



Social Contribution Report
SENER Poland 2020

Introduction

SENER was founded with a clear emphasis on serving and making the greatest possible contribution to society through engineering and technology. The year 2020 brought challenges and changes in various sectors of the economy that nobody anticipated: when the safety of workers was at stake and the fight against the pandemic became the primary objective.

SENER's group excellence-driven culture pushes it towards a constant evolution in which innovation and creation of highly complex products is at the heart of what we do. One of the important projects for the space sector in Poland was the European Space Agency's Polish Industry Incentive Scheme aimed at raising the competences of domestic companies in the space sector. The Clamp Band technology developed by SENER Poland within the scope of this program can be successfully implemented in many space missions around the world.

SENER Poland is constantly expanding its portfolio, but also contributing to the growth of the Polish space sector. In 2020 alone, we worked with 80 subcontractors and component suppliers.

We continue to transform and adapt SENER Poland to better serve our clients and the community every day by developing engineering solutions that are always advanced, accurate and efficient. And we also respond to the needs of our stakeholders and professionals. Leveraging the talents of our people is essential if we aim at growing and being reliable and profitable.



Ibon Arregui
General Director of SENER Poland

GOALS OF THE POLISH SPACE STRATEGY TO WHICH SENER CONTRIBUTES:

Increasing the competitiveness of the Polish space sector in the European market.

Creating favorable conditions for the development of the space sector in Poland.

Developing highly qualified professionals for space sector.

Stakeholders



Research and Technology Centres



Universities



Municipalities



National Government
Government Agencies
State-Owned Enterprises









Industry Bodies



Partners
Competitors

Our people, our main force

2020 in numbers	
 38 Employees at year-end	 100% of employees Internal training program
 40% Women workforce	 1 Employee studies financed by SENER Poland
 2 PhD Students	 16 projects Our people are involved in 16 projects, including 6 new



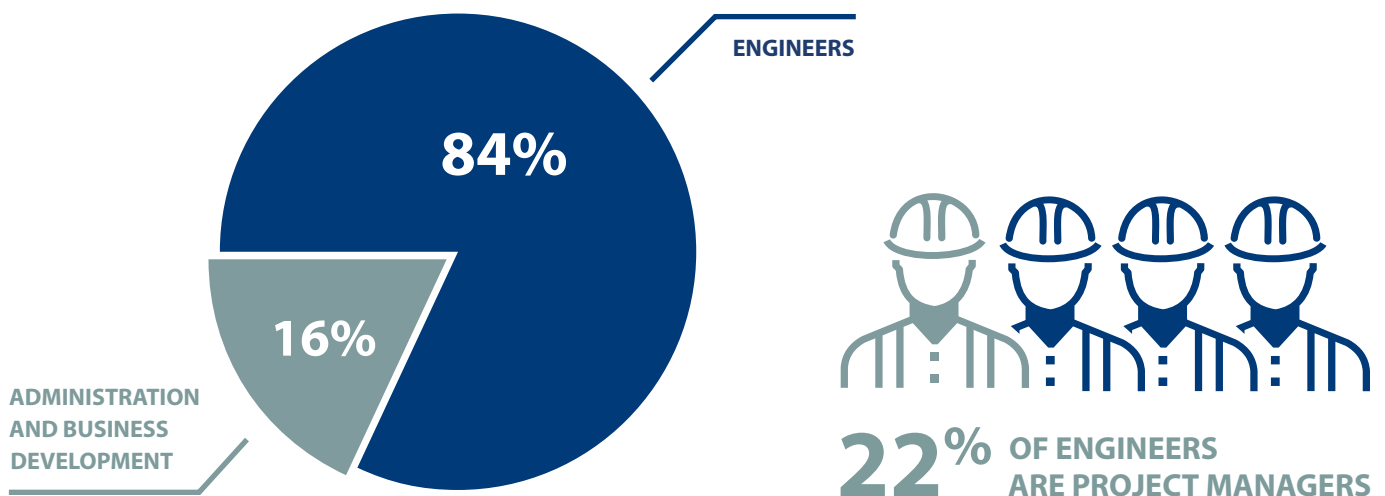
I joined SENER in 2020 as the Project Manager responsible for the MGSE product portfolio. This is a beginning of a great adventure for me, to be able to develop such advanced engineering products and at the same time be part of an international group where knowledge transfer is crucial.



