



Our Solar Town

Curriculum

All teaching materials, tools and documents of the project



Co-funded by the
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Climate Alliance
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Introduction

Our Solar Town is a project to show, how important renewable energy is to fight the climate crisis. In the project students and teachers can gain theoretical and practical experience, as well as to build their own solar-thermal system and install it on the roof of their school or any other building.

The Erasmus+ project Our Solar Town offers a lot of learning and teaching materials, from renewable energy to the legal and organizational part of building a solar-thermal plant. You can download all the materials and find the links to the tools on the projects website www.solartown.eu.

The materials are developed for participating students between 10 and 14 years old.

What kind of learning and teaching materials can you find at Our Solar Town?

- Learning units
- Role plays
- Practical units
- E-Learning
- Planning Tool
- Process Guide

All of the materials and tool are marked with the corresponding ikons.

LEARNING UNITS:

There are nine Learning Units (LU) available, which contain:



A **Learning Plan** with background information about the topic of the unit.



A **Teaching Plan** with information about the organization and implementation of the unit.



Instructions for **Experiments**



Required **Worksheets**





ROLE PLAYS:

There are four Role plays available at Our Solar Town. Each document gives detailed information about the scenario, needed materials and infrastructure and the implementation of the role play.



PRACTICAL UNITS:

The practical units present the construction of solar-thermal plant by students, the presentation of the finished plant and potential excursion destinations, which round off the project. You can find information about materials needed, preparation and implementation.



E-LEARNING:

The E-Learning on the Our Solar town website contains online courses on renewable energies, solar energy and climate change for students from 10 to 14 years.



PLANNING TOOL:

Where is the best spot to place a solar-thermal plant? The Planning Tool helps you to find it!



PROCESS GUIDE:

The Process Guide is an online platform that accompanies participants through the process of planning and construction of the plant, to submission for the Our Solar town award. The aim of the award is to reward participating schools for their effort.



With the help of the Process Guide it is easy to create your own “Our Solartown newspaper” .





Overview of all learning and teaching materials and tools

Learning units:

- LU 1_1_Energy sources
- LU 1_2_Solar energy
- LU 1_3_Climate change
- LU 2_Solar energy technologies
- LU 3_1_Site selection
- LU 3_2_Solar-thermal systems_planning installation
- LU 3_3_Solar-thermal system costs
- LU 4_1_Public relations

Role plays:

- RP 1_3_Greenhouse effect
- RP 3_1_Site selection
- RP 3_2_Installation_pros and cons
- RP 3_3_Financing a solar plant

Practical units:

- LU 4_2_Solar newspaper
- LU 5_1_Practical realization
- LU 5_2_Presentation
- LU 6_Excursions

**You can download all documents under:
<https://solartown.eu/symfony/public/teaching>**

E-Learning:

- E-Learning_1_1 Energy sources
- E-Learning_1_2 Solar energy
- E-Learning_1_3 Climate change

**You can find all e-learning lessons under:
<https://solartown.eu/elearning/>**





Planning Tool:

- Online tool to find the best spot for your solar-thermal system

**You can find the planning tool under:
<https://solartown.eu/symfony/public/map/>**

Process Guide:

- If you want to take part in the Solartown award use the Process Guide

**You can find the process manual under:
<https://solartown.eu/processmanual/>**

What other documents are available?

Beyond the learning and teaching materials and tools, there are other materials available on the website of Our Solartown. These documents can help you to implement your own Solartown project:

- Implementation Guide
- Guide for Technicians

IMPLEMENTATION GUIDE:

In the Implementation Guide you will find all necessary information on the implementation of Our Solartown projects.

GUIDE FOR TECHNICIANS:

If you want to build a solar-thermal plant with pupils, you might need the help of a technician. In this guide the technicians can find helpful information about the building process, tools, materials and working with children.

**Do you need more information?
Please contact one of the project partners!**





Contacts:



WEBSITE: <https://solartown.eu/>

NATIONAL CONTACTS:

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Website: <http://www.akaryon.com/>



Climate Alliance Austria

Website: <http://www.klimabuendnis.at/>



Solar Heat Europe/ESTIF

Website: <http://www.solarheateurope.eu/>



KPE Pertouliou Trikkeon, Greece

Website: <https://blogs.sch.gr/kpepertoul/>



VseUK Institute, Slovenia

Website: <http://www.vseuk.si>

