



Tartu Regiooni Energiaagentuur  
Tartu Regional Energy Agency



# Tartu Regional Energy Agency Estonia



Martin Kikas  
expert of energy  
Member of Board

# TREA

Tartu Regiooni Energiaagentuur



Tartu Regional Energy Agency(TREA) was founded in 2009 by City of Tartu and Tartu Science Park

in order to promote **sustainable energy and energy management in the region**. The agency concentrates on promoting energy management and relieving the key problems of modern energy management: **energy efficiency, sustainable transport and renewable energy**.

# TREA

Tartu Regiooni Energiaagentuur



TREA acts as independent competence centre in the field of energy (and environment)

Clients:

**energy end-users:** LA, organizations, households, small and medium size energy producers

TREA provides:

1. Consultations and advice
2. Energy Management at all levels: buildings, household, organizations, municipality

# TREA

Tartu Regiooni Energiaagentuur



TREA staff (2018):

total 11 people and 9 on full staff

7 energy, climate or building experts, communication, financial managers



# TREA

Tartu Regiooni Energiaagentuur



TREA is financed by:

75-80 %	from grants
11 %	City of Tartu
12%	from services

budget ca 270 000 year (2015) up to 450 000 (2017)

# TREA

Tartu Regiooni Energiaagentuur



Target area is City of Tartu and South of Estonia

Territory of 6 counties

90 municipalities

3 towns,

77 rural municipalities



Area: 15 533 sq.km

Number of inhabitants

338 836 in



# TREA portfolio

Tartu Regiooni Energiaagentuur

\* SEAP (Sustainable Energy Action Plan) and BEI (Baseline Emission Inventory) of four LA-s

Tartu, 98 000 in

Võru, 13 000 in

Jõgeva, 5600 in

Rõuge, 2500 in



Energy Action Plans and District Heating plans for Municipalities



# TREA portfolio

Tartu Regiooni Energiaagentuur



## Studies:

- \* Overview of Energy consumption in the region (2010)
- \* Overview of Energy sector regulations in Estonia
- \* Study of attitudes and habits of consumers in energy consumption

## Trainings

- \* Energy management curriculum and study course(50 h)
- \* Study visits (Sweden, Austria, Finland, Estonia)
- \* International seminars

Eco-innovations, ELMO, energy management etc

# TREA portfolio

## Tartu Regiooni Energiaagentuur



\* Estonian Energy Savings Week 2010-2014

ca 40 public events all around of Estonia

organized with:



# TREA portfolio

Tartu Regiooni Energiaagentuur



Award „Eco-friendly company of the Year in City of Tartu“(2014)

issued by TREA and City of Tartu

a. best (company) process - KROONPRESS

b. best service – CLAY PROCESSING SERVICES

# TREA

Tartu Regiooni Energiaagentuur



Energy monitoring software E- track (E-print)  
(in beta stage) <http://trea.ee/monitor>

For buildings (real-estate) owners, managers

Consumption data by month (heat, electricity, water)  
Heating data withdrawn with degree days (to make  
heating data comparable)

on-line feedback and consultancy to customer

TREA

Tartu Regiooni Energiaagentuur

BEAN



BEAN- Baltic Energy Agency Network  
issued 2014 by

Energy agency of Skane (Sweden)

Kaunas Regional Energy Agency (Lithuania)

Zemgale Regional Energy Agency (Latvia)

Mazovia Energy Agency (Poland)

Tartu Regional Energy Agency (Estonia)



ENERGIKONTORET  
SKÅNE



# TREA International projects

Tartu Regiooni Energiaagentuur



SecureChain  
sustainable biomass energy



smar+  
en  
ci+y



ECO-FRIENDLY COMPANY OF THE YEAR

RE  
GREEN  
Regional Policies  
Towards Green Buildings

PANEL  
2050

BEAN



BEA-APP  
BALTIC ENERGY AREAS  
A PLANNING PERSPECTIVE



REFURB 2.0



Sun and Wind

access to local energy data  
Meshartility

# TREA

Tartu Regiooni Energiaagentuur



## INTERNATIONAL PROJECTS (11, ongoing):

SMARTENCITY (H2020)- Sustainable Lighthouse cities

SECURE CHAIN (H2020)- secure biomass value-chain for energy

BEA-APP (Baltic Sea Region)- local and regional urban planning

PANEL 2050 (H2020)- roadmaps 2050 and energy forerunners

SOCIALGREEN (InterregEurope)- renovation of socialbuildings

SEC (Est-Lat)- energy savings in communities and at schools

AREA21 (BSR)- energy efficient district

LowTemp (BSR)- low temperature DH grids

Community (BSR) – community energy projects

Baltic ForBio (BSR)- biomass promotion

RenoZeb (H2020)- renovation with prefabricated facadepanels

# TREA

Tartu Regiooni Energiaagentuur



Running topics:

\* Energy Efficiency in buildings

-renovation of 39 000 m<sup>2</sup> from 250 kWh/m<sup>2</sup> to 90 kWh/m<sup>2</sup>

-inspection of heating units of Schools and kindergartens

-“one-stop-shop“ as knowledge center for inhabitants

\*Energy planning:

SEAPs, roadmaps for 2050, District Heating plans

SEAP evaluation for Tartu



# TREA

## Tartu Regiooni Energiaagentuur



# TREA services

Tartu Regiooni Energiaagentuur

---



Thank you for your attention!

Martin Kikas

[martin.kikas@trea.ee](mailto:martin.kikas@trea.ee)

Tartu Regional Energy Agency

[www.trea.ee](http://www.trea.ee)

Facebook, LinkedIn