

www.group.sener



SENER GROUP

President's letter	4
A look back at 2019	6
A company of value	8
Results 2019	10
A focus on people	16
Driven by innovation	19
Commitment and sustainability	23

3

SENER ENGINEERING 30

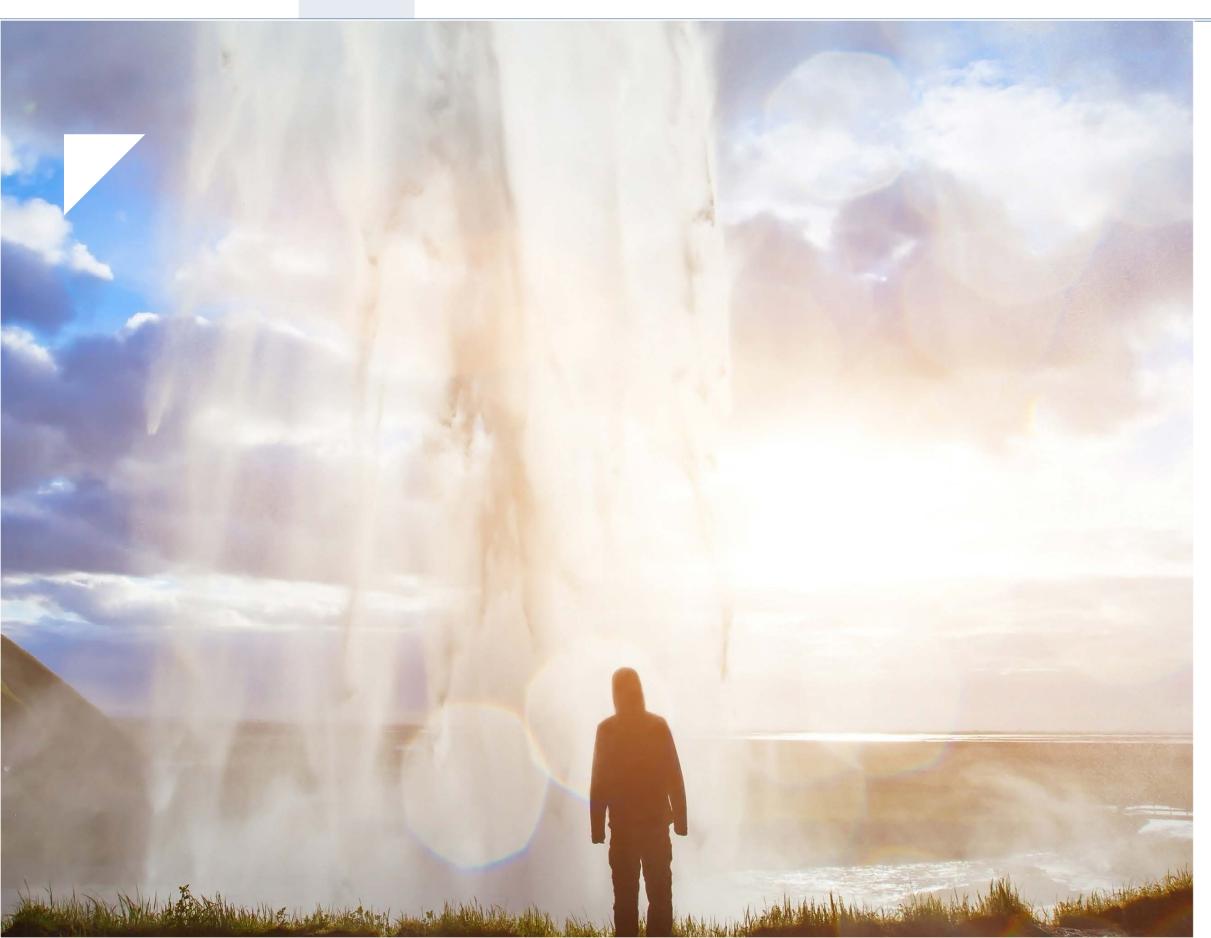
Managing Director's letter	31
Main activities	33
Outstanding innovation programs	41
Social action	44
Results 2019	45



SENER AEROESPACIAL 51

Main activities	54
Outstanding innovation programs	56
Social action	57
Results 2019	58





SENER GROUP

PRESIDENT'S LETTER





Jorge Sendagorta Gomendio, President of SENER Group.