Paweł Paško
Project Manager at SENER Poland



SENER's employees ▼



Cooperation with the Private Sector

SENER Poland not only takes care of the highest level of suppliers and supports their development, but also implements the guidelines indicated in the Polish Space Strategy.

With demanding projects or internal R&D we always onboard new subcontractors and stabilize our cooperation.

The previous year was a great example: our engineers were involved in the development and creation of a chain of suppliers with whom we had never worked before.

The market of our suppliers and subcontractors in Poland is constantly growing, it is dictated by the dynamics of changes, the development of competition, but also the change and development of directions in the space sector. We always try to adapt to the customer, look for the best solutions, but also take into account the supply chain.

SENER Poland is also an active member of the Polish Space Industry Association.



SENER Poland's goals

- Increasing the number of companies operating in the Polish space sector;
- Increasing the competences of the Polish space sector;
- Contributing to the growth of the domestic economy;
- Identifying the most promising technological areas for the Polish space sector (existing competences, technological niches, development potential);
- Conducting information and promotion activities.

Local suppliers ▼

50

2017

60

2018

72

2019

80

2020



SENER was the first company from the space industry to trust our company and invite us to participate in a large and multi-stage MGAMA project. Throughout the project we could count on the support of the team.

Thanks to this project we had the opportunity to test our skills in working with titanium. For the first time we also had the opportunity to work with Spanish suppliers in the field of coatings such as MoS₂ or TiC. Such a demanding project was a success, which boosted our team, young at that time. We will always remember this collaboration with satisfaction and gratitude to SENER for the trust they placed in us.

Joanna Oracz

Project Manager at Endeavour



Cooperation with the Public Sector

Polish Industry Incentive Scheme

For the first seven years of Poland's membership in the European Space Agency, Polish entities were covered by the dedicated Polish Industry Incentive Scheme aimed to raise the competences of the domestic companies in the space sector.

SENER Poland also participated in the program. The projects financed by Polish Industry Incentive Scheme had the objective to develop the Clamp Band technology and the Roadmap project.

Clamp Band

Specific project objectives

- Developing of the Clamp Band and its further commercialization;
- Adding Poland to the elite group of countries that have the Clamp Band technology in their portfolio;
- Extending SENER's portfolio of MGSE products;
- Competing effectively on the European market;
- Extending the chain of suppliers;
- Developing the test stand.

Product being developed

The Clamp Band can be compared to a belt clamp or a hose clamp. Its most important task is to provide a permanent connection between the satellite and the transport device or launcher, but at the same time it must be easy to assemble and disassemble. Besides, as a result of the project, a special test stand was created – it will remain in Poland and will be used to check the functionality of subsequent devices.

Application

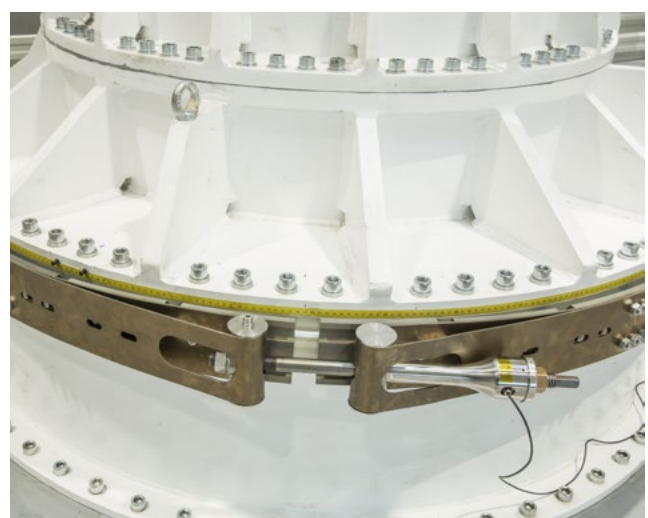
The product can be implemented in many missions around the world.



