



# Our Solar Town

## Curriculum

All teaching materials, tools and documents of the project



Co-funded by the  
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Climate Alliance  
Austria



## 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 project's website [www.solartown.eu](http://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
- Tutorial Videos

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

### LEARNING UNITS:

There are eight 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, the creation of a Solartown newspaper 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”.



### **TUTORIAL VIDEOS:**

The tutorial videos show the individual work steps to support interested teachers in the implementation and to lower the entry barrier. In this way, even users with little or no previous knowledge will be able to successfully carry out and complete the practical unit on building a solar thermal system. All videos are available on the Our Solartown YouTube Channel: <https://www.youtube.com/channel/UCagi9EYkafhEO0zNMTjaw0A>





## 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 document your project and 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:

### **akaryon GmbH, Austria**

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>