The 2019 financial year was one of the most difficult in SENER's history, as the principal economic figures recorded indicate. The Group's sales fell to 434 million euros, and we had a consolidated after-tax loss of -3.1 million euros.

The reasons for these unfavorable results are to be found in our engineering and construction activities in the field of Energy. In this sector, a deep change in the business model continues to gather momentum: the migration from complex industrial facilities for gas, petroleum and thermoelectric generation towards units of photovoltaic and wind generation, which are conceptually much simpler, as they are projects which require considerably less engineering input and are less complex. This migration has drastically reduced the demand for new "conventional" products, both in the form of engineering services and turnkey or EPC projects. A downturn which has for a number of years been making it difficult to secure enough new orders, and which has also tipped the balance of contracts in favor of investors. In 2019. we incurred additional costs in the completion of a number of Energy EPC projects, and this coupled with the downward trend in performance and

contracts has resulted in a situation which is forcing us to address structural changes in our Energy business unit.

We will continue to carry out engineering and EPC projects for the energy sector, although in the future we will avoid doing so in those scenarios in which the risk-benefit profile is unfairly asymmetric. A selflimitation which, in an already weak market, has inevitably led us to need to reduce the size of the Energy business unit.

This adjustment process, which will be concluded by mid-2020, will undoubtedly be tough for everyone at SENER, given that links have extended far beyond the labor setting in the achievement and shared pride of so many important projects and contributions, in the joint efforts and hopes of creating and defending our future. But we need to take the necessary decisions to enable our company to move forward in these unprecedented times, responding to the real market conditions. We will make the necessary adjustments, working closely with the affected individuals, and we will consider all viable alternatives

to mitigate the impact. In any event, we will treat everyone with dignity and respect.

Fortunately, SENER's development and results in all other business areas have been unreservedly favorable.

WE NEED TO TAKE THE NECESSARY DECISIONS IN THESE UNPRECEDENTED TIMES



The relocation of our Space, Science. Defense and Healthcare operations in the new subsidiary, SENER Aeroespacial, has been completed, unifying them with those of the TRYO Group, acquired in 2018. In 2019, the results of this new company were promising, even though several highly relevant perspectives were delayed during the period. We trust that these will come to fruition in 2020, laying the foundations for significant growth in the immediate future. In Transport Infrastructure and Marine Engineering, we

carried out numerous projects in 2019 worthy of note for their prominence, responsibility and technological content, while also obtaining excellent economic results. The perspectives at year-end were conducive to consolidating the positive developments in these areas.

Also highly satisfactory in 2019 were the operations, production and performance of all our investee companies in the Renewable Investments Group, namely: Torresol Energy Investments and its subsidiaries, Gemasolar, Arcosol and Termesol, as well as Zabalgarbi.

We will get through this difficult period and we will continue to develop SENER in order to offer our clients, and society as a whole, a better service, providing our clients from all over the world with engineering solutions that are always innovative, sustainable and effective, while also responding decisively to the commitment, drive and vocation of our shareholders, executives and professionals.



Jorge Sendagorta Gomedio President of SENER Group A LOOK BACK AT 2019







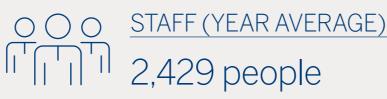
REVENUES € 433.66 MILL.

-**OF THE YEAR**



NON CURRENT ASSETS €299.99 MILL.

TOTAL ASSETS €916.63 MILL.



