

Project Description

Title Injection system for showers to reduce water.
Sector Clean Tech
Purpose To create and show the principle for new environmental friendly showers to fit both Denmark and China.

Private lead ekoakva (formerly Kimpordex ApS), Herningvej 43, 8600 Silkeborg
POC Bent Vestergaard, bent@kimpordex.dk, +45 8682 8900

Public lead Danish Technological Institute, Centre for Ideas and Innovation
POC Morten Lunde, molu@teknologisk.dk, +45 7220 2910

Partners Shanghai Glary Trading Co., Ltd, Xiamen CoolD Sanitaryware Industrial Co. Ltd. and Shandong University.

Description Up to 40% of the heating in private homes in Denmark is used for heating up the shower water. This both involves the heating process for showers but also the water consumption. In public sports arenas this is even higher. Most of the water used for shower is far higher than the quantity needed for a shower.

Water saving activities is well-known as a water reduce function, but this only involve saving of water – not the feeling by having a shower as many other functions has to be added such as softness in water drops, speed, feeling, etc.

The project sees to reduce the volume of water without compromising the feel of having a shower. It is expected that a simple investment can save 20 – 25% energy in private homes.

Innovation through collaboration

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Project Description

- Title** Export configurator and Clean Tech platform for sustainable cities and buildings for the Chinese market.
- Sector** Clean Tech
- Purpose** To establish open technical platform and user interface for refrigeration heating system in the Chinese market with a separate control module and calculation tool.
- Private lead POC** Klimadan, Rømersvej 30, 7430 Ikast
Henrik Bjørn Andersen, hba@klimadan.dk, +45 2340 2820
- Public Lead POC** Danish Technological Institute, Centre for New Industrialization
Anders Thomsen, ant@teknologisk.dk, +45 7220 2236
- Partners** Factotech, Saseco, Shanghai Etopia Building Co. Ltd and COWI China.
- Description** The export configurator formed as the digital platform for energy network in the Region Central, but will also be included as a platform for other companies in Denmark with an interest in exporting to China about sustainable cities and buildings.

The export configurator is network marketing, innovation and sales platform in the Chinese market. It is a knowledge base for listed buildings and delivered energy solutions and operating systems. In addition there will be a web-based decision support tool for sustainable cities and buildings that can guide Chinese Semitic developers and end users around the choice of level of ambition for their specific housing or urban area.

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Project Description

Title Developing safety noise for 2-wheeled electric vehicles.
Sector Clean Tech
Purpose To perform a feasibility study with the ambition of clarifying the business market potential regarding noise/sound for 2-wheeled electric vehicles in larger Chinese cities.

Private lead ECTunes ApS, Chr. M. Østergaardsvej 4A, 8700 Horsens
POC Thomas Gadegaard, tga@ectunes.com, +45 2121 8662

Public lead DELTA
POC Asser Kalsbøll, aka@delta.dk, +45 7219 4328

Partners Tongji University.

Description The market expectations are large and unexploited - the overall goal is to offer the market a sound/noise device in collaboration with Chinese partners. This includes documenting that adding artificial noise/sound to E-Bikes will improve traffic safety and limit the increasing number of accidents related to 2-wheeled electric vehicles in China.

Secondly, a pre-analysis of potential customers & supplier, potential research collaboration partners and as well as necessary research in the field of regulatory compliance in China. Furthermore, it is the ambition to test different sound technologies for generating warning sounds and elaborate on ideas for further product development.

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Project Description

Title Personal health management systems in China and Denmark.
Sector IT and Health / Life Science
Purpose To further advance current personal health management systems especially mobile device-based integration, and studying access for various medical devices to transmit their data to the PHMS systems.

Private lead Nabto ApS, Åbogade 15, 8200 Aarhus N
POC Carsten Rhod Gregersen, crg@nabto.dk, +45 8734 5513

Public lead Alexandra Institute
POC Jacob Andersen, jacob.andersen@alexandra.dk, +45 6170 4305

Partners Shanghai Tanrui Info Tech Co., Ltd. and Shanghai Jiaotong University Medical College Affiliated Renji Hospital.

Description The primary focus for the Chinese partners is on citizen's use of and access to personal health management software by use of mobile devices, and also to study device integration. The Danish partners primarily focus on the development of approaches to transmission of data from devices to data integration platforms e.g. PHMS platforms.

The project is based on user driven innovation such as workshops in order to examine what types of medical equipment that can transfer data to personal health management systems as well as how the technical solution is to be established. The project intends to develop prototypes which can be tested in real life settings in one or more Chinese hospitals.