SENER Poland's goals

- Conducting information and promotion activities;
- Developing internship and apprenticeship programs;
- Supporting competitions and student projects;
- Strengthening the industry-science collaboration;
- Building human resources for the space sector;
- Developing innovative technologies through the ESA Polish Industry Incentive Scheme.

Clamp Band ▶
video



34% VALUE OF THE PROJECT WENT TO OTHER ENTITIES

89% OF THEM WERE POLISH COMPANIES



With the development of proper technology manufacturing and testing clamp bands, SENER Poland will be able to commercialize this product and join, as the only Polish company so far, the elite group of European manufacturers of this type of equipment, which will significantly increase the competitiveness in the market and reduce production costs.



Karolina Podulka
Design Engineer
at SENER Poland



Cooperation with Universities and public institutions

In Poland, SENER shares its knowledge and experience in the space sector through a series of meetings at technical universities.

SENER organized a meeting with students from the **Rzeszow University of Technology** and hosted students from the **Gdansk University of Technology**.

As part of our cooperation with the **Warsaw University of Technology**, we regularly accept students for internships. In 2020 we hired three people with student status.

SENER also participates in the “Development of Human Resources in the Space Sector” internship program, organized by the Industrial Development Agency and the Polish Space Industry Association.

We cooperate with the **Polish Space Agency (POLSA)** and the public administration. We had an honor to participate in the sector audit carried out by POLSA and ESA.

Agreement with the Kielce University of Technology

In 2020, SENER Poland signed an agreement for academic, scientific and research cooperation with the Kielce University of Technology. The agreement assumes, among other things, initiating and carrying out joint scientific and research work aimed at developing innovative solutions for the space and aviation industries.



We expect cooperation in the implementation of research projects and innovative solutions. We will work together in terms of didactic aspect, staff preparation. SENER’s employees will organize trainings or workshops for our students. Apart from that, we will also conduct additional trainings and also PhD studies for SENER’s employees on our own, thus improving their professional qualifications.