STAFF (YEAR END) 2,350 people

REVENUES BY GEOGRAPHY

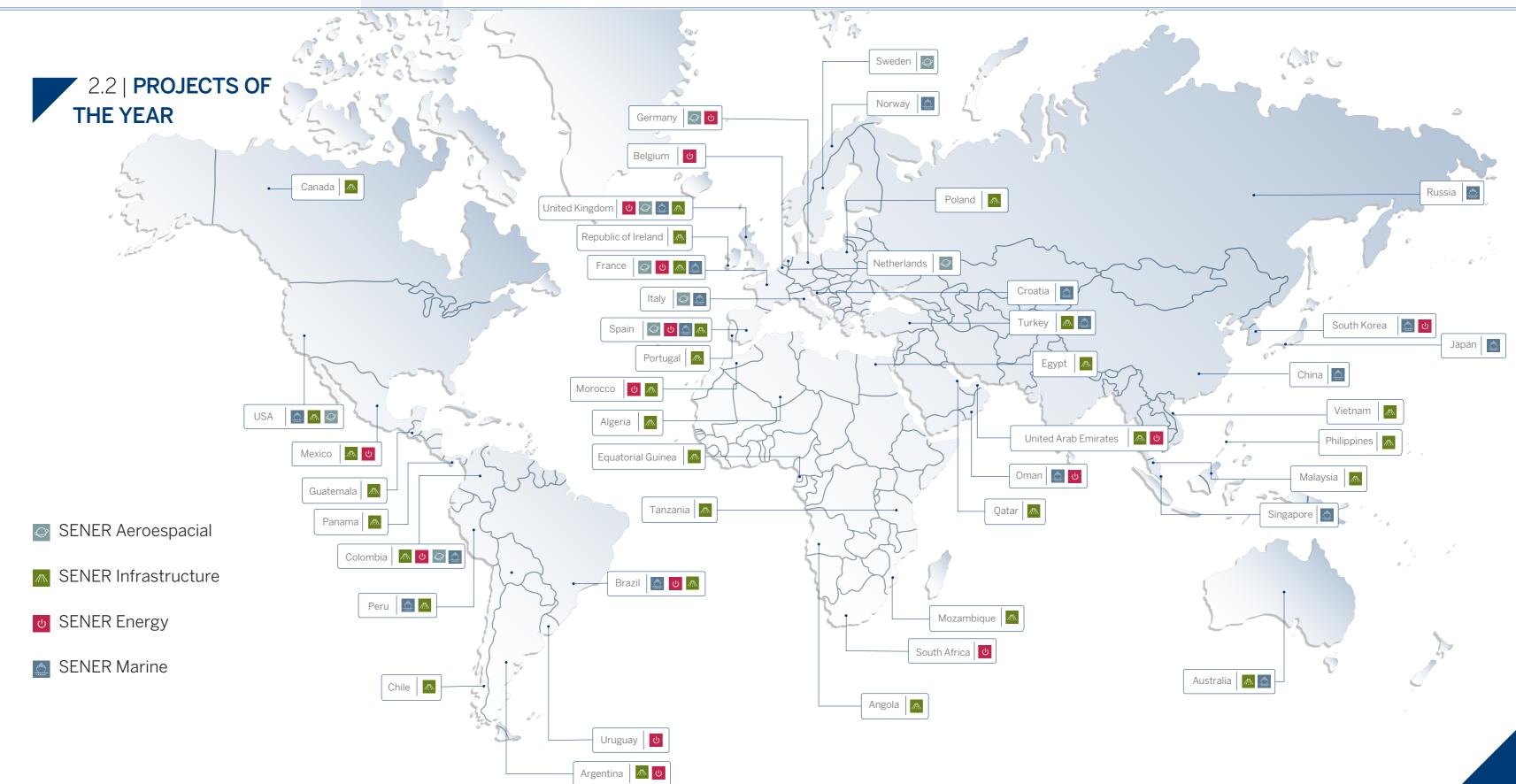
69% Sales outside Spain

31% Sales in Spain

NET RESULT €-3.06 MILL.



A LOOK BACK AT 2019



A COMPANY OF VALUE

THE ADVERTING OF WANTING TO EXCEL

A COMPANY

OF VALUE

3.1 | SHAREHOLDING STRUCTURE AND BOARD OF DIRECTORS

COMPOSITION OF THE BOARD OF DIRECTORS

- President
 Jorge Sendagorta Gomendio. Proprietary Director.
- Vice-President Andrés Sendagorta McDonnell. Proprietary Director.

 CEO Jorge Unda Malcorra. Executive Director.

Board Members

Luis Barallat Sendagorta. Proprietary Director.	
Jordi Canals Margalef. Independent Director.	
José Galíndez Zubiría. Independent Director.	
Rosa García García. Independent Director.	
Juan Gich Roldán. Independent Director.	Q 🗗
Enrique Sendagorta. Proprietary Director. Until 28/06/2019.	

