consists of the anaerobic degradation of municipal solid waste material in two temperature phases (thermophilic & mesophilic) without separation of the microbiological phases. This procedure increases the stability of the process and the plant's daily capacity for the waste treatment. Efficiency is also improved in terms of biogas production and elimination of organic substances. They're open to several types of collaboration.

---

---

## Nitrogen removal biotechnology for high-strength effluents from biogas plants and food processing plants

(Ref: 11 CZ 0744 3LIR)

Czech company developed technology for nitrogen removal from high-strength industrial effluents (e.g. biogas plants, food processing plants). Highly efficient and easy-to-control solution is based on immobilisation of selectively cultivated nitrification and denitrification bacteria inside of a porous hydrogel matrix. It is resistant to high concentrations of ammonia, toxic or inhibiting substances. Deployed in municipal and industrial projects. Partners for technology utilization are sought.



# AGRICULTURE & ENVIRONMENT

## Fast-composting technology for rapid treatment of range of waste types

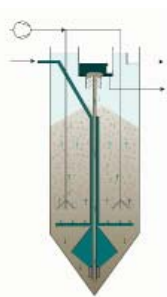
(Ref: 11 SK 69CX 3LHR)

Slovak R&D SME has developed an innovative fast-composting technology for rapid semi-continual treatment/valorization of municipal, domestic, institutional, horticultural, agriculture, forest and food industry biodegradable wastes (BDW). It enables removing compost product in one to three week intervals. Main products are 2 to more sorts of composts and soil substrates, wood chips and fuel wood, poultry and fish food products/accessories, derived products. Company seeks all types of cooperation.

## Moving Bed (bio) filtration

(Ref: 11 NL 60FI 3LFL)

A Dutch SME has developed a separation process and/or a biological process to remove suspended solids and to promote growth of biomass in a continuous upflow moving bed filter. The technology can be applied in both industrial as municipal (waste) water treatment schemes, where it is usually applied as tertiary treatment for polishing effluent. The company is looking for manufacturers and companies with knowledge of the local waste water treatment sector and offers a licence agreement.



## Zero energy water pump

(Ref: 11 GB 77dz 3LQG)

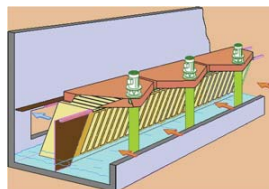
A UK SME has developed and patented a water flow activated pump which can continuously pump 30000+ litres of water a day and requires no external power source providing farmers/ users with water and energy economic and environmental cost savings. It is used in agriculture to water livestock as well as in horticulture, irrigation, aquaculture and flood control. The company are seeking partners for technology cooperation, licensing opportunities and adaptation to local markets.



## Gas Liquid Contact System

(Ref: 11 NL 60FI 3LCB)

A Dutch SME has developed a technology for aerating, concentrating, thickening, distillation, evaporation and stripping of liquids and for scrubbing of (hot) gasses. The technology provides a very



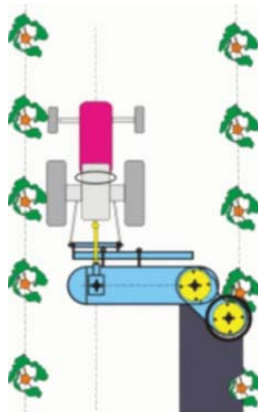
intensive gas/liquid contact, offering an optimal exchange of components at minimal energy input. The Dutch company is looking for SME's with specific knowledge of the local water and wastewater market. The company offers a licence agreement.

## New tractor attachment machines for soil cultivation "in row" (under crowns) in orchards, vineyards, blackberry and other plantations

(Ref: 11 RB 1B1O 3LNN)

SME from Serbia offers licensing agreement in the field of tractor attachment machines production industry. Company has developed and manufactured absolutely unique tractor attachment machine for soil cultivation "in row" (under crowns) productions, in order to fulfil all environmental standards and regulations.

Advantage over similar products is the original solution that enables going round the trees in row without using hydraulic components and bring a better quality of tillage.



