



Sustainable housing, case Estonia

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Chairman – EKYL

Housing Europe – board member

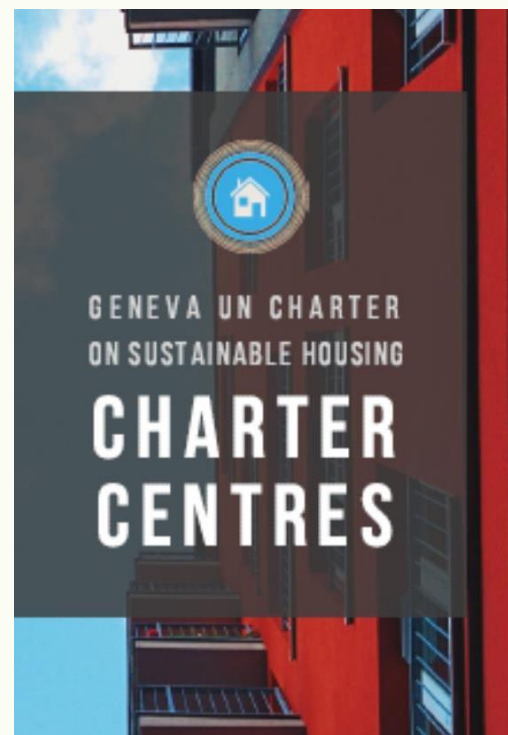
Education

**EKYL's training centre is a GENEVA
UN CHARTER Centre**

Haridus- ja Teadusministeerium
Estonian Ministry of Education and Research



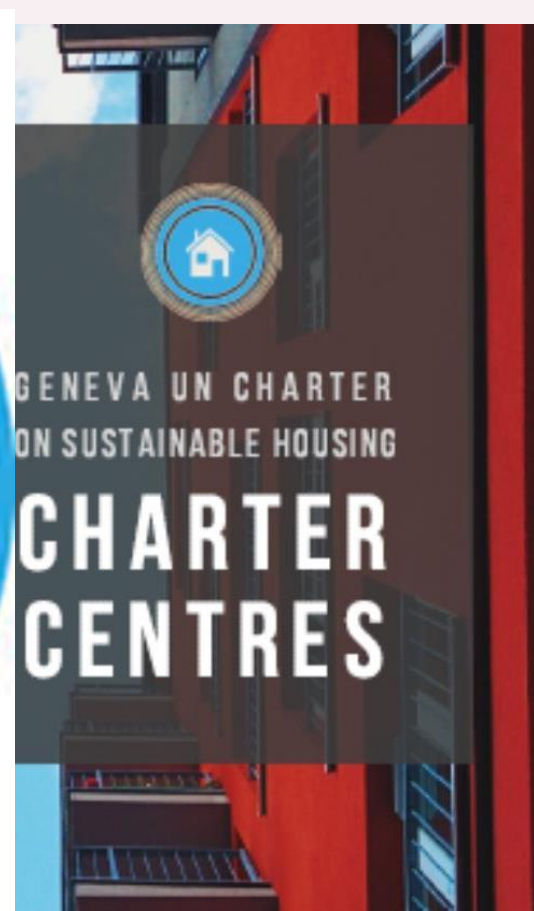
ESTONIAN
QUALIFICATIONS AUTHORITY
Kutsekoda



Женевская хартия ООН об устойчивом жилищном хозяйстве

Platform for the implementation of the Geneva UN Charter on Sustainable Housing

Обеспечить доступ к устойчивому



EKYL's training centre

To offer its members a **universal, professional, high-quality service - legal services, representation in courts, bookkeeping-consultations and trainings in EKYL's training centre.**



Support to Housing Sector Reforms in Ukraine



e – education in housing

- **e – обучения** - лицензия от Министерства Образования на выдачу дипломов профессиональных руководителей квартирных товариществ
- [ОБУЧЕНИЕ РУКОВОДИТЕЛЯ КВАРТИРНОГО ТОВАРИЩЕСТВА](#)



Study visit to Belarus - Conference



XX Baltic Housing Conference 2019

EU
GREEN
WEEK

An initiative
of the  European
Commission



HOUSING
EUROPE

housing <https://www.eugreenweek.eu/en/partner-events/10th-baltic-housing-conference>

Housing Europe Ad Hoc Working Group

16th of April 2019 Tallinn

- 4th meeting of the Ad Hoc Working Group in support of countries with housing systems in transition
- Which housing system to choose & how to finance?