 Secretary (non-Board member) Ignacio Guerra Gimeno.

NUMBER AND TYPE OF SHARES

€34,448,299.60

Issued and paid-up capital

830,680 Registered shares €41.47 Par value/share

LIST OF SHAREHOLDERS

At December 31th, 2019, $100^{\%}$ of the shares in SENER Grupo de Ingeniería, S.A. were held by the **founding family.**



Q

Audit, Risk Monitoring and Regulatory Compliance Commission

Appointments and Remuneration Commission

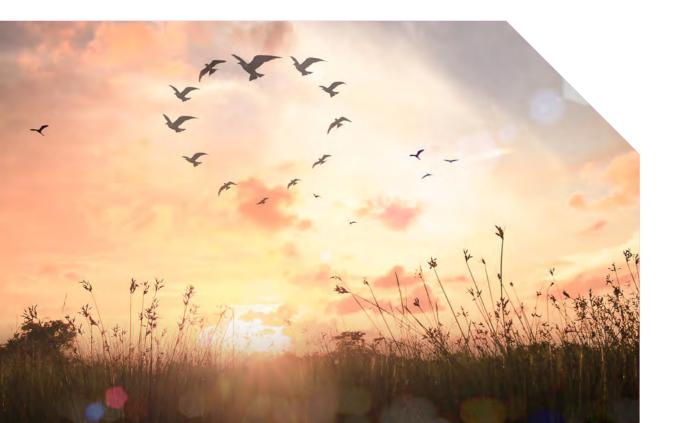
Investment Commission

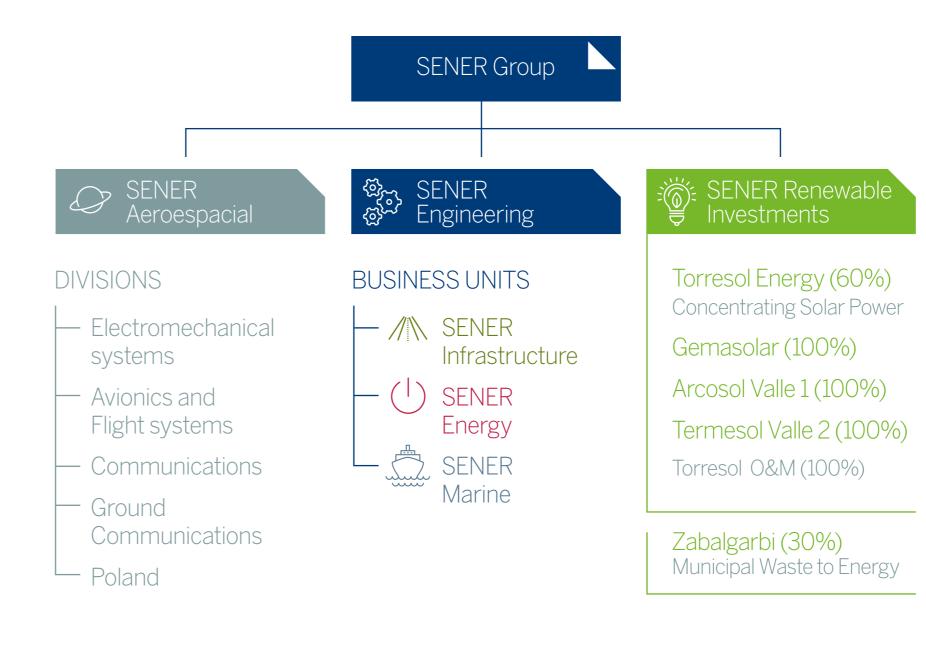
Corporate Identity and Corporate Social Responsibility Commission

A COMPANY OF VALUE

3.2 | CORPORATE STRUCTURE

The SENER Group has proceeded with its reorganization on the basis of resuming its constant vocation of developing its most industrial aspect, without losing sight of the key position that engineering must occupy. The group's organizational chart clearly reflects the separation in 2019 of the activities of SENER Aeroespacial and SENER Engineering, as well as how this led to the emergence of a third arm, under the new name of SENER Renewable Investments





