





How to become Prosumer

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Vidzeme planning region

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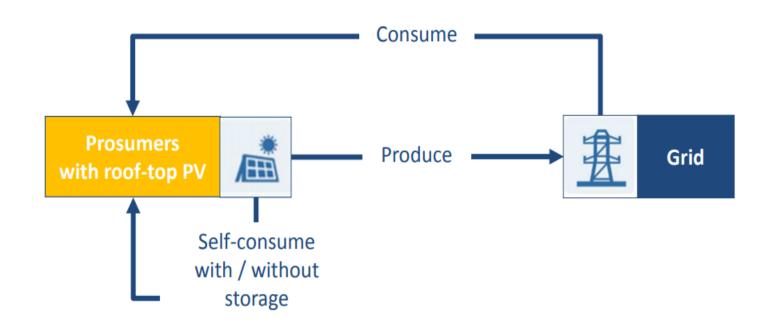


Prosumerism



Prosumer

Prosumers = Producers + Consumers of electricity



Prosumer:

electricity consumer producing electricity to support his/her own consumption and possibly for injection into the grid.*

LTTE

4buildings

*G. Masson (IEA PVPS), J. I. Briano and M. J. Baez (CREARA)

Toolbox

Guide for Prosumerism Guideline for Solar Energy (strategic) Planning Guideline for Step-by-Step to Become a Prosumerist Guideline for Procurement of Solar Energy EFFECT4buildings prosumer tool **Prosumerism Training Material** Good practice Mapping of Potential Solar Panel Ground Areas. Guide Video Presentation

Guideline for Solar Energy (strategic) Planning It gives insight in EU and each participating countries legislation framework regarding prosumerism support schemes tools guidelines PV market trends and costs Global and each countries installed capacity trends Price trends for modules and installation PV technology and its efficiency trends

Guideline for Step-by-Step to Become a Prosumerist

- Planning of the installation
- Harmonizing the PV installation project with local authorities and DNO
 - Submit an application to DNO
 Sign the contract with the DNO
 Installation of PV system
 Install and prepare the plant for operation
 Fill in the annexes of the contract
 The DNO will connect the microgenerator to the grid

Testing, commissioning and operation

Guideline for Procurement of Solar Energy Procurement should include at least main requirements:

- Purpose
- Excisting conditions Regulations **Power Quality (PQ)** Equipment for electricity production Marking, testing and documentation **After final inspection**

EFFECT4buildings prosumer calculation tool

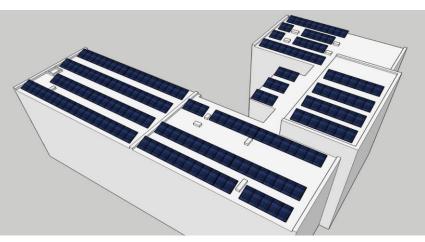
What can you achieve by using this tool?

- 1. To determine the optimal size of the PV system
- 2. To find out how much electricity can be produced from a selected area
- 3. To make financial calculations to identify savings, income, necessary investments, repayment time and the overall profitability of the system

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4. To find out how a storage system would improve PV systems efficiency



