



Санкт-Петербургский Кластер Чистых технологий для городской среды



Mission of the Cluster.

Making St. Petersburg
environmentally friendly and safe
for the residents of the city,
combining clean technologies in
all sectors of the economy and
supply chains.

Thematic focus areas of Cluster:

- Saving of Energy Resources,
- Energy Efficiency,
- Smart City / Smart Grid,
- Green Building / Ecohouse,
- Waste Management,
- City Transport,
- IT for Cleantech,
- Clean Industrial Processes in urban environment,
- Biofuel,
- Solar & Wind Energy.

The main objective of the Cluster.

Developing and implementing effective and mutually beneficial joint projects and programs (cluster projects) based on the integration of the substantial, financial, technological and other resources of the participants, as well as attracting external funding.



**62 Cluster members** 

In cluster 44,5 thousand people

Products cluster in St. Petersburg in 2018 and 7,5 billion rubles







# **Global Cleantech Cluster Association (GCCA)**



### **BALTIC CLEANTECH ALLIANCE**



**Green Clusters of Russia** 





# Sustainable urban development and circular economy projects 23,12 million euro



### 7 projects



**5** projects







### **INTERREG Baltic Sea Region Programme 2014-2020**

Innovation Ecosystem to foster consumer cleantech markets in the Baltic Sea Region (SMARTUP ACCELERATOR)

Baltic Smart City Areas for the 21st century (AREA 21)

Clean Shipping Project Platform (CSHIPP)

Co-producing and co-financing renewable community energy projects (CO2MMUNITY)

BSR electric - Fostering e-mobility solutions in urban areas in the Baltic Sea Region (BSR ELECTRIC)

**Baltic Industrial Symbiosis (BIS)** 

Using innovation procurement and capacity building to promote Circular Economy (CIRCULAR PP)

Memorandum of Understanding







### **INTERREG Baltic Sea Region Programme 2014-2020**

1. Innovation
1.3 Non-tech innovation

SMARTUP ACCELERATOR

There is a growing interest in consumer clean technology, which is about reducing the environmental burden of consumption and is velocide to resource scarcity, rising energy and fuel costs, digitalisation and automatisation. The project helps exploit arising plustness opportunities in coossumer clean technology for small and medium sized enterprises, start-ups and intermediates in the Bulli. See region by shaping models for activarium.



2. Natural resources 2.3 Energy efficiency

#### AREA 21

October 2017 -September 2020 aving

The ides of the project is to bring together authorstees, energy providers and circless within their city districts to find and apply the best solutions for saving energy, thus decreasing CO2 emissions. To achieve these solutions for saving local and regional authorities from circles around the Baltic Sea to run cooperative planning processes. Such processes they authorities to work together across different sections to understand charges? Insolves and barriers.









### **INTERREG Baltic Sea Region Programme 2014-2020**



The Battic See is one of busiest and most environmentally vulnerable sees in the world. The platform CSHPP closes the gap between research, business and policy making by establishing long-term knowledge exchange among these betworks. This helps the markines industry reduce as environmental bootprint and increase competitiveness at the same time. CSHPP is based on Interreg Battic See Region projects Envisade. Batte LIME, GoLMC, EXPERICOLD,



2. Natural resources 2.2 Renewable energy

#### CO2MMUNITY

When citizens join forces to set up, linance and manage energy production based on renewables in their region, we call it renewable community energy. The project gives municipalities, regional energy planning agencies and citizens' associations across the Ballic Sea region the adormation they need to start and run community energy

Go to project website

O October 2017 -September 2020









### **INTERREG Baltic Sea Region Programme 2014-2020**

3. Transport 3.5 Orban mobility

#### BSR ELECTRIC

The project agms to enhance the use of electric vehicles in city transport systems such as public sector fleets, public reasport and blke sharing in order to reduce CO2 emissions and pollution. The partnership of public authorities, business, academia and NGOS explores the potential of e-



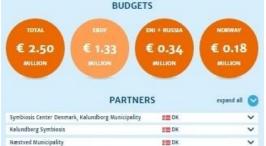
PARTNERS		expand all 😜
Hamburg University of Applied Sciences	- DE	
ATI Küste GmbH Association for technology and innovation	- DE	~
Hoje-Taastrup Municipality	≡ DK	~
Lindholmen Science Park AB	III SE	~
Zero Emission Resource Organisation (ZERO)	HI NO	~
Turku University of Applied Sciences	+FI	~
Green Net Finland	+FI	v
Helsinki Region Environmental Services Authority HSY	+FI	v
Institute of Baltic Studies (IBS)	= EE	~
Tartu City Government	= EE	~
LTD Ardenis	=LV	~
Riga City Council	=LV	~
City of Gdansk	- PL	v
Urban Transport Administration Gothenburg		~
Free and Hanseatic City of Hamburg, Borough of Bergedorf	= DE	~