RESULTS 2019



SENER GROUP CONSOLIDATED **ANNUAL FINANCIAL STATEMENTS**

Consolidated balance sheets of the SENER Group at December 31, 2019 and 2018

Assets

Non current assets
Property, plant and equipment
Goodwill
Other intangible assets
Real state investments
Investment accounted for using the equity method
Deferred tax assets
Financial investments in equity instruments
Other accounts receivable
Current assets
Inventories
Trade and other receivables
Other current assets
Cash and other cash equivalents

Total assets

2019	2018	%
299,995	278,022	7.9
23,772	15,419	54.2
39,655	39,579	0.2
15,179	16,263	-6.7
11,350	11,350	-
69,169	52,385	32
125,220	126,423	-1
11,359	11,012	3.2
4,291	5,591	-23.3
616,643	689,305	-10.5
9,609	9,071	5.9
235,704	324,794	-27.4
1,414	1,410	0.3
369,916	354,030	4.5
916,638	967,327	-5.2

Consolidated balance sheets of the SENER Group at December 31, 2019 and 2018

Net equity and liabilities

Net equity

Capital and reserves attributable to the Company's shareholders

Share capital

Share premium

Legal reserve

Accumulated translation differences

Reserve for investments in equity instruments

Hedging reserve

Retained earnings

Non-controlling interests

Non current liabilities

Borrowings

Deferred income tax liabilities

Provisions for liabilities and charges

Current liabilities

Borrowings

Trade and other payables

Advances received for contracted work

Financial derivatives

Provisions for liabilities and charges

Total net equity and liabilities

2019	2018	%
521,462	523,483	-0.4
521,021	522,890	-0.4
34,448	34,448	0
366	366	0
7,894	7,894	0
-14,228	-17,253	17.5
4,415	4,151	6.4
-23,559	-30,727	23.3
511,685	524,011	-2.4
441	593	-25.6
18,766	20,876	-10.1
14,318	10,375	38
3,988	7,941	-49.8
460	2,560	-82
376,410	422,968	-11
26,092	23,128	12.8
202,707	270,834	-25.2
117,283	127,591	-8.1
3	3	0
30,325	1,412	2,047.7
916,638	967,327	-5.2

Consolidated profit and loss accounts of the SENER Group at December 31, 2019 and 2018

Operating profit

Revenue

Other operating income

Changes in inventories of finished products and work in progress

Work carried out by the Group on its fixed assets

Raw materials and other consumables

Employee benefit expense

Depreciation and impairment of fixed assets

Other operating expenses

Charge to provisions for liabilities

Other net gains/(losses)

Financial income/(expense)

Financial income

Financial expenses

Net exchange differences

Shareholdings in the results of associates and joint ventures

Profit before taxes

Corporate income tax

2019	2018	%
-18,516	21,575	-185.8
433,662	589,190	-26.4
6,563	3,751	75
367	-711	151.6
214	266	-19.5
-186,519	-326,704	42.9
-154,825	-163,151	5.1
-8,302	-4,662	-78.1
-84,610	-77,535	-9.1
-25,838	624	-4,240.7
772	507	52.3
1,031	473	118
1,422	5,642	-74.8
-510	-5,217	90.2
119	48	147.9
15,166	7,152	112.1
-2,319	29,200	-107.9
-6,235	-18,446	66.2

Result of the financial year from continuing operations

Result of the financial year from discontinued operations, net of

Consolidated profit/loss for the year

Attributable to

Owners of the parent

Non-controlling interests



	2019	2018	%
	-8,554	10,754	-179.5
of tax	5,494	10,886	-49.5
	-3,060	21,640	-114.1
	-2,585	21,409	-112.1
	-475	231	-305.6

Consolidated cash flow statements of the SENER Group at December 31, 2019 and 2018