## Outside feeding system for dairy barns

(Ref: 11 NL 60AH 3LJC)

A Dutch company is specialized in stockfarming and dairy barns. Customers are distributors and producers of agricultural equipment and e.g. milking machines. The company developed a new concept for cow feeding in cattle barns, consisting of an outside feeding platform and a turning wall, which can be opened inward for feeding, and outward for ventilation. The Dutch partner is interested in commercial agreements with technical assistance with companies active in the agricultural sector.



### Micro Wind Turbine Battery Charger

(Ref: 11 GB 77dz 3LCJ)

This innovative SME based in the South West of England offers a unique vertical axis wind turbine battery charger for use in off shore applications, general marine industry, fisheries, yacht builders and remote located equipment. Its main advantage is its unique design, high performance and compact design. The company seeks commercial agreement for distribution and potential licensing.

### Wind Turbines between 30 and 37 kW

(Ref: 10 TR 99PA 3K3V)

A Turkish SME experienced in mechanical systems for marine industry, has designed and developed a medium scale (30-37 kW) wind turbine that is operated with grid connected and is used cost effectively in grid connection. It is also monitored and controlled remotely. This project is started by incentive of Turkish Scientific Research Board. The company is looking for partners for joint venture and licensing agreements and open for foreign direct investment to increase the manufacturing capacity.

### Magnetohydrodynamic (MHD) generator expertise, technology and solutions are sought for applications on transforming kinetic energy of gas streams to electricity

(Ref: 11 FI 3011 3LAL)

A Finnish SME active in the field of distributed energy production systems using wood and other biomaterials as fuel has developed effective and environmentally friendly systems and solutions. The company wants to improve the efficiency of its products by developing new additional features and process option to its product package. Therefore, magnetohydrodynamic (MHD) generator technology expertise or ready solutions are sought for technical and commercial cooperation.

### Sustainable Materials Biomass Sourcing

(Ref: 11 BE 0213 3LB1)

A Brussels-based multinational active in the consumer goods sector and willing to meet its sustainability goals is looking for proposals and/or partners with developed capabilities and/or leading-edge technologies in Asia for the supply of large quantities of sustainably-sourced lignocellulosic biomass. Different kinds of collaboration are sought.

### Mobile and modular anaerobic digestion system with low installation threshold

(Ref: 10 GB 40n6 3JQT)

A company based in the South-East of England has developed a modular and mobile anaerobic digestion system, which is compatible with a range of waste streams, including dairy, industrial and urban waste. As the system needs no supporting infrastructure or planning permission for installation, it is ideally suited for small companies and private individuals. The company is looking for partners to fully test and develop the system, including adaptation to varying waste streams and conditions.

### Monitoring web system for photovoltaic plants

(Ref: 11 ES 29h3 3L9D)

A Spanish company is specialised in the automation and control of industrial processes. They design and manufacture prototype machines for different sectors and develop traceability and monitoring software. The company has developed a monitoring web system which allows companies to monitor remotely through internet the current state of photovoltaic plants. The company is looking for commercial agreements with technical assistance for adapting and implementing the software in energy companies.

### Expertise and development in wind turbine drivetrain technology

(Ref: 11 GB 4303 3LCN)

A UK company offers expertise and development services in wind turbine drivetrain technology. The company provides design expertise, analysis and simulation technology for wind turbine drivetrains, gearboxes and bearings and to has experience of working on turbines in the 750kW to 5MW range. The company currently seeks partners for technical cooperation and collaborative research leading to improved wind turbine performance and reduced costs.

### Sustainable Materials Sugar Conversion

(Ref: 11 BE 0213 3LB2)

A Brussels-based multinational active in the consumer goods sector and willing to meet its sustainability goals is looking proposals and/or partners with developed capabilities and/or leading-edge technologies in Asia for the conversion of biomass-derived fermentable sugars (e.g. glucose, xyloses). Different kinds of collaboration are sought.

