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Case study :
Summary description and questions over TILOS PROJECT: the advantage
of the renewable energy sources and the use of battery storage in the
energy production sector

TILOS PROJECT

TARGET

- TILOS PROJECT is a project with the cooperation of 7 european countries (Germany, United Kingdom, France, Sweden, Italy, Spain and Greece) aiming to highlight the advantage of the renewable energy sources and the use of battery storage in the energy production sector.



- Briefly, the benefits of such an energy grid are the energy conservation, as only the needed energy is being produced . Moreover, the energy autonomy of the island is being ensured, as it's not connected to the rest of the grid.



- In addition, the energy provided is more reliable. Lastly, we ought to mention the obvious advantages of the use of renewable sources.



DESCRIPTION

- Shortly, TILOS PROJECT aims to the 100% energy autonomy of the island of Tilos. In order to achieve its goal, there has been installed a hybrid energy park(solar and wind power)using exclusively renewable sources. What is more, there has been used a battery park for the reliability of the energy provision.



- The grid is also equipped with an automatic control center, which besides the energy consumption, does also checks the use of heated water .



QUESTIONS

- How can Tilos Project be applied to a greater scale, such as large cities;
- What is the cost of such a project so it can be used to make autonomous even more areas;
- Is it worth it the construction of such projects where the consumption is already high;
- Afterwards the construction what are the maintenance obligations or, for example, do the batteries gradually lose their efficiency over time.
- Which is the space needed for such parks, especially when the energy needs are high, like in big urban areas.



SOURCES

- <https://tiloshorizon.eu/>



PHOTOGRAPHIC MATERIAL

- https://www.google.com/url?sa=i&url=http%3A%2F%2Feunice-group.com%2Fgr%2Fprojects%2Ftilos-project%2F&psig=AOvVaw29mV73huSo4UoTJiZnta_g&ust=1581102018227000&source=images&cd=vfe&ved=oCAIQjRxqFwoTcliYhZjOvecCFQAAAAAdAAAAABAD
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