



Our Solar Town

Learning Unit 5.2 Presentation of the plant



Learning units
LU 1_1 to 6



Process guide

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Learning Unit 5.2 – Learning plan

Presentation of the plant (solar collector)

The construction of solar collectors by students or the realisation of a solar town project respectively is a fantastic achievement. Therefore, it makes sense to acknowledge this achievement with an official presentation of the plant. It is a great experience for the students to plan such an event and to speak and perform in front of an audience.

The closing event can of course be organised individually and can vary in size, expenditure of time and costs. The closing event can be organized in many ways depending on size, the expenditure of time and costs

PREPERATION

PREPERATION FOR THE STUDENTS

In the early stage of the planning, the class should be prepared well for the closing event. As part of the solar town project, the students have already got in touch with the topics of climate change, renewable energies, and/or solar energy (**Learning unit LU 1_1 to 3_3** of „Our Solartown“, Download: materials.solartown.eu; or other materials about the topics mentioned above). It is important, that the students know about the different types of use of solar energy and its importance for climate protection.

After the construction of the solar collector(s) and/or the theoretical learning units about this topic (**LU 5_1 Practical realization**) they also know the structure of solar collectors. Their knowledge and experiences should be presented at the event.

WHERE SHOULD THE PRESENTATION TAKE PLACE?

When planning the event, not only should the estimated number of guests be considered, but also which event room is available. A bigger room in the school building may be enough for a smaller event. Bigger events could take place in the school hall or the gym. Maybe the municipality has a hall, where the event could take place. Do not forget to consider, which equipment you need.



WHO SHOULD BE INVITED?

The number of guests of course depends on the venue. For the students it is always very exciting if, besides their parents, teachers, and fellow students, also someone of the “official side” is invited. Perhaps the mayor has time, or a representative of the municipality, the region or the federal state has the possibility to participate as a guest of honour. Also, the (local) media should be invited.





WHICH EQUIPMENT DO YOU NEED?

When choosing the location, you should also consider the equipment you need. If the project will be presented with the help of a video, a PowerPoint presentation or photos, a beamer and a projection surface or screen must be available.

If the presentation is to be musically framed, a sound system, microphones, amplifiers, etc. will probably be necessary.

Is there a buffet? In that case there must be sufficient space and dishes available.

Would the pupils perhaps like to exhibit posters or drawings? Sometimes the walls are suitable for this, but sometimes it may be better to set up mobile exhibition walls.

Last but not least, there must be enough space and seats for all visitors.

PLANNING THE EVENT

In general, we recommend planning the event for about 1 hour. Most of the time it gets a little longer anyway. The maximal length should in any case not be more than 1.5 hours.

Possible program points	Who?
Greeting	The students / directorate / teachers
Presentation of the project based on interviews	The students
Presentation of the project with a film, a PowerPoint presentation, or photos	The students
Musical framework program	The students themselves or other the students from the school
Handover of the certificate	By a guest of honour (mayor etc.)
Press photo with the plant	Students, teachers, guests of honour
Closing buffet	All
Slide show with selected photos from the project	Automatically running, at the beginning, at the end and / or in between





PRESENTATION BASED ON INTERVIEWS

Experience has shown that interviews are a good and interesting way of organising a programme. Pupils have to come up with exciting questions, but don't have to speak too much.

Interview partners	Possible questions
Headmaster	<ul style="list-style-type: none">• Why did your school take part in this project?• What do you think about this project?
Mayor	<ul style="list-style-type: none">• What has the municipality done for climate protection so far?• What will happen with the plant we built?
Financier	<ul style="list-style-type: none">• Why do you support such projects?
Co-organiser	<ul style="list-style-type: none">• What is your organization and why do you do this kind of projects?
Students	<ul style="list-style-type: none">• What did you like most about this project?
Teachers	<ul style="list-style-type: none">• Did you also learn something new from this project?
Guest of honour	<ul style="list-style-type: none">• What are you personally doing for climate protection?

WHAT ELSE IS THERE TO CONSIDER?

Because in the heat of battle people often forget to take nice photos or videos, it is good to have a person responsible for the photos or films.

For external guests it is always helpful if the directions to the event room are well signposted. Especially if the presentation takes place at the school itself. It is also possible that some of the students act as a reception team, escorting guests and members of the media to the place of the event and assigning seats.





Learning unit 5.2 - Teaching plan

Presentation of the plant (solar collector)

The presentation of the project should be well planned. Pupils prepare and perform the event under supervision and with the support of a teacher.

TIME:

Preparation of the event: 45 - 90 min

Final rehearsal: 30 - 45 min

Event duration: max. 60 - 90 min

CLASS ORGANISATION: Group work (working groups of 2 - 4 students), each group has its own task

METHODOLOGY:

Theoretical planning of an event, practical implementation of an event

Depending on the programme of the event, possibly also: computer work, music, dance, art, speech exercises

LESSON GOALS:

Topic of the project: Planning and implementation of a project presentation/event

Students:

- learn, how to plan and conduct an event
- learn to work in teams
- learn to speak and present in front of an audience

MATERIALS:

Flipchart or blackboard, paper or moderation cards, pens and if necessary, laptop, beamer, sound system and microphone

PREPARATION (45 - 90 minutes):

The pupils plan the schedule and the programme of the event, consider what is needed for the implementation and work in small groups.