Cash flow from operation activities

Result of the financial year before taxe from continuing operations

Result of the financial year before taxe from discontinued operations

Adjustments

Result of the sale of discontinued operations

Depreciation and impairment for PPE and other intangible assets

Changes in provisions

Valuation adjustements due to impairment

Shareholdings in the results of associates and joint ventures

Result of the sale of subsidiary company

Financial costs

Financial income

Other income and expenses

Changes in working capital

Inventories

Trade and other receivables

Other assets

Trade and other payables

Taxes paid

Interests paid

2019	2018	%
21,167	-44,042	148.1
-2,319	29,200	-107.9
5,494	10,886	-49.5
15,052	-12,040	225
-5,494	-10,886	49.5
8,302	4,662	78.1
25,838	-624	4,240.7
551	2,385	-76.9
-15,166	-7,152	-112.1
394	0	-
1,809	5,217	-65.3
-1,422	-5,642	74.8
240	0	-
6,178	-66,931	109.2
-582	109	-633.9
86,249	-55,002	256.8
-108	0	-
-79,381	-12,038	-559.4
-2,414	-1,820	-32.6
-824	-3,337	75.3

Consolidated cash flow statements of the SENER Group at December 31, 2019 and 2018

Cash flow from investment activities

Disposal of subsidiary, net of cash drawn down

Acquisition of subsidiary company, net of cash acquired

Acquisition of PPE, intangible assets and investment property

Payment due to Investments in associates and joint ventures

Receipts from sale of property, plant, equipment and intangible asset

Collections received from associates and joint ventures

Dividends received from associates and joint ventures

Other cash flows from investments activities

Interest received

Cash flow from financing activities

Income from borrowings

Repayment of borrowings

Dividends paid to the company's shareholders

Other dividends paid

Net variation in cash and cash equivalents

Cash and cash equivalents at beginning of the year

Gain/(Losses) on exchange differences of cash and cash equivalents

Cash and cash equivalents at end of the year

	2019	2018	%
	10,606	-41,508	125.6
	7,834	13,544	-42.2
	0	-48,967	100
	-3,332	-13,923	76.1
	-130	-11,450	98.9
ts	75	546	-86.3
	0	11,893	-100
	3,437	1,500	129.1
	1,300	-293	543.7
	1,422	5,642	-74.8
	-15,887	-152,661	89.6
	8,722	1,378	532.9
	-13,692	-24,912	45
	-10,865	-129,127	91.6
	-52	0	-
	15,886	-238,211	106.7
	354,030	592,241	-40.2
5	0	0	-
	369,916	354,030	4.5

