

Introductory video to Renewable Energy for Local Development**Energy online course (Module 1, part 1)****Videoscript**

Hello everyone,

This is Hector Beltran from Universitat Jaume I de Castelló, Spain. I am professor at the Electrical Engineering Department of this university and I will guide you throughout the first introductory chapters of this module.

The module we are about to initiate is motivated by the new possibilities, in terms of energy supply, that humanity can find nowadays. We are currently living an actual revolution in the way society interacts with the energy around the world. The recent apparition of different renewable energy technologies, that have definitely become mature enough so as to compete with conventional technologies, is transforming the electric power system paradigm, as we know it. All the experts recognize that, the traditional centralized paradigm in which all the consumption has been historically supplied by a bunch of big power plants is evolving towards a decentralized or distributed paradigm. In fact, more and more small renewable energy suppliers get connected to the network every month, many times being very close to consumers, and accordingly energy flows are not anymore unidirectional. Energy production and its use is therefore becoming more “democratic” and big companies do not completely control the sector anymore. This new situation involves countless opportunities for small investors that want to promote renewable installations either connected or isolated from the network.

We will try to provide the students of the module with the proper information that will enable them to undertake this kind of projects. And note that we will mainly focus on the potential use and applicability of renewable technologies to the rural areas where, so often, the traditional energy infrastructure has been disregarded.

As I said before, I will introduce you the first three chapters of this course that will be devoted to: present the renewable energy resources nature and availability, describe the current panorama of the different technologies, perform a basic technological description of the main renewable technologies for small installations and, finally, analyse the different regulatory frameworks that can be found on the different European regions and States.

Now, I leave you with my colleague Vicent who will complete the information regarding the first module of the course.

Best regards and see you soon!!!!