



13th September 2019

A Photovoltaic Solar Panel

Aims:

- Distinguishing between Solar Thermal and Solar Photovoltaic Energy

Done in the google form: <https://forms.gle/knp6bL22xnE1FEsL7>

1.- Definition of Solar Thermal and Solar Photovoltaic Energy

Constructing Definitions (<https://youtu.be/yFwGpiCs3ss>)

Watch the video and complete the gaps into sentences so as to its make sense

..... is the most abundant,.....source in the world. refer to technologies that to another form of energy for use.

There are **two categories of technologies** that harness solar energy, and

Solar Photovoltaic (or PV) is a technology thatby using semiconductors. In contrast, **Solar Thermal** is a technology thatproduction.



13th September 2019

2.- Constructing the meaning of Photovoltaic Solar Energy

[Constructing the meaning of Photovoltaic Solar Energy](https://youtu.be/gI5tY5Noacc) (<https://youtu.be/gI5tY5Noacc>)

1.1. Taking advantage. Read carefully this glossary of words related to Solar Energy and check which words do you know the meaning and share the information within your team. (Just in case that you do not know a term look the information in a dictionary)

Scientific term	Knowledge of the scientific term
Renewable energy and renewable resource	Yes No
Solar Energy Systems	Yes No
Solar thermal	Yes No
Solar Photovoltaic (PV)	Yes No
Technology	Yes No
Direct current electricity	Yes No
Semiconductors	Yes No
Prosumers	Yes No

1.2 Watch the video again:

To begin with, read the following questions (take advantage about checking question below you have to answer). Afterwards, share the information with your team and find extra information, which may be do not have to complete the questions below.

Secondly, watch the video again and fill out answers and fill out the form.

[Photovoltaic Solar Energy](https://youtu.be/gI5tY5Noacc) (<https://youtu.be/gI5tY5Noacc>)





13th September 2019

- A. What Solar Photovoltaic technology is?
- B. How does it work?
- C. What are solar Photovoltaic (PV) cell mainly made of?
- D. When do you think direct current might be produced?
- E. Why do we consider solar systems are crucial renewable resource?
- F. What kind of concerns traditionally do we have about solar PV?
- G. What does a prosumer mean?



Co-funded by the
Erasmus+ Programme
of the European Union



13th September 2019

3.- Constructing the meaning of Thermal Solar Energy

[Constructing the meaning of Thermal Solar Energy \(https://youtu.be/FgjfJGfusdE \)](https://youtu.be/FgjfJGfusdE)

To begin with, read the following questions (take advantage about checking question below you have to answer). Afterwards, share the information with your team and find extra information, which may be do not have to complete the questions below.

Secondly, watch the video again and fill out answers and fill out the form.

- A. What do active thermal systems circulate to move parts like fans or pumps?
- B. How do we grouped thermal technology by?
- C. Apart from thermal uses, may heat-carrying fluids be used in other field? If yes, What does High temperature solar thermal work?
- D. What does CPS stand for?
- E. Reason about the advantages and disadvantages of having medium and high temperature thermal solar systems

References:

Student Energy. Retrieved from <https://www.studentenergy.org>