### Co-operation profile details from Enterprise Europe Network South West

(Ref: 20100816026)

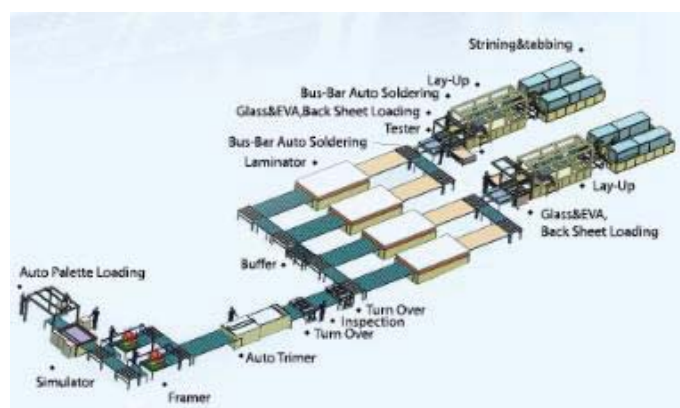
A UK based company has developed an innovative process for propagating, planting and harvesting Miscanthus rhizomes (elephant grass). The crop can be used as fuel or processed into other energy products. The client is looking for European distributors to sell and market the process, machinery and techniques to growers, and to create markets in the power supply sector for biofuel. Commercial partnering opportunity. Partner expertise sought:

- Experience of Waste Water treatment and anaerobic digestion solutions
- Understanding of economics of Renewable biogas sector
- Background in waste water management and biogas solutions
- Well connected in the waste water industry

## Automation equipment for solar energy module

(Ref: 11 KR 9A9E 3LB3)

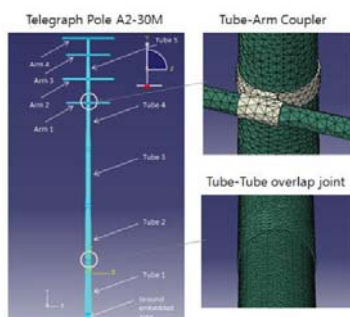
A Korean SME has developed a piece of automation equipment which can be used in solar system, solar cell, and solar inverter. It is an automation equipment for solar energy module and it provides efficient manufacturing process, and improves product quality. Partners interested in joint venture are sought.



## Composite materials for wind-power generating tower

(Ref: 11 KR 9A9E 3LB4)

A Korean SME has developed composite materials for wind-power generating tower. The technology is a manufacturing method to enable absorbing macromolecule resins equally from the surface of reinforcing fibers. It spreads macromolecule resins in reinforcing fibers, and improves product quality. Partners interested in licensing, joint venture agreement and financial resources are sought.



## Dynamic Tidal Power Plant

(Ref: 11 KR 9A9E 3LB7)

A Korean company has developed construction technology which can be effectively utilized at tidal power plant. TECHNOLOGY is a building method for generation of tidal power energy through operation of turbine in interactive direction. TECHNOLOGY generates both vertically and horizontally for gaining high efficiency. Partners interested in technical cooperation, joint venture, manufacturing agreement, commercial agreement with technical assistance, and financial resources are sought.

## Technology enabling pyrolysis/gasification from wood biomass

(Ref: 11 IT 53U1 3LKF)

A Southern Italy company operating in renewable energies is looking for technological partners in the field of combined heat and power, able to start pyrolysis/gasification processes from wood biomass.

## Hydrogen supplying fuel processor

(Ref: 11 KR 9A9E 3LB6)

A Korean SME has developed a fuel processor which transforms domestic gas to supply hydrogen. The innovation is a hydrogen supplying fuel converter, including steam reforming of city gas and natural gas; hydrogen gasification; selective oxidation in its main process. It shows outstanding heat supply, and is feasible of densification and transformation of low energy fuel. Partners interested in a commercial agreement with technical assistance are sought.

## New sampling method for mixed household waste allowing its precise analysis for further use

(Ref: 11 DE 1067 3LBJ)

A German university has developed a new method for sampling mixed low-density bulk waste materials (particle size < 40 mm) by compressing randomly selected batches into compact solid bodies/moulds. Very small analytical samples < 1g taken from these representative moulds allow reliable high precision analysis of composition and calorimetric value to be evaluated for further use as secondary raw material or refuse derived fuel. Partners are sought for integration in existing and new applications.