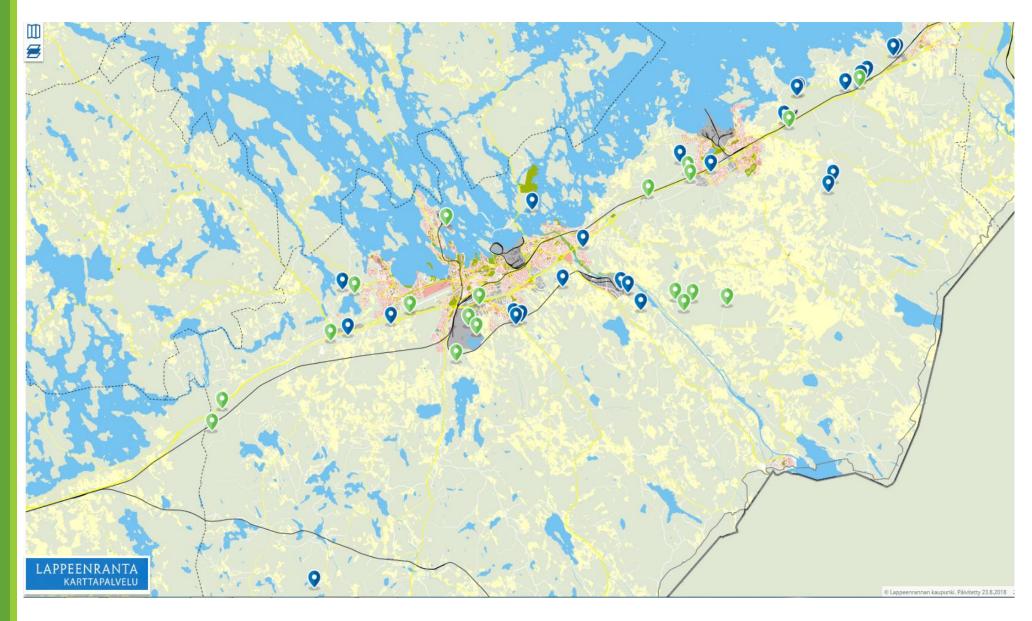
EFFECT4buildings

ults	value	unit
ar electricity production	47 370,82	kWh
ctrical demand/need	142 000,00	kWh
ect own consumption without storage	38 517,20	kWh
n production quota without storage	81,31%	%
ree of self-sufficiency without storage	27,12%	%
d electricity for charging the system	N/A	kWh
n consumption with storage	N/A	kWh
n production quota with storage	N/A	%
ree of self-sufficiency with storage	N/A	%
rage losses	N/A	kWh
re of production in storage losses	N/A	%
r production	8 853,62	kWh
naining power outlet	183 482,80	kWh

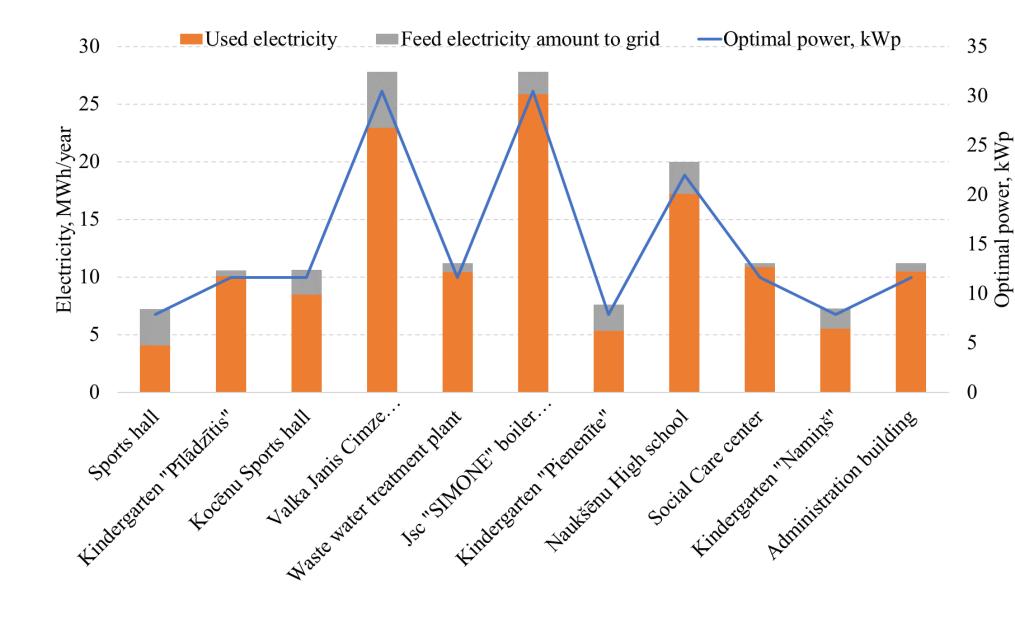
Cases in the project

Legal barriers in relation to producing and selling energy across municipalities Mapping of potential solar panel ground areas Develop an excel tool for calculating the profitability **Approbation of EFFECT4buildings calculation tool** Guide for procurement of photovoltaics systems Measurement and verification (M&V) plan for purchasing PV panels. Series of trainings and workshops