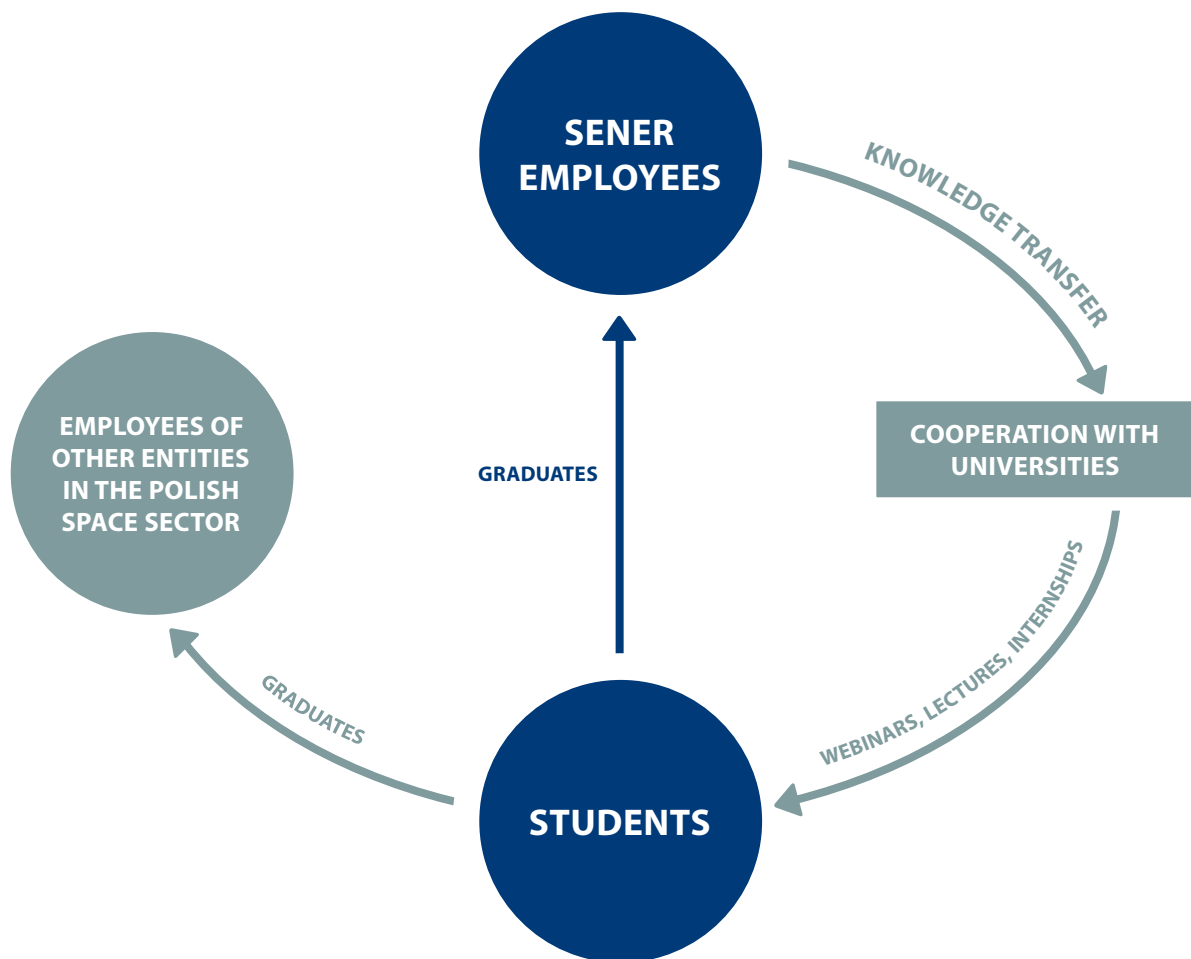
Prof. Zbigniew Koruba
Rector of the Kielce University of Technology





Ibon Arregui, General Director of SENER Poland, and prof. Zbigniew Koruba, Rector of the Kielce University of Technology, signing the agreement.

Knowledge transfer ▼



Sponsored events

The European Rover Challenge is a space robotics event combining international competitions of mobile robots with scientific and technological shows.

In this event SENER Poland was the initiator of the Best Design Award for the best robotic rover design. The winning teams will have the opportunity to participate in a webinar where SENER Group will explain the experience of working in high profile projects for NASA and ESA.

Łukasz Powęska, Project Manager of Umbilical Release Mechanism for ExoMars mission at SENER Poland, took part in the conference during the “Science on rovers” panel event.

Marcin Wygachiewicz, Project Manager at SENER Poland, was once again in the jury during the competition.



SENER Poland's goals

- Developing space sector staff;
- Knowledge transfer.



This year's ERC was very important for SENER and for me as a juror. This event is a breeding ground for the space sector, so we had the opportunity to share our knowledge with young engineers and popularize the space sector, but not only – this year, by bringing together people from all over the world, we brought some hope that the pandemic does not mean the end of this type of events, but just the development of new formulas and new opportunities.

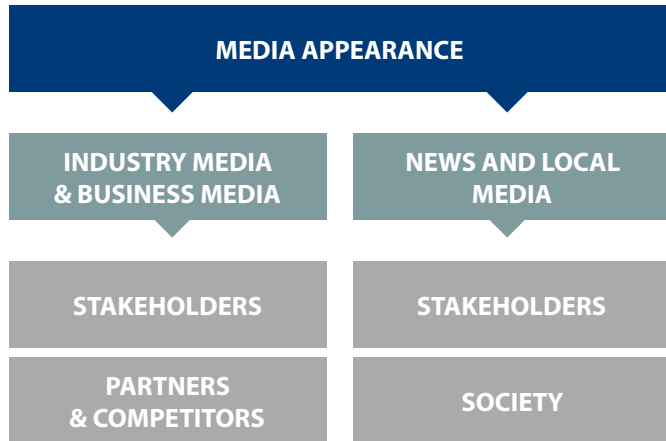


Marcin Wygachiewicz
Project Manager
at SENER Poland



Informing the public about the space sector

SENER experts regularly appear in the media, both in the opinion-forming media, talking about the business side of the space sector in Poland, and in the news media, commenting on important ESA and NASA missions and milestones in global space exploration.

