



SCAN • THE • SUN

# SCAN THE SUN - ABOUT US

## Photovoltaics yesterday and today

### What does Albert Einstein have in common with PV panels?

The history of photovoltaics did not begin in the 21st century, although indeed, it is only now experiencing a renaissance! It is becoming more and more popular every year, although its development would not have been possible if not for the research and theses of scientists.

And it started in 1839, when Alexandre Edmond Becquerel experimented with metal electrodes and electrolyte. End of the day, he noticed that when some of them were exposed to sunlight, they generated small amounts of electricity. Today we refer to this as the photovoltaic phenomenon.

Rome was not built in a day! Almost 40 years later, British scientists William Adams and Richard Evans Day proved that certain materials can produce light energy.

And then the famous Einstein walks in, dressed in a suit and disheveled hairstyle (clearly he was experimenting with electricity!), and in fact one of his theories, for which he was awarded the Nobel Prize in 1921. The scientist described the photoelectric effect and proved that light consists of a stream of photons, each containing a quantum of energy.

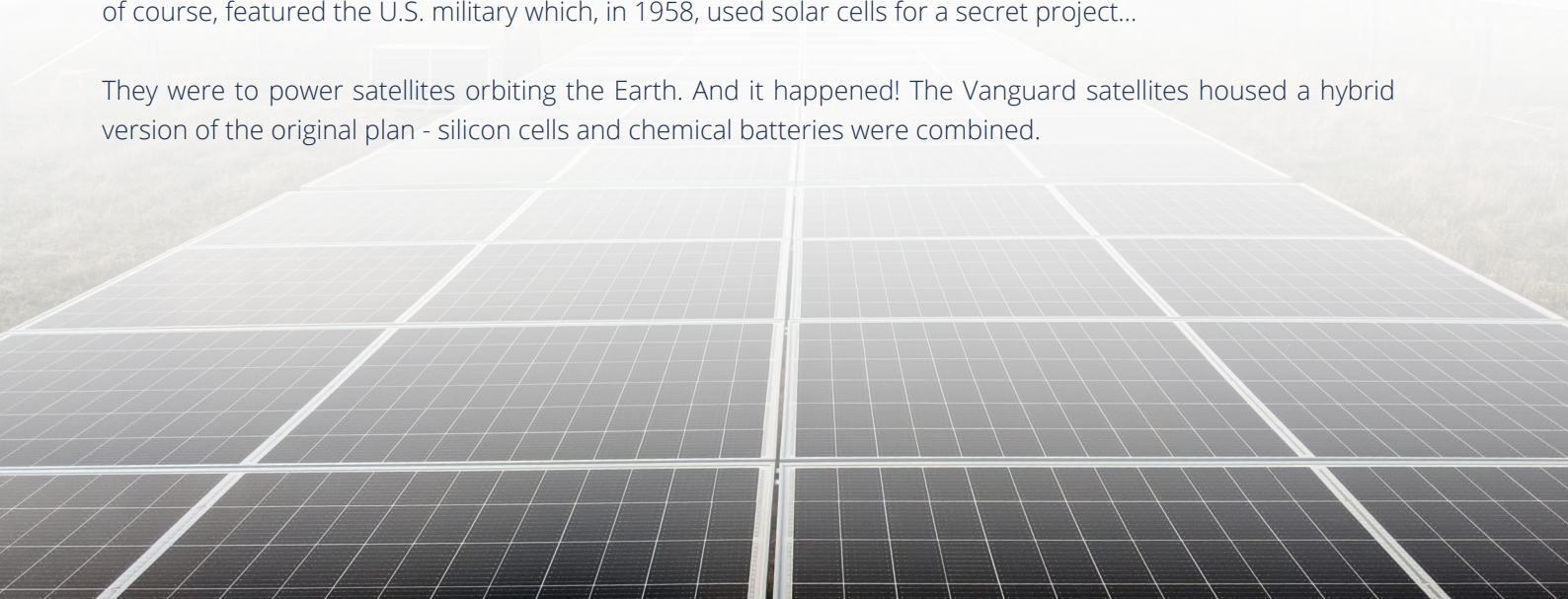
However, it took some time for the first modules, although a Pole, Jan Czochralski, developed a method for producing monocrystalline silicon. This was more than 100 years ago, and yet it is still one of the most widely used in the world!