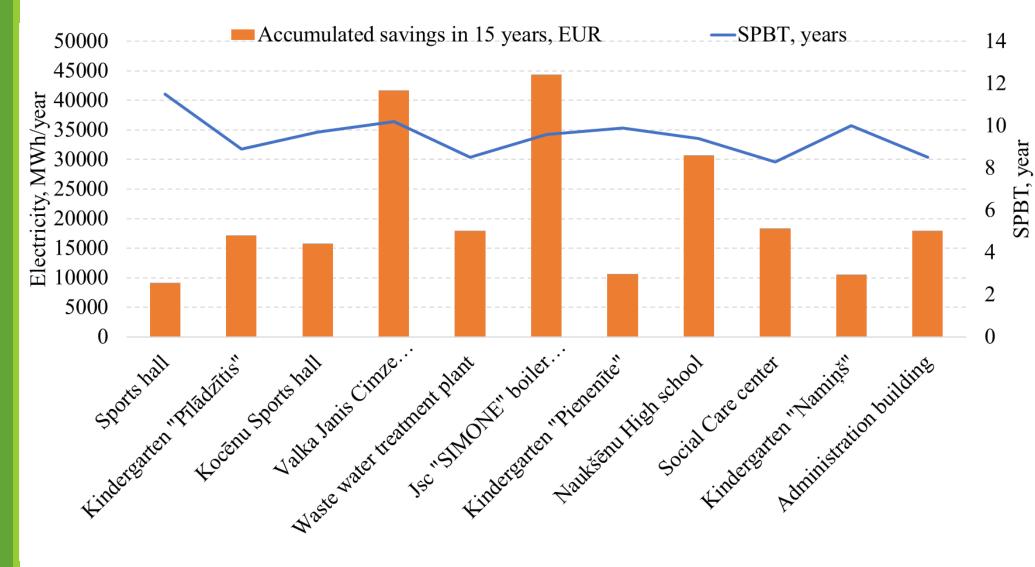
Mappingofpotentialsolarpanelgroundareas



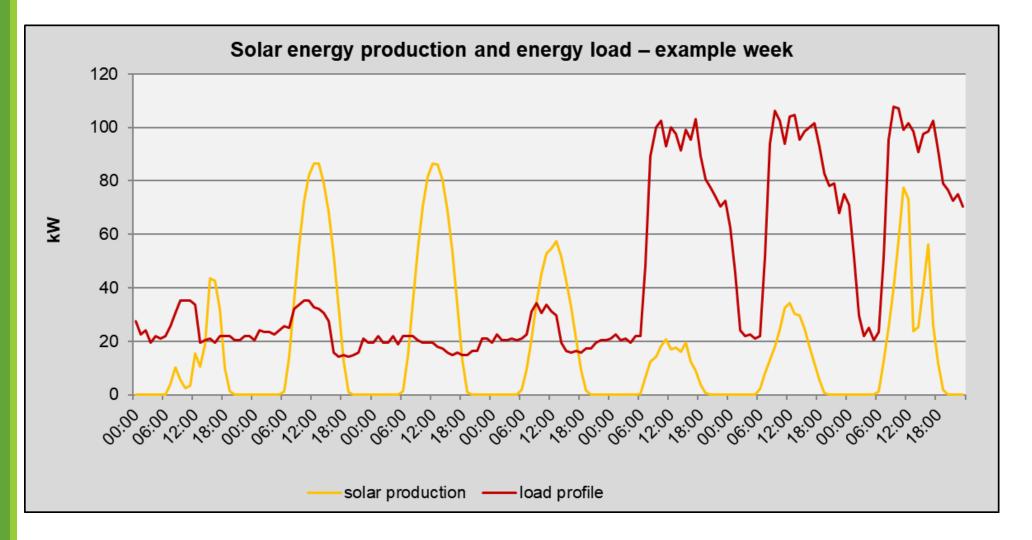
Solar energy feasibility study for 11 Vidzeme planning region buildings



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