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Project Description

- Title** Green roofs with building integrated PV systems to the Chinese market.
- Sector** Clean Tech
- Purpose** To test green roof solutions for the container house project in Wuxi and to make a feasibility study on setting up green roof business in Wuxi and establish cooperation with local Chinese solar company.
- Private lead POC** Skandek International v/ Ørnfledt ApS, Langelandsvej 3, 9500 Hobro
Peehr Svensson, ps@skandek.dk, +45 4052 5800
- Public Lead POC** Danish Technological Institute, Centre for New Industrialization
Anders Thomsen, ant@teknologisk.dk, +45 7220 2236
- Partners** Protan A/S, Ecovent A/S, Shanghai Etopia Building Co. Ltd and Himin Solar Energy Group.
- Description** In three years China is expected to build over 35 million houses. The market potential for green roof solutions is therefore high, especially if Danish companies cooperate with local Chinese partners to develop a competitive roof concept that is optimized according to market conditions in China.

The green roof solution is based on an open technical platform so that other companies in the Central Denmark Region will be able to be component suppliers to the green roof system. The project centers around an innovative container house project in Wuxi that will be used as use-case for the development of future green roof solution for the Chinese market. Furthermore, the project aims to build up this cluster of green roof solutions in the Yangtze delta area.

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Project Description

Title Solar Air collector: Impact on health of human and buildings, possible energy and maintenance savings in houses etc.
Sector Clean Tech
Purpose To investigate and document of the air drying effect as a result of injecting a solar heated air to a building under Chinese weather conditions.

Public lead SolarVenti, Fabrikvej 8, DK 8881 Thorsø
POC Hans Jørgen Christensen, hjc@solarventi.dk, + 45 8696 6700

Private lead Danish Technological Institute, Centre for Refrigeration and Heat Pump Technology
POC Søren Østergaard Jensen, sdj@teknologisk.dk, +45 7202 2488

Partners Danish Technological Institute, Shanghai Ouma Medical Devices Co. and Ltd. and Dhanghai Shundong Co. Ltd.

Description Solar powered heating and injection of air in unheated buildings are known to have a good effect on the indoor climate and durability of buildings, just as it may be presumed to have a significant positive health effect, but there is a great need to demonstrate the effects scientifically before a collaboration project is initiated.

The Danish partners provide data on functions and services of solar units, as well as collects and processes data in Denmark and China, while the Chinese partners delivers Chinese data and organize the necessary practical conditions and, if needed, authority relationships in connection with measurements, etc. in Chinese buildings.

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Project Description

Title Active houses with ad on solar water heaters on the export configurator to the Chinese market.

Sector Clean Tech

Purpose To test solar water heaters for the container house project in Wuxi and Horsens and to build a 3D parametric model of the solar water heater solutions to be used in the expon configurator and the container house project.

Private Lead AguaSol ApS, Højlundsparken 81, 8355 Solbjerg

POC Morten Fuur, morten@aguasol.dk, +45 4038 2541

Public Lead Danish Technological Institute, Centre for New Industrialization

POC Anders Thomsen, ant@teknologisk.dk, +45 7220 2236

Partners Klimadan, Ecovent, Shanghai Etopia Building Co. Ltd and Himin Solar Energy Group.

Description In three years China is expected to build over 35 million houses. The market potential for solar water heaters is therefore high, especially if Danish companies cooperate with local Chinese partners to develop a competitive platform that is optimized according to market conditions in China.

The solar water heater solution is based on an open technical platform so that other companies in Central Denmark Region will be able to be component suppliers to the solar water heater platform. The goal is to export solar water heater solutions integrated in a sustainable home platform targeted the Chinese market.

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Project Description

Title Conceptual Design & Development of Innovative Products
Sector IT
Purpose The overall objective is to develop a DK/CN business model for enhancing cross boundary innovation within the natural sciences domain and a range of consumer electronic businesses connected to it.

Private lead Bang & Olufsen A/S
POC Søren Bech, sbe@bang-olufsen.dk, +45 3093 0243

Public lead Aarhus University School of Engineering
POC Erik Kristiansen, ekr@iha.dk, +45 4189 3012

Partners Aarhus University, Aalborg University and Struer Statsgymnasium.

Description The project combines skills and business building by bringing Danish and Chinese students and staff together in Shanghai to experience a once in a lifetime camp focusing - within a very limited amount of time - to design concepts and develop innovative products by building up participants' personal skills in producing solutions complying with business rationales in emerging markets.

The project develops and deploys a public private partnership innovation business model in order to learn how it works in China. If successful this business model is to be spread to other business fields e.g. "Health Care Technology Transfer" and "Intelligent Renewable Energy Systems Integration".

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Project Description

Title Analysis of the Danish and Shanghai food safety framework and management mechanisms from field to consumer.