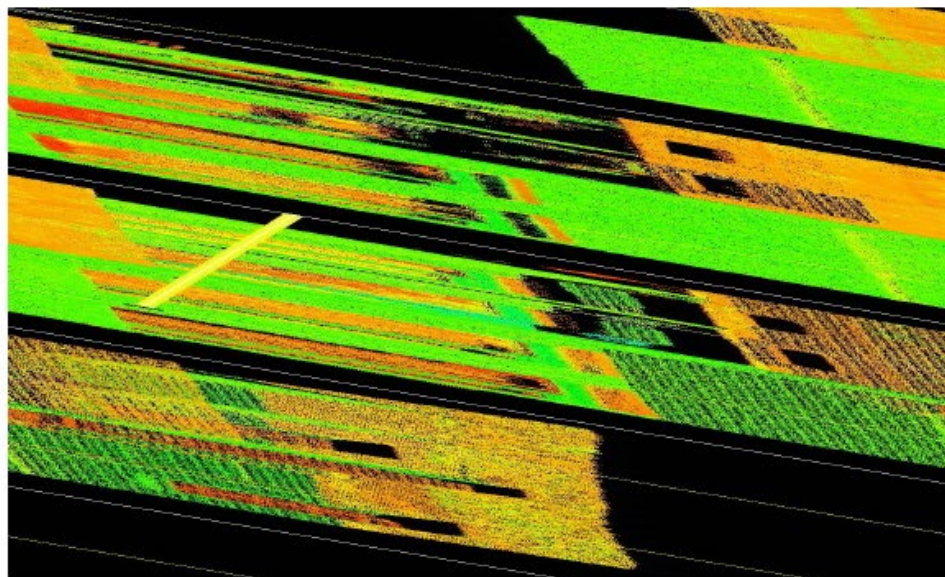
Sustainable innovation



NZEB Renovation with prefabricates elements

LASER SCANNING

- 10 scan stations; 7 reference points
- Average resolution – 8300p/m²
- Duration: 1-2 days

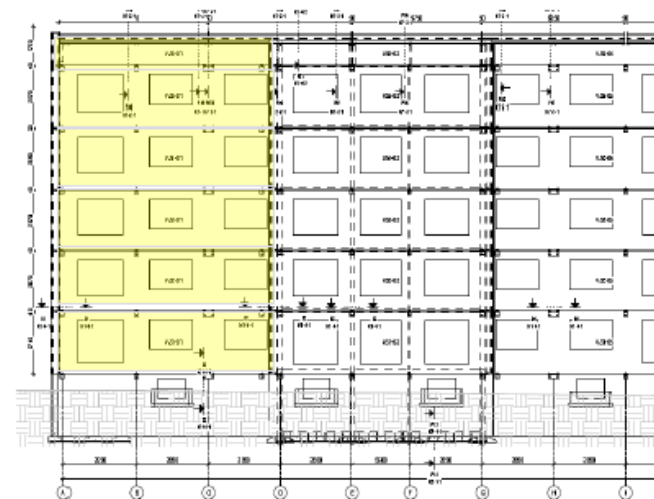
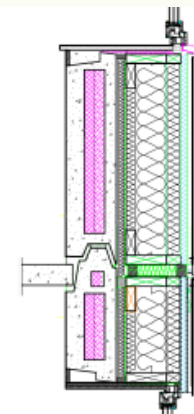


TAL
TECH

NZEB Renovation with prefabricates elements

FACADE

- Dimensions of elements $\sim 9.3 \times 2.7\text{m}$
- 2-3 windows were preinstalled in factory
- Installation of elements: ideally 15...20 minutes



TAL
TECH

NZEB Renovation with prefabricates elements

PRODUCTION OF ELEMENTS

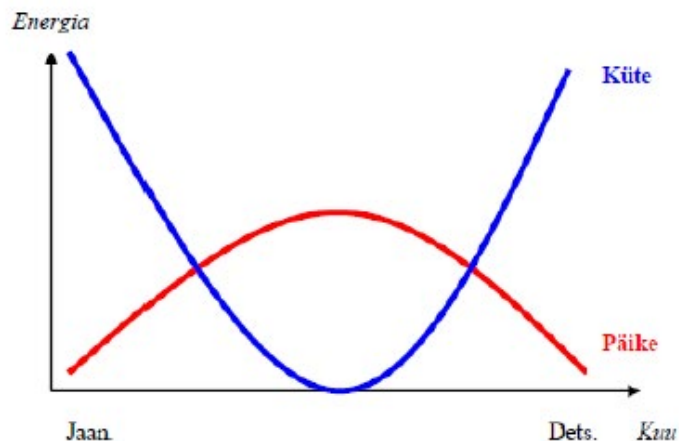


NZEB Renovation with prefabricates elements

RENEWABLE ENERGY

Solar energy:

- PV-panels for electricity
(55 panels with 260 W, total 14 kW)
- Solar collectors for hot water
(50 panels with total area of 100 m²)



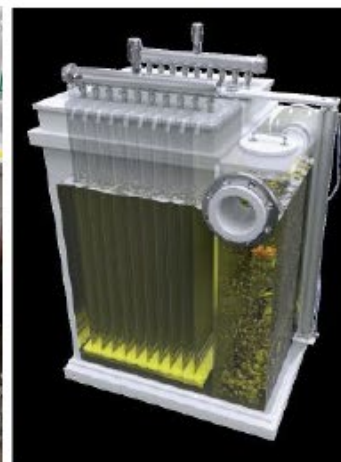
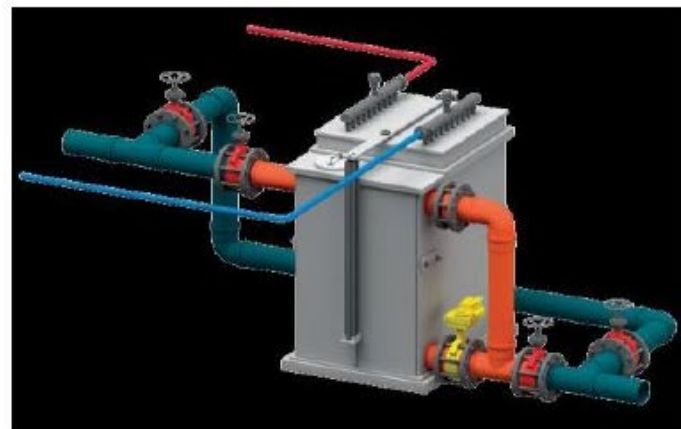
TAL
TECH



NZEB Renovation with prefabricated elements

WASTEWATER HEAT RECOVERY

- Grey water (sinks and showers) system is connected with the heat recovery unit
- Heat of the waste water is used for preheating the cold water before the heat substation



NZEB Renovation with prefabricates elements

INS



Video

Sustainable housing solution

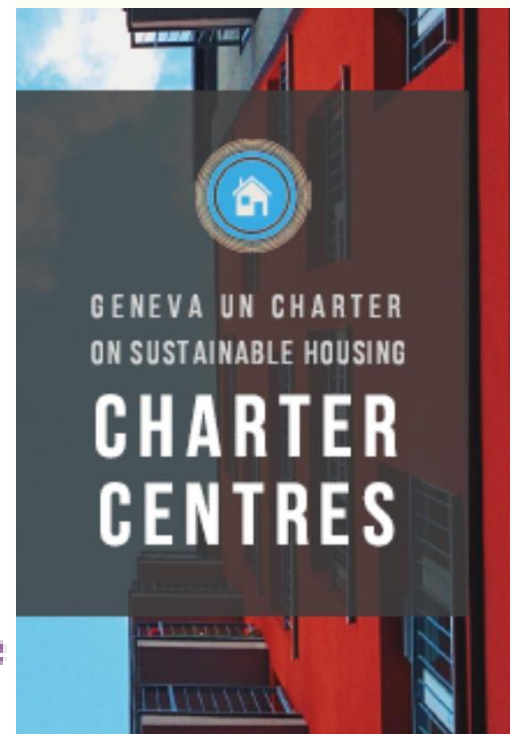


GENEVA UN CHARTER Centre

EKYL's training centre in Estonia can help you !



Frontier Technologies as an Innovative
Tool to Transform Waste to Wealth



Thank you !

And happy World Habitat Day

**SUSTAINABLE
CITIES WEEK**

ENSURING ACCESS TO DECENT, ADEQUATE,
AFFORDABLE AND HEALTHY HOUSING FOR ALL

1-4 OCTOBER 2019 | PALAIS DES NATIONS | GENEVA



October 7

**World
Habitat
Day** 2019

Frontier Technologies as an Innovative
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