*The beginning of a new era, eventually leading to the implementation of the use of the almost unlimited energy of the sun for civilization applications*

This is how The New York Times described the discovery of three scientists - Gerald Paeson, Daryl Chapin and Calvin Fuller. We are talking about the first PV panel, which was created in 1954. The history of photovoltaics, of course, featured the U.S. military which, in 1958, used solar cells for a secret project...

They were to power satellites orbiting the Earth. And it happened! The Vanguard satellites housed a hybrid version of the original plan - silicon cells and chemical batteries were combined.





Over the decades, PV panels have become increasingly available, and mass production began in 2000. The technology continues to improve, and everyone has access to it! Aided by common knowledge, experts and external funding, we can install the panels ourselves in our garden or on the roof of our house!

Ernest Grodner, Ph.D., and Jakub Leja decided to add their contribution to the development of this industry! In 2014, the ScanTheSun project was founded and since then they have been working to develop this technology.

## Who builds ScanTheSun?



**Ernest Grodner, Ph.D.** is the winner of the "green Nobel" - Energy Globe Awards - which is given for environmental activities. He also holds several other valuable awards such as the Prime Minister's Award and the Zdzisław Szymański Prize.

On a daily basis, he works on issues in nuclear physics, quantum systems, solar energy and IT. So the range of his interests is quite large! At ScanTheSun he is responsible for the technological aspect. He gained his professional experience in Poland (Warsaw University, National Center for Nuclear Research) and Italy (Intituto Nazionale di Fisica Nucleare).

His scientific portfolio boasts dozens of publications from the so-called Philadelphia List (with Impact Factor), publications in foreign journals oscillating around the subject of photovoltaics. Work on scientific research projects (including OSIRIS II, AGATA, EAGLE-EYE) allowed him to gain experience and gave inspiration to create an application for optimizing PV panels - ScanTheSun.



**Jakub Leja, Executive MBA** has recognized ScanTheSun's potential and is building brand recognition for the firm. He is helped by more than 10 years of experience in the US and 15 years in CEE. During his professional life, he held the position of Sales and Marketing Director and Greenfield Executive, was the head of an international consulting firm (Poland), a stockbroker (USA) or an Interim Manager for a VC fund.

His position in the firm hides under several letters COO/CSO/CMO :) In shorter words, he is the Chief Development Officer, and his activities include commercial expansion, domestic and international partnerships.

Jakub Leja introduced new products and companies to the market providing them with a sales increase of up to 100%! He has dealt with B2B contracts worth €100 million, B2C contracts worth €8 million. One thing is certain - Jakub Leja is not afraid of challenges, and his actions are also followed by business results!

**Together with their team, they form a startup changing the world and influencing the development of the energy sector.**

Together with the team, they are creating a startup changing the world and influencing the development of the energy sector. The application is a solution for improving "green energy". It is a beautiful combination of science and business, which is successfully operating in the world (more than 20,000 downloads on Google Play!). It has already been awarded several times. It started with the R&D Impact 2022 Award, then winning the Meet Up Day (where only 9 startups out of 1000 were selected for the finals, and ScantheSun was the winner), and the icing on the cake is winning the UN Habitat World Urban Forum Energy Innovation Challenge!

The R&D Impact 2022 Gala is a meeting place for technology leaders, investors, journalists and personalities in the business world. During the event, the R&D Impact 2022 Awards were given, one of which went to ScanTheSun. The statuettes were awarded to a group of 34 Laureates out of 300 nominations!

Startups, companies and cooperatives with innovative projects in the energy sector were invited to the WUF Energy Innovation Challenge. Six finalists were selected to present their ideas before an international jury. ScanTheSun surprised everyone with its innovation!

"The winners of the Katowice WUF Energy Innovation Challenge are an example of how we should approach the transformation towards green and sustainable cities that care about benefits for all - Maimunah Mohd Sharif, executive director of UN-Habitat, said at the WUF Energy Innovation Challenge."



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PV solutions are an opportunity to generate free energy, from an inexhaustible source - the sun. It's a step toward the green transformation we're so fighting for. Why? Because of the ongoing climate change that has already taken its toll on the Earth.

"If you wanna make the world a better place, take a look at yourself and make a change" – sang Michael Jackson. If we want to change the world, let's start with ourselves. Let's act together now, for our planet and future generations!

**We are not resting on our laurels, we continue to improve our technology, our Application.**

**"Scan the Sun" with us!**