Sector Health / Life Science

Purpose To improve food safety in Shanghai Municipality.

Private lead A group of companies participate:

Systematic, Danish Crown, Arla Foods, IBM, ISI Food Protection, Limo Labels,

POC Private company participation will be coordinated by Torben Huus-Bruun, thb@vfl.dk, +45 8740 5114

Public Lead Knowledge Centre for Agriculture

POC Torben Huus- Bruun, thb@vfl.dk, +45 8740 5114

Partners Shanghai Wonders Ltd, Shanghai Food and Drug Administration, Fødevarestyrelsen, Agro Tech, Agro Food Park, DMRI ((DTI), Landbrug & Fødevarer

Description There is a growing demand of high quality and safe food in China. This is a major challenge for China where a number of incidents related to food safety has occurred in recent years. Denmark is an internationally recognised leader within the food safety area and hence the project aim to transfer Danish knowledge about food safety to China.

An efficient food safety system is necessary in order to ensure domestic food production in China as well as import and export of food. The project contributes to disseminate knowledge of the Danish companies and establish relationships between Danish and Chinese companies.

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Project Description

Title VIP (Visualised ISO Procedures)
Sector IT
Purpose To provide adult learning information about working with quality, the environment and safety management through the development interactive and animated visualizations.

Private lead European House of Quality
POC Anette Svenningsen, as@sherlock.dk, +45 8693 3321

Public lead Danish Technological Institute, Human Resources Development
POC Hanne Schou-Madsen, hsm@dti.dk, +45 7220 3095

Partners Roskilde University, East China Normal University, Institute of Vocational and Adult Education, Sino-Danish Center for Research in Wong and Learning.

Description The project will develop up to five visualizations for use by employees of Chinese companies.

The visualizations will perform on a generic level of knowledge giving employees an overview of and relevant knowledge about why and how to work with processes within quality, environment and safety management.

The project will provide useful knowledge about how to implement health and safety systems in China. In addition, the project seeks to uncover how the use of alternative adult learning methods can meet the learning styles of Chinese employees. The knowledge of how Chinese adults prefer to learn may establish possible new co-operations between Denmark and China.

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Project Description

Title Development of efficient, safe, and traceable milk production in the province of Shanghai – preliminary analysis.
Sector Health/Life Science and Energy/environment
Purpose To develop a concept for milk production established in the Shanghai Province with high production efficiency and traceability to ensure safe milk products for consumption and processing

Private lead A group of companies participate:
S.A.Christensen &Co. (SAC) in mentor role, Frichs A/S, PurFil ApS, RYK business foundation

POC Private Company participation will be coordinated by Arne Munk Agro-Tech, arm@agrotech.dk +45 2114 2926

Public lead AgroTech

POC Arne Munk AgroTech, arm@agrotech.dk +45 2114 2926

Partners Shanghai Municipal Agriculture Commission

Description The milk production has the focus to ensure maximum food safety through traceability, good animal health, management and, “best practice farming”. Lessons learned from this project will be used and exploited in other markets.

It is expected that the production of milk in China will increase due to increased consumption among the urban population and because of increased urbanization. Therefore the demand for many or very large milk production units is increasing. The technological solutions to minimize the environmental and climate impact prepared in this project will also be relevant for other markets.

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Project Description

Title Establishing a clean tech pig production with maximum food safety and high production efficiency in the province of Shanghai

Sector IT, Energy/environment, and Health/Life science.

Purpose To develop a concept for a pig production with high production efficiency and hygienic standard to ensure safe meat products for consumption and processing. The technical solutions must simultaneously minimize impacts on the environment and climate.

Private lead A group of companies participate:

AP Company A/S, AgroSoft A/S, Ikadan System A/S, Wagner Domino A/S, Vissing Agro A/S

Public lead AgroTech A/S

POC Niels Henrik Lundgaard, nhl@agrotech.dk – tel.: +45 8743 8464

Partners Zhejiang (Agriculture) University, Shanghai Animal Husbandry Office, and Shanghai Municipal Agriculture Husbandry Office

Description The project will investigate what the Chinese market demand to ensure the establishment of a clean tech pig production with maximum food safety and high production efficiency. Focus of an efficient production is through genetic material, feed, feeding systems, and livestock constructions that accommodate local conditions in the Shanghai area. Management and “best practice farming” will be supported by involving education and exchanges for Chinese students in Denmark at Bygholm Agricultural College.

AgroTech will on the basis of cooperation with relevant Chinese research institutions and companies produce a report on the key challenges and opportunities. The project will also support the participating companies to develop a go to market strategy and with knowledge about pig farming in China.

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