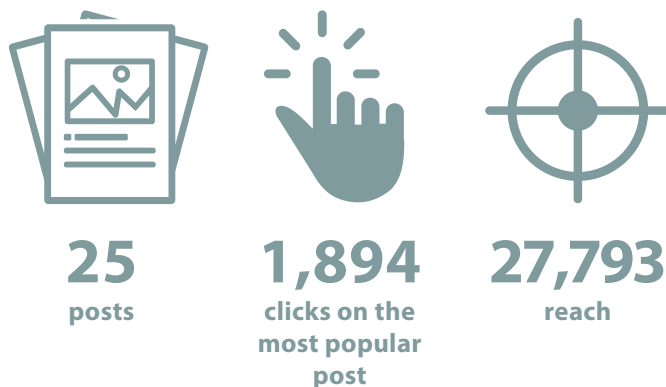


In 2020, we conducted a media audit among journalists from business, news and industry titles, which showed that:

100% of interviewed journalists are familiar with the activities of SENER Poland

90% know at least one SENER's expert

LinkedIn 2020



Media publications in Poland 2020

186

news, articles, interviews

Media reach:

over **6 million** people

“But there is no shortage of Poles on Mars either. On Rosalind Franklin, in turn, there will be the “umbilical cord” of Sener. This device used to power the rover through the lander is crucial for the success of the mission, which shows how important tenders are won by Polish companies.”

Forbes, September 2020

“The need to transfer the solutions and expertise that determine development is highlighted by Ilona Wojtkiewicz, Business Development Manager at SENER Poland. – Since its inception, SENER Poland has drawn on more than 50 years of experience of the international SENER Group. The implementation of organizational processes and the transfer of knowledge has been an invaluable asset, which has enabled us to build a stable foundation for the company and to develop it continuously – initially in the areas of civil engineering, and, since 2012, entirely in the space sector” says Ilona Wojtkiewicz.

Rzeczpospolita, August 2020

New hall as an investment

Since 2020, SENER has had a new hall in the modern City Park, which is located about 5 km from our Warsaw office.

The City Park has been built with a state-of-the-art technology with the BREEAM certification requirements.

The hall also had to be adapted to meet the numerous requirements of SENER Poland: it was necessary to install an enlarged gate to accommodate large projects and to adjust the electrical installation accordingly. The modified hall not only has an improved functionality, but also has a modern look and is comfortable to use. It also houses the test stand that was created as part of the Clamp Band project.

The new hall means convenient conditions for:

- carrying out more projects at the same time;
- developing the cooperation with local suppliers;
- faster development of innovative products.



Contribution to mitigate the COVID-19 crisis

SENER Poland actively collaborated in supporting local hospitals and other institutions in the fight against the COVID-19 pandemic. A dedicated team of engineers manufactured and supplied protective medical face shields from the SENER Poland premises to hospitals and other facilities.

The first batch was sent to the **Central Clinical Hospital of the Ministry of Interior and Administration in Warsaw** which was transformed into a hospital dedicated for COVID-infected people only. The second batch was sent to the **Senior Physician's Home in Warsaw** and to **social welfare homes in Ciechanów and Włocławek**.

Moreover, SENER Poland was always in touch with hospitals and institutions that urgently needed help, ready to provide them with more batches of protective equipment.



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As a company, we had an opportunity to support the medical services in the fight against the COVID-19 pandemic, so we implemented shift work to efficiently produce key protective equipment. The face shields are made of plastic, do not fog up and are suitable to contact with disinfectants – so they can be used repeatedly.

Łukasz Powęska
Project Manager at SENER Poland



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Face shields produced by SENER's employees