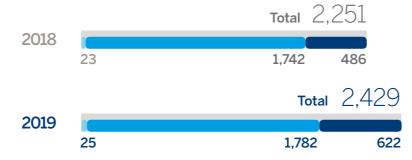
A FOCUS ON PEOPLE

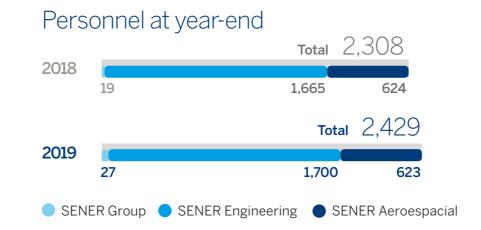
A FOCUS ON PEOPLE

FACING THE CHALLENGE TOGETHER

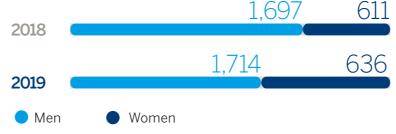
5.1 | **PEOPLE**

Average personnel

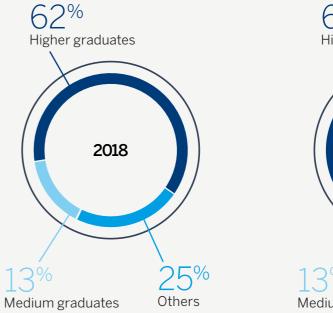


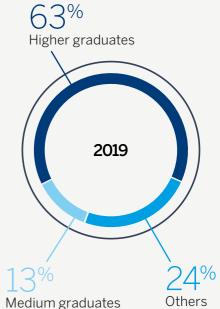


Breakdown by gender



Breakdown by qualification





IN 2019 SENER INCORPORATED NEW TALENT TO **GROW BY 7.9% IN AVERAGE PERSONNEL** A FOCUS ON PEOPLE

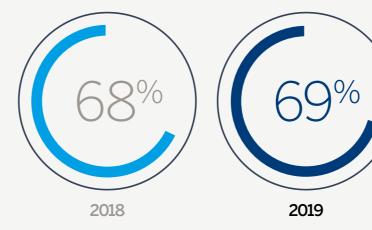
- SENER participated in the creation of the Youth Talent Program in Engineering and in the Graduate Program for the attraction and recruitment of young people.
- A common pre-welcoming and welcoming policy was defined with an international scope.
- With the aim of expanding knowledge within SENER, the Campus Sofia platform was developed, in which individuals are the managers of their own professional development.
- With the aim of improving the company's organizational capacity, a model of roles which recognizes standard posts and levels was determined, specifying the responsibilities and decision-making processes involving individuals.
- A new evaluation process was defined which enables an assessment of the specific competences of each role and of performance through results-based evaluation.
- The international mobility policy was updated.

% HOURS OVER TIME WORKED

 $(- \times -)$



م م م آر آر آر آر WORKFORCE INVOLVED





A FOCUS ON PEOPLE

5.2 | COMMUNICATION

The SENER Communication Management team promoted responsible and transparent communication.



IN 2019, THE PRINCIPAL RESULTS AND KEY PERFORMANCE **INDICATORS WERE:**



In order to **increase** knowledge and the perceived importance of projects:

₿ 24 events

15 fairs and congresses 9 internal events

20 newsletters

1 items of value 29 videos 12 catalogs



SENER brand in the digital environment:

> Youtube 81,143

> 508,577 impressions (+ 32.13 % vs 2018)

In order to enhance the

Corporate website 820,371 hits in 2019

> 90,553 followers (+ 42.33 % vs 2018)

2,743,276 impressions

views (+ 12.5 % vs 2018)



In order to favorably consolidate our corporate reputation:

₱ 5,096 media appearances

> Equivalent advertising value: €10,369,961

DRIVEN BY INNOVATION

WHEREVERTHE CHALLENGES TAKE US

6.1 | **VISION OF INNOVATION**

SENER works on a daily basis with the aim of creating an intelligent future, as it is fully aware of the change that is opening up a highly competitive, constantly changing environment. In this setting, the company is conceiving and adopting a new, more disruptive model, which will be key in the SENER Group's innovative success in the coming years.

To guarantee the implementation of this new business model, the

businesses in the group, driven by their already inherent innovative DNA, will focus their R&D strategies on four basic pillars: digitization, transversality, Big Data and a client-based approach.

With business leadership, SENER is constantly reinventing itself to provide solutions to the challenges posed by society as a whole.

SENER PV tracker in the Valle 1 and Valle 2 plants in Cádiz.





6.2 | ALLOCATED RESOURCES

SENER Aeroespacial has worked on improving the different lines such as: antenna pointing systems for space missions; the development of the SIROM standard robotic interface

for space applications; terrestrial navigation projects for defense applications; reception and goniometry for communications intelligence; and active/passive equipment for new flexible useful loads for communications satellites; new antenna models for primary and secondary air traffic control radar; and avionics, with the development of **Multiprocessor System on Chip technology**, which will enable compact, flexible and efficient solutions for the management of both space and defense systems.

At SENER Infrastructure, innovative solutions have been developed around **BIM** (Building Information Modeling) aimed at providing new technology implementation services. In the setting of urban transport, work has been carried out on an innovative station concept based on modularization. as well as **RESPIRA®**. a new intelligent system for ventilation management on underground systems. Work has also continued with the

development of **EXCAVA**, a platform for controlling the operating parameters of tunnel boring machines employing Artificial Intelligence, and with the development of **BLOCKSAT**, a radio-based railway signaling system for safely controlling a railway line without the need to install equipment on the track.

SENER Energy has focused its efforts on reducing the costs of the principal thermosolar power plant systems, such as heliostats, storage systems and salt tanks. Progress has also been made in the development of **SENER Digital Plant**, the objective of which is the remote monitoring of data from industrial plants for the creation of new business models from Operation and Maintenance (O&M). The **SENSOL** energy generation plant simulation software incorporates new capabilities required for the changing setting in which we find ourselves. In photovoltaic, in-house software for the techno-economic analysis and optimization of photovoltaic plants with builtin BIM methodology has been developed. Lastly, a study of Solid Urban Waste (SUW) gasification technologies has been promoted for application on an industrial scale in waste treatment plants.

SENER Marine