



Video Teaching content for green industry



Publication date: July 2024



CC BY-SA

This license allows the sharing and adaptation of this publication for non-commercial purposes, under the strict condition that the VideoTeach project is credited as author appropriately and the material used is published under identical terms.

[Read the licence deed.](#)

© 2024

Contents

Introduction	4
The VideoTeach Project.....	4
Summary of the deliverable	4
Video Teaching content for green industry.....	5
Introduction to green energy.....	5
PV General	6
PV-On Grid.....	6
PV-Off Grid	7
Thermal Energy.....	8

Introduction

The VideoTeach Project

The VideoTeach project aims to develop educators' digital competences and promote video education as the main tool for digital teaching.

In addition, the project sets out to:

- Promote video education in rural areas, by providing rural teachers with competences and tools covering digital and video necessities.
- Promote video education in the green industry, supporting the development of methodologies, tools, and video contents in the specific industries of renewable energy.
- Support rural teachers in the development of their professional career by facilitating the recognition of existing digital learning outcomes, providing structured training and more.

Summary of the deliverable

This deliverable is a document which list the Green Technologies videos developed in the framework of PR4 "Video Teaching content for green industry". All videos are available on the VideoTeach platform which is accessible through the following link: <https://videodatabase.eu/> and on the VideoTeach project You Tube channel through the following link: <https://www.youtube.com/@VIDEOTEACHProject>

Video Teaching content for green industry

Introduction to green energy

Introduction of green technologies

<https://youtu.be/vmBJK1YBBcl?si=7rSTcwcgHgD4Kzuy>

PV power plants in Bulgaria - Great opportunities

<https://youtu.be/5KGyTJ6Fd-w?si=co4uziGsrb5dRinn>

The environmental impact of Green Technologies

<https://youtu.be/eH5a6f8PLnM?si=Zdbf4YSzUS4gXzVH>

Introducing the Net Zero Energy Buildings

<https://youtu.be/xJALaXxXNtM?si=zS0jSPgVtjFX2Qk>

Solar energy and climate change

<https://youtu.be/IQcbBVJVkq4?si=c2Zk25gwAX-ljFRH>

How is wind power applied in the South Ostrobothnia (municipality of Isojoki) PART 1

<https://youtu.be/WVjzAZ7fOrk?si=aPrxnRpwJGoVi6Bh>

How is wind power applied in the South Ostrobothnia (municipality of Isojoki) PART 2

<https://youtu.be/hCAwE8YKMtI?si=hmLv2KDbNnbspoZG>

Green Deal

<https://youtu.be/LG-2rrAw-jw?si=Ek-OzOR64SOFH6ox>

Sustainable communities

https://youtu.be/hjDFsmmQDmo?si=MN_InOc4HGGgl6Ue

Energy Communities - Challenges and Opportunities

https://youtu.be/fK5XirRU_bw?si=NRo_bh6vtj-MxgJ-

Green Technologies – Further Educational Opportunities

https://youtu.be/fK5XirRU_bw?si=Nk4PbA8jDCQSjd2

PV General

Photovoltaic panel floor installation

<https://youtu.be/3N2H6osOa1M?si=cNuaxFFPr8ooDtzf>

Roof Installation

https://youtu.be/PYfXsJ9CV4I?si=zJY3TBgR_WirAfnl

Hybrid system (PV- wind) components and connection

https://youtu.be/wWzKkSb3sJg?si=jRx7iqAg_CFnZ5iR

Basic Components of Solar Energy Systems

<https://youtu.be/PRYoiYzYwYg?si=syxGNOsCUR0Be0s>

Introduction to Solar Energy, Solar PV Systems and Energy production from Solar PV

<https://youtu.be/ekDL7eYUA08?si=VDWQeOJF78W90iSW>

Solar PV system maintenance

<https://youtu.be/XrEJFNeLg0?si=kKfO.Jti2rq0eMgJV>

PV-On Grid

PV power plants in Bulgaria - Part 1: Site selection, design, engineering and construction

<https://youtu.be/5-IR03FEkdY?si=aSwm0zyYtSTOTfZH>

PV power plants in Bulgaria - Part 2: Testing, operations and maintenance

https://youtu.be/XN9p0UrxBSA?si=vwvbdOxxAG_zqwUm

Solar Energy in Extremadura

https://youtu.be/w_GuEWuCSRU?si=BleCzyMxH7988Bm4

Solar Energy in Europe: agro-photovoltaic systems

<https://youtu.be/dYbXMak28no?si=GIFPUdZ0yxXHjPcC>

On grid photovoltaic system components

<https://youtu.be/52ujsrmMGhs?si=06lfpEDSno0Q0-6h>

On grid photovoltaic system connection

<https://youtu.be/jYVo-1d3MkQ?si=o4bAXew10MjxVTo8>

Hybrid photovoltaic (PV) systems

<https://youtu.be/l7vLL-I7zNk?si=J-RFGRREbYzf1tin>

Configuration of energy resources in a solar house- IT Part 1: Introduction to solar houses

<https://youtu.be/GcRGHOKt9BA?si=t-mRDr8u-hbEEOSa>

Configuration of energy resources in a solar house- IT Part 2: Components of solar system

<https://youtu.be/W5n-Gx4ao3Y?si=dOa21SghgTqZOTGt>

Configuration of energy resources in a solar house- IT Part 3: Configuration of energy resources in solar house

<https://youtu.be/0w-qr7HHIno?si=e7SfDgCYJY9x45Vv>

PV-Off Grid

Off-grid Systems connection

<https://youtu.be/BE7rawrQqXY?si=an1qOmd7EcFDHrh9>

Off-Grid photovoltaic system components

<https://youtu.be/Q4DN6L9u2YE?si=5xUvD0Vd2gHZlwHj>

Off-grid solar energy system for your home and business: Smart utilization of solar energy with electrical energy storage (battery) Part 1: Introduction and understanding of solar system

<https://youtu.be/H-WG6VgsEG0?si=It8YLkIXSqh2YKrr>

Off-grid solar energy system for your home and business: Smart utilization of solar energy with electrical energy storage (battery) Part 2: Solar system components, assembly, monitoring, and maintenance

<https://youtu.be/RjDVS2HKdqI?si=13MJ3iB9fsQ8ywWV>

Off-grid solar energy system for your home and business: Smart utilization of solar energy with electrical energy storage (battery) Part 3: Eco benefits of an off-grid solar system

<https://youtu.be/KFhA2QvsJno?si=hAypas21ilp92C15>

Thermal Energy

Aerothermal systems

<https://youtu.be/iZWFyptHif4?si=GNxR5uppUmtSb3yF>

Thermal solar systems (production of domestic hot water - DHW)

https://youtu.be/g_a3NAkP15I?si=3yZWTyQByqkHHNwg