Before the pupils are divided into groups, it must be discussed together what is needed and which tasks are to be assigned.

The teacher is the one who approves and then the pupils proceed to the next task.





LERNING UNIT 5.2: TEACHING PLAN

Depending on the programme of the event, the following tasks should/can be performed by the students:

Task	Description
Speaking	Welcoming the guests, opening of the event
Interviewing	Ask interview questions
Presenting	Presentation of a PowerPoint presentation, photos, and/or a short film
Making music	Design of the musical supporting programme
Acting	Performance of a sketch, dance, etc.
Preparation of texts and questions	Preparing the text for the greeting, the questions for the interview partners, etc.
Designing	Decorating and arranging the event hall
Organising	Procurement and organization of necessary equipment, seating in the hall, signage, PC, beamer, etc.
PC work	Design of the invitation
PC work	Creating the PowerPoint presentation
Photographer	Organisation of equipment and taking photos at the event
Operating the camera	Organising equipment and filming the event
Buffet organisation	Organise dishes, glasses, drinks, and food for the buffet and set up the buffet
Organisation of the process	One person (preferably the teacher) should keep an eye on the process and make sure that the students are ready in time for their performance
Public Relations	A small press kit or a text for the media should be prepared (teacher in cooperation with the pupils)

LAST REHEARSAL (30 - 45 Minuten)





Every student should know exactly what to do when and where. It is therefore advisable to rehearse the exact procedure of the event directly with the students at the location of the event. This enables the students to become familiar with the event room respectively the stage, to test the sound technology and to practice the presentation.

Pupils should prepare the text or questions on moderation cards. The teacher supervises and helps with the last corrections before the final event starts.

THE EVENT (60 - 90 minutes):

If possible, all students in a working group should be involved in each work step.

The preparation work should be done on time, so that there is no hurry and stress. The first rows are reserved for the guests of honour. Behind or to the side the students who are presenting should be placed so that the way to the stage is not too long. The person responsible for technology should have taken up his or her post and the opening slide will be projected onto the wall or screen if you wish to support the event with a PowerPoint presentation.

After the arrival of all guests and guests of honour, the event should be started in time. A gong or a musical interlude helps to let the audience come to rest. Just before the final event starts the teacher motivates and calms the pupils.

MUSICAL INSERT (3-5 minutes)

1. Welcome (15 minutes)

The students selected for this task enter the stage to greet the audience and guide them through the programme. Either it is the same students until the end or the students take turns.

"Dear guests, special guests and students, on behalf of the class and the school we would like to welcome you to the presentation of our project and we will guide you through the program in the next hour."

First, depending on where the event takes place, the owner of the venue is asked to join the stage. This is usually the headmaster of the school.



The question to the **headmaster** could be

- *"Why did your school get on board with this project?"*



- *"What do you think of this project?"*

Afterwards, the mayor will be invited on stage.

The question to the **mayor** could be:

- *"What has the community done for climate protection so far?"*
- *"What is going to happen to the facility we built?"*

Next, **co-organisers** will be interviewed:

- *"What does your organisation do, and why do you do these kinds of projects?"*

A possible question to the **financier or sponsor**, who is usually also a guest of honour, could be:

- *"Why do you support this kind of projects financially?"*
- *"What are you personally doing for climate protection?"*

DANCE or MUSIC (3 - 5 minutes)

2. Presentation of the project based on interviews or via PowerPoint or video (20 minutes)

2 students interview their classmates:

- *"What did you learn or do during the project?"*

1-2 students talk about the **workshops and learning units on energy and climate**. For this purpose, 1 to 2 slides/photos may be shown.

1-2 students report about the **excursions** they have made. Here you can also show some pictures.

2 students explain the **construction of the plant** "step by step" using pictures.

1-2 students inform the audience about **how the solar thermal system works** and how much hot water it produces on average per year.

If a **"solar camp newspaper"** was created or a **video** was created, these contributions can also be presented or shown.

1-2 students and 1-2 teachers could give their feedback on the project and be asked the following questions, for example:

- *"What did you particularly like about this project?"*
- *"Have you learned something new on this project?"*





DANCE or MUSIC (3 - 5 minutes)

2. THANK YOU and presentation of certificates (10 minutes)

On no account you should forget to thank all project participants and sponsors. This should be done by a teacher or a guest of honour. If you decide to give a certificate to the students as a thank you and recognition for their great performance and as a remembrance for this project, then now is the right time for it.

The certificate should then be handed over by a guest of honour (mayor, sponsor etc.) as a sign of appreciation.



In order to avoid boring the spectators, you can run a slide show with a selection of photos in the background.

3. Press photo with the plant (5 minutes)

At the end, a photo is taken in front of the plant with all project participants for the press and as a reminder.

FINAL EVALUATION (approx. 30 minutes):

At the end of the project it is nice to finish everything off with a good, climate-friendly buffet. The students and project leaders have every right to be proud of themselves!





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