#### BIS

O October

September 2000

The project promotes industrial symbosis, a concept for sustainable regional development, across the Saikic Sea region. Industrial symbiosis means to connect componies from different industries in order to use one company's waste, in the form of e.g. energy, ingredients or materials, as a resource for the next company. The project establishes peer-to-peer exchange for industrial symbosis practicioners. It develops now business and finance models and yets



		CONTRACTOR CONTRACTOR
Symbiosis Center Denmark, Kalundborg Municipality	EE DK	~
Kalundborg Symbiosis	DK DK	~
Næstved Municipality	DK DK	~
The Paper Province economic association	SE SE	~
Digipolis	4-FI	~
Trendelag County Council	MIN NO	~
Swedish Agency for Economy and Regional Growth	IIII SE	~
Gdansk University of Technology	PL	~
Linköping University	EEE SE	~
Roskilde University	EM DK	~
Tyreman Group LLC	- RU	~
The St. Petersburg house property owners association	- RU	~
St. Petersburg State Geological unitary Enterprise Specialised firm Mineral (SC Mineral)	- RU	~

t. Innovation

#### CIRCULAR PP

A faultional procurement model does not consider re-use or recycling of purchasted goods or services. The project promises a desider procurement model, which takes into account the discoyel of products throughout the supply chair. The development of tools, exchange of beet procuries, training and huilding capacity among procurems, suppliers and policy malons for circular products distinctions to development of more business tradely.





BUDGETS		
€ 2.45 € 1.81 €	+ RUSSIA 0.09 AILLION	NORWAY  € 0.00  MILLION
PARTNERS		expand all
City of Aalborg (AAL)	EE DK	~
City of Malmo (MAL)	SE SE	~
Aalborg University (AAU)	<b>≘</b> ≡ DK	~
Saint Petersburg campus of National Research University Higher School of Economics (HSE)	RU	~
Latvian Environmental Investment Fund (LEIF)	■LV	~
Rzeszow Regional Development Agency (RRDA)	PL	~
Riskswaterstaat – Ministry of Infrastructure and the Erforronment (RWS)	NL	~
Finnish Environment Institute (SYKE)	4-FI	~
Latvian Chamber of Commerce and Industry (LCCI)	= LV	~
Latvian Chamber of Commerce and Industry (LLCI)		







**INTERREG Baltic Sea Region Programme 2014-2020** 

### Cities in the Circular Economy - City of Tomorrow

Thus, upon identifying the crucial need to define strategies, goals and indicators for sustainability, four pioneering cities have now united to work on a circular economy project under the leadership of the city of Malmö (SE): Copenhagen (DK), Helsinki (FI), Sofia (BG) and Utrecht (NL).

Beyond strengthening the connection between these cities, the goal of the project is to be able to provide input and feedback to cities' long term strategies by highlighting how processes can be made easier, smarter, cleaner and more resource efficient.









### **SOUTH-EAST FINLAND-RUSSIA CBC 2014-2020**

Finnish Russian PPP catalyzing new green business" (Cata3Pult)

Green energy regional markets development (GreenReMark)

Energy-efficient systems based on renewable energy for Arctic conditions (EFREA)

Lightweight hybrid wooden composite materials for sustainable construction technology (SUSTECH)

A novel mobile water purification plant (One Drop)





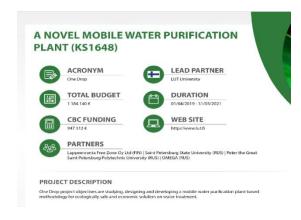


**INTERREG Baltic Sea Region Programme 2014-2020** 









Cata3Pult – Finnish Russian PPP catalyising new green business

- Project time: 1.6.2019 31.5.2022
- Project partners:
  - · City of Lappeenranta (Lead partner)
  - · Green Net Finland
  - · Metropolia University of Applied Sciences
  - Kosmos Ltd.
- St. Petersburg Home Property Owners' Association
- Budget: 852 466 €
  - · City of Lappeenranta 276 677 €
  - GNF 144 786 €
  - Metropolia 62 002 €
  - Kosmos 189 815 €
  - HPOA 179 185 €







## **City project:**

- Energy efficiency of a typical house
  Energy services for the urban environment
  Effective light
  - Clean technologies in transport
  - •Industrial Park of clean technologies
    - Ekolend
    - Educational project "smart city"

Noncommercial Partnership
«The St. Petersburg House Property Owners Association»
http://spbgorod.nethouse.ru/
E-mail: npgorod@mail.ru
Specialized organization of the Cluster

International consortium
"Saint-Petersburg Cleantech Cluster for urban environment"

<a href="http://spbcleantechcluster.nethouse.ru/">http://spbcleantechcluster.nethouse.ru/</a>
E-mail: <a href="mailto:spbCleantech@mail.ru">spbCleantech@mail.ru</a>