## Vertical Axis Wind Turbine - operating virtually quiet, maintenance free

(Ref: 11 DE 094I 3LBA)

A German SME has developed wind energy plants with vertical axes. An important component of the technological innovation is the new rotor concept. Compared with conventional vertical axis plants it makes an increased energy output possible with large reduction of the otherwise usual, annoying background noises of all wind-power plants. The company is looking for partners from industry and/or research for technical cooperation, manufacturing agreement and/or a commercial agreement.



## Chain grate stokers solution for burning wood pellets, wood chip or food waste such as oat or wheat husks

(Ref: 11 GB 4201 3LAF)

A UK company manufacturing hot water boilers, steam boilers and waste heat boilers is looking for innovative chain grate stoker solutions for burning wood pellets, wood chip or food waste such as oat or wheat husks. The solution should be able to be integrated with existing company technologies in order to develop an innovative kind of boiler. All technical and commercial collaboration options will be assessed.

## High performance chargers for hybrid and/or electric vehicles

**(Ref: 11 NL 60AH 3LDE)**

A Dutch SME is specialized in the development and production of power conversion systems for hybrid and electric vehicles. The SME offers R&D expertise, co-engineering and production capacity for amongst others chargers for electric vehicles. Main advantages are enhanced performance regarding energy losses, smart and light-weight design, battery lifetime and customization. The Dutch SME is interested in commercial agreements which can be supported by technical assistance.

## Autonomous small low-maintenance vertical axis windmill of 3 KWatt installed power

**(Ref: 11 RU 86FG 3LDY)**

A small Russian enterprise from Chelyabinsk working in the field of energy saving developed a small low-maintenance vertical axis windmill of 3 KWatt installed power. The windmill has a higher efficiency (0.38) which does not depend on the wind direction. The company seeks partners for further joint development and organization of large-scale production.

## Innovative modular wind towers

**(Ref: 11 IT 54V9 3K8Q)**

An Italian company active in the sector of renewable energy developed an innovative modular tower for wind turbines that can be easily constructed in location. This modular towers allow the creation of cost-effective renewable energy plants. The company seeks other companies as partner for technical cooperation and commercial agreement.

## Automatic control system for power plants running on syngas (CO+H2)

**(Ref: 11 RU 86FG 3LFY)**

A Russian industrial SME from Yekaterinburg developed a system of automatic control for adjustment and control of power plants running on syngas. This system enables to keep unchanged the basic structural elements of an electrochemical power plant when the load is changing significantly, as well as to adjust quickly the operating mode of the plant according to its operational characteristics. The SME seeks partners for joint further development or commercial agreement with technical assistance.

## Innovative hot water boiler for commercial heating and/or industrial process application

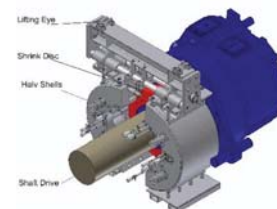
**(Ref: 11 GB 4201 3LAZ)**

A UK company developed an innovative hot water boiler for commercial heating and industrial process applications. It incorporates a unique boiler tube design which achieves over 80% increased heat transfer by incorporating helical ribs on internal walls reducing fuel consumption and minimising maintenance need. It covers a duty range between 1000kW and 6000kW with working pressure of up to 20 bar/g. The company is looking for technical and/or commercial cooperation.

## Hydraulic shrink disc tool for wind energy plants

**(Ref: 11 DE 17A1 3LD2)**

A German engineering company developed a shrink disc tool for the production of wind energy plants. The new developed tool reduces not only the time for assembling the wind energy plant significantly but also the assembling costs. The engineering company is looking for a commercial agreement with technical assistance.



## Technology performing anaerobic digestion for liquid biomass

**(Ref: 11 IT 53U1 3LE2)**

A Southern Italy company operating in renewable energies is looking for technological partners in the field of combined heat and power, able to deliver CHP production lines according to market's needs. The partner sought should be strongly experienced in anaerobic digestion for liquid biomass, with proven skills in the field of power production.

## Biofixation of Carbon Dioxide (CO2) by Microalgae

**(Ref: 11 IS 81ET 3LLJ)**

An Icelandic SME, has developed a low cost energy efficient LED (Light Emitting Diode) based photobioreactor (PBR) system suitable for biofixation of carbon dioxide (CO2) by microalgae. The patent pending PBR system is scalable, easy to install and can use either sunlight or artificial LED lighting for 24hr continuous operation. The company seeks partners interested in commercial/technical collaboration and licensing agreement.

## Environmentally friendly and economical cleaning technology for tube bundle heat exchangers to regain full capacity even from complete tube blockings

**(Ref: 11 AT 0102 3LKN)**

An Austrian company has developed a cleaning equipment for most efficient inner tube cleaning of straight tube heat exchangers. It smoothly removes even hard scalings and tube blockings without any chemical pre-preparation. Full operational capacity can be regained. Low consumption of energy (6 kW/h) and reduced water loss (only 8 l/min.). The company is looking for industrial partners and companies active in aftersale services heat exchanger maintenance.



### Low environmental impact materials for micro wind turbines

(Ref: 11 IT 532W 3LIY)

A small Italian SME expert in innovative engineering solutions in wind energy sector is developing an innovative variable geometry vertical axis wind turbine, wanting to use the most performing materials to obtain lightness and strength. Composite materials need to be used, overall carbon fiber and fiberglass, within high strength metals. The company is searching for SMEs or R&D centers who have used low environmental impact materials also in other sectors in order to test them in the turbine.

### Biogas Generation Technology from Animal Feces

(Ref: 11 TR 99PB 3LJL)

A Turkish breeding dairy farming company having six thousand animals is looking for technology that will generate biogas from animal feces. The company wants to generate electricity with the requested technology and would like to use the waste after biogas generation as fertilizers. Preferably, technology shall be already on the market. Company is looking for a commercial agreement with technical assistance.

### Innovative Wind Power Station

(Ref: 11 RU 86FG 3LL3)

A Russian SME from Nizhny Novgorod developed a construction of a vertically-axial wind power station, which has a rated power of 5 to 100 kW. The constructional, technical and operational characteristics make it possible to install wind power station within residential areas on the roofs of buildings. This device can be used to supply electric power to private homes, villas, shops, cafes, farms, etc. The company seeks partners for further testing and manufacturing of power stations.

### FP7 - TowerPower - Continuous monitoring of the structural condition of the tower and supporting floating structure of floating and static offshore wind turbines

(Ref: 11 GB 41n7 3LLM)

A consortium led by an East of England based organisation requires an Association from the field of non-destructive testing, materials, construction or marine/offshore energy sectors for an FP7 Research for SME Associations project. The aim of the project is to develop suitable and reliable techniques for monitoring wind turbine tower structures. The Association will be involved in the dissemination activities and will be required to provide knowledge about the industry/sector they represent.

### A technology to produce electrical energy from hazelnut shells is sought

(Ref: 11 ES 252K 3LM2)

A Spanish cooperative working in the hazelnut production is looking for a method to convert solid biomass from hazelnut shells into electrical energy. They produce around 500 tonnes hazelnut shell waste per year. They are looking for a company or a technological centre interested in a technical cooperation.

### Furnace using high humidity biomass from olive oil mill residues for use in pilot power plant

(Ref: 11 GR 49R2 3LQZ)

An olive oil producing company in Greece is planning to install a pilot power plant (0.5MW) that will use solid waste coming from 2-phase olive oil mills as biomass fuel. The furnace used must be able to burn high humidity (55% - 65%) fuel with minimal pre-processing. The plant should be designed with the potential to attach more furnaces if needed in the future to increase power capacity. The Greek company is looking for commercial agreement with technical assistance.

### Development of energy-saving equipment for gasification of biofuels

(Ref: 11 RU 86FG 3LM1)

A Russian innovative SME from Ekaterinburg developed an energy-saving technology for gasification of various solid organic fuels (wood waste, husks, low-grade coal...) Gasification takes place in conditions of high-speed heat and mass transfer at low temperatures ~600-800C. Pilot prototypes of vortex gas-plants of various capacities (from 0,3 to 2,5 MW) were developed, manufactured and field-tested. The company seeks partners for commercial agreements with technical assistance, joint development.

### Enhancement of biogas production in anaerobic digestors

(Ref: 11 ES 252K 3LOA)

A Catalan research center located in Barcelona (Spain) has developed a new delivery system for increasing biogas production from organic waste. This system is based on the increase of anaerobic digestion, and consequently of methane production, due to the presence of Fe+2/Fe+3 ions, introduced into the reactor in form of iron oxide nanoparticles. Partners interested in licensing, technical cooperation and commercial agreements with technical assistance are sought.

### Resource-saving technology for microbiological utilization of organic wastes

(Ref: 11 RU 86FG 3LMC)

A Russian university from Kaluga developed a resource-saving technology for microbiological utilization of organic wastes. Utilization of food wastes under this technology allows obtaining biogas with a high content of methane (over 90%) and water, thus providing both power and environmental solutions.

### Technology of methane and electric energy production based on own waste

(Ref: 11 PL 62AP 3LG8)

A Polish company is searching for methane and electric energy production technology based on own waste. A company is looking for a technology line for production of methane, electric and heat energy from sawdust and biomass. A company is looking for partners for commercial agreement with technical assistance.

A large, white, stylized letter 'C' is centered on the page. It is a thick, curved shape that is open on the right side. The text 'FIND NEW INTERNATIONAL BUSINESS PARTNERS' is written in a dark grey, sans-serif font across the middle of the 'C'.

FIND NEW INTERNATIONAL BUSINESS PARTNERS



## What is matchmaking?

---

**Matchmaking in the business sector, is all about getting a lot of different companies and organisations from a particular sector to meet at a matchmaking event, and to help them create new national and international working relationships.**

During these matchmaking meetings, which can be run over 1-2 days, participants can meet new potential business partners. Meetings are normally arranged in advance, and can typically last for 30 minutes, which is enough to see if there is the potential for future co-operation. Matchmaking is the quickest and cheapest way to build up new contacts in other countries.

Most matchmaking events are held in connection with international trade fairs and give your company the chance to meet with other businesses relevant for you – whether your visit is to buy, sell or simply to learn about new technologies.

There are many matchmaking events in Europe and a small selection is shown in this edition of TechMatch. If you want to hear more about an event, or wish to take part, please contact one of our consultants.

---

# International Matchmaking Events

## Energy is Future 2011

"International Electricity Summit/EIF 2011" is a platform in which many different topics concerning electricity generation in Turkey and all around the World will be discussed. The purpose of the congress which will be held with supports of Republic of Turkey Ministry of Energy and Natural Resources is to evaluate different electricity generation sources multi-faceted and to create an atmosphere in which latest developments and applications could be discussed and handled in every detail.

Throughout this conference, a brokerage event between domestic and foreign companies will be organised with supports of Technology Development Foundation of Turkey; a partner of Europe Enterprise Network- BSN Anatolia Consortium and Republic of Turkey Prime Ministry Investment Support and Promotion Agency.

Congress will be held in Ankara Sheraton Hotel & Convention Center from 14 to 16 September 2011. Representatives of many national and international energy companies and also many academicians, bureaucrats and representatives of non-governmental organizations will attend to the congress.

### Further Information and Online Registration

<http://www.energy-congress.com/>



INTERNATIONAL ELECTRICITY SUMMIT  
14 - 15 - 16 SEPTEMBER 2011

**Date:**

14-16 September 2011

**City/country:**

Ankara, Turkey

**Sectors:**

Energy

**Registration:**

2 September 2011

## SPACE 2011 - Livestock brokerage event

A Brokerage Event will be held on the occasion of the SPACE exhibition in Rennes, France from the 14th to the 15th of September 2010. The possibility for the exhibitors and the visitors to meet face to face during planned meetings (30 mn) for commercial or technological partnerships.

With 107 327 visitors in 2010 the SPACE exhibition is the essential international show for livestock professionals in every sector: cattle (dairy and beef), pigs, poultry, rabbits, sheep and goats.

### SECTORS MOST REPRESENTED BY EXHIBITORS:

- Animal feed
- Livestock buildings
- Livestock equipment
- Breeding, artificial insemination, hatcheries
- Handling, loading and transport on the farm
- Treating farm effluent
- Animal health
- Agri-energy
- Milking equipment
- Water treatment
- Seeds

### Further Information

<http://uk.space.fr>

**Date:**

14-15 September 2011

**City/country:**

Rennes, France

**Sectors:**

Agriculture - Forestry  
Veterinary  
Food - Agro Industry

**Registration:**



# International Matchmaking Events

---

## ANUGA Matchmaking

Over 6,500 exhibitors and around 150,000 trade visitors. Almost 300,000 m<sup>2</sup> of inspiration, ideas and innovations. ANUGA is not only the largest food and beverage fair in the world; it's also the sector's most important fair for new markets and target groups.

In order to help small and medium-sized companies make full use of this potential to find business, technology or research partners, Enterprise Europe Network organises a Matchmaking Event from October 10th - 11th. The Matchmaking will be open to all sub-sectors of the food industry.

### Why participate in a Matchmaking Event?

- You meet committed potential business partners – and we arrange the meetings for you!
- You choose your meeting partners at your desk (at home). Your choice is based on concise company profiles.
- We offer you support before, during and after the event, e.g. by helping you to formulate an informative cooperation profile or accompanying you to your meeting.
- This way, you can make better use of your time at the exhibition.

### Further Information

<http://www.b2match.eu/anuga2011/>

---



**Date:**  
10-11 October 2011

**City/country:**  
Cologne, Germany

**Sectors:**  
Agrofood

**Registration:**  
16 September 2011

## RIGA FOOD brokerage event

RIGA FOOD 2011 is the 16th International Trade Fair For Food Industry, Drinks, Food Processing Technology and Packing International Food Competition.

In 2010 more than 550 exhibitors from 35 countries participated in RIGA FOOD, and more than 35,000 visitors were registered.

This year there is an opportunity to participate in a Brokerage Event organised by Enterprise Europe Network Latvia (Latvian Technological Centre), and kindly hosted by BT1. Also other Enterprise Europe Network nodes are invited to be co-organisers of this event. The Brokerage Event will enable its participants to make fruitful contacts with potential business and research partners from all over Europe, especially Baltic countries.

Participants are invited to publish their technology profiles in an online catalogue. Individual bilateral meetings will be booked in advance and will be pre-arranged and assisted by Enterprise Europe Network Latvia staff.

### Who should attend the event?

- Small and medium-sized enterprises, offering or using new technologies.
- Researchers/developers of innovative technologies.

### Further Information and Registration

<http://www.bt1.lv/bt1/rigafood/?link=10000000>

---



**Date:**  
9 September 2011

**City/country:**  
Riga, Latvia

**Sectors:**  
Agricultural and marine resources and products

**Registration:**

A large, white, stylized letter 'H' is centered on the page. The 'H' is composed of two vertical bars and a horizontal bar connecting them in the middle. The text 'TECHMATCH IS PRODUCED BY' is centered horizontally across the middle bar of the 'H'.

TECHMATCH IS PRODUCED BY

# EDITORIAL

TechMatch is produced by Agro Business Park, on behalf of the Enterprise Europe Network in the Nordic regions.



AGRO  
BUSINESS  
PARK

Niels Pedersens Allé 2  
DK-8830 Tjele

Tel: +45 8999 2500  
Fax: +45 8999 2599  
info@agropark.dk  
www.agropark.dk

## Editorial staff:



**Simon Poulsen**  
Agro Business Park  
Tel: +45 8999 2501  
sp@agropark.dk



**Mette Toft Christensen**  
Agro Business Park  
Tel: +45 8999 2503  
mtc@agropark.dk

## Facts about Enterprise Europe Network

### Who are we?

- 580 organisations
- 5000 experienced personnel
- Activities in 48 countries

### How can we help you?

- We can help your company find relevant trading partners
- We help SMEs develop new products, open new markets and provide information on EU opportunities
- We advise SMEs on technical issues including IPR, standards and EU legislation
- We operate as an intermediary between entrepreneurs and EU decision makers and can help your company be heard in Europe



*Business Support at Your Doorstep*

[www.enterprise-europe-network.ec.europa.eu](http://www.enterprise-europe-network.ec.europa.eu)