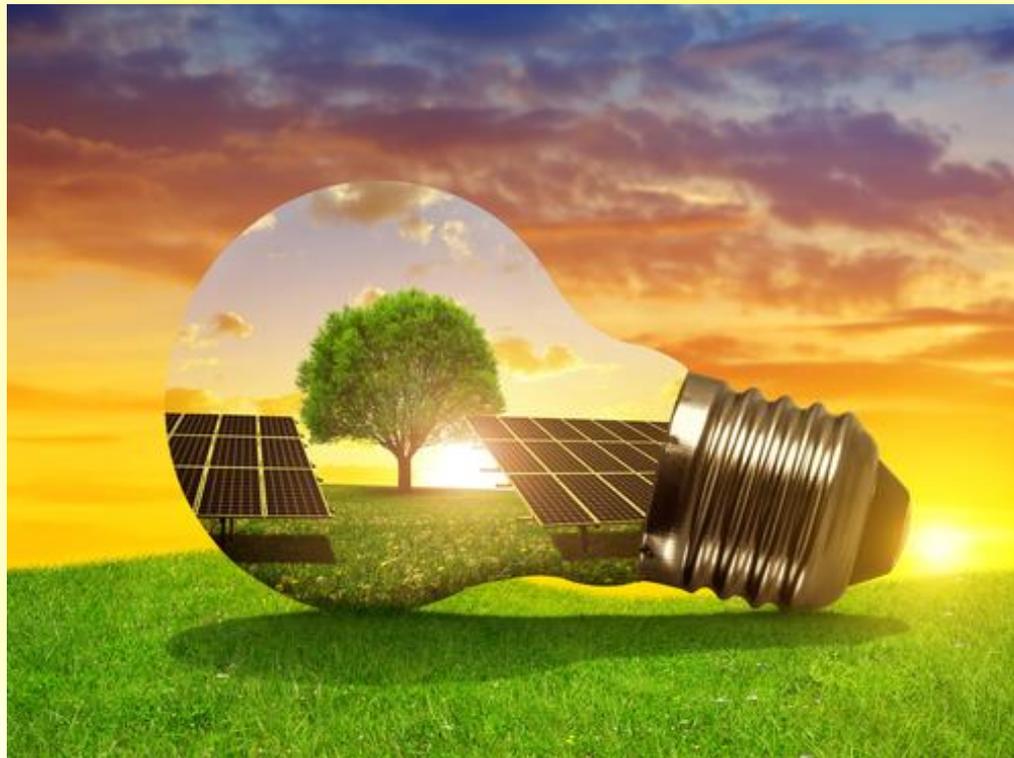




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SOLAR ENERGY



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WHAT ARE THE HISTORICAL STEPS OF PHOTOVOLTAIC SYSTEMS?





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THE HISTORICAL STEPS ARE:



Alessandro Volta was responsible for the invention of the first electricity generator, **the battery**.

In 1839 the French physicist Alexandre Edmond Becquerel found that on some liquids exposures to the sun causes slight electrical effects.

Only 40 years later, William G. Adams and Richard Evans discovered a sudden change in the conductivity of telegraph cables when they are exposed to the sun.





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WHAT WERE THE FIRST DISCOVERIES?



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The first photovoltaic system in the world was built in 1879.

The first photovoltaic cell capable of producing measurable energy was patented in 1955, thanks to the efforts of scientists Gerald Pearson, Daryl Chapin and Calvin Fuller.

In 1958, the Vanguard I, the first orbiting spacecraft powered by photovoltaic cells, was launched.



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photovoltaic is an incredible growing sector. From the 1990s to the present, its diffusion has increased by 400%, thanks to the various incentive policies and above all to the excellent performance that these instruments can guarantee today. Italy has proudly imposed itself in this sector.



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WHAT ARE THE ADVANTAGES OF SOLAR ENERGY?



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The advantages of solar energy are:

- It is always available and does not emit CO₂
- It is cost-free
- It is self-produced

The solar energy allows the attainment of energy independence and is considered as a significant investment

It requires very low or no maintenance costs





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WIND ENERGY

The first wind turbine dates back to 1887 and was built by James Blyth of Scotland.

The history of wind energy was then interwoven with the studies of aeronautics and arrived to us with the characteristic three blades, now become habitual in most wind turbines installed today in all continents. Thanks to intuition, a young man made the first one in Denmark in 1956.



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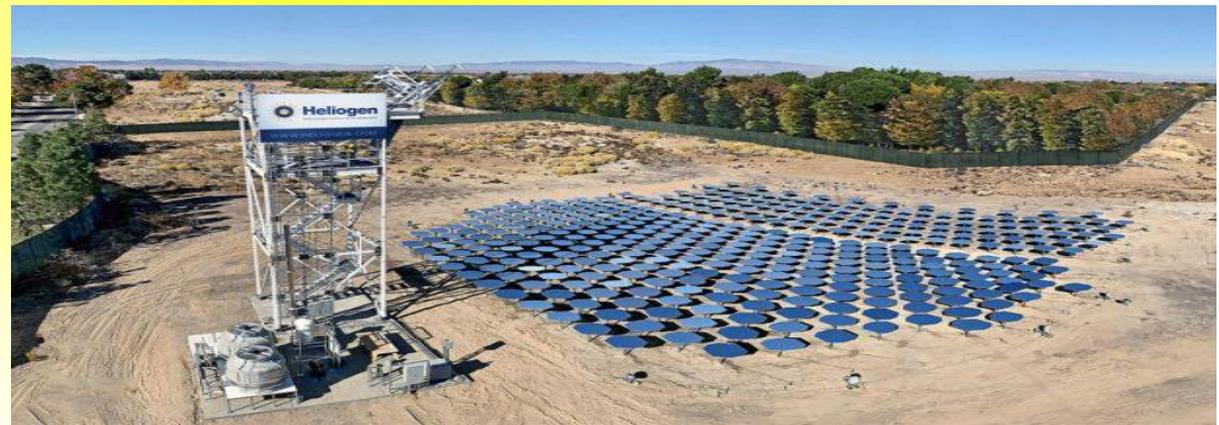
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A secret startup “Heliogen” supported by Bill Gates has realized a turnover that could save the planet.

The breakthrough means that, for the first time, concentrated solar energy can be used to obtain the extreme heat needed to produce **cement, steel, glass and other industrial processes.**

In other words, sunlight, a clean energy that does not emit greenhouse gases or CO₂, can replace fossil fuels in a sector of the economy that is extremely dependent on fossil fuels



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**THANKS FOR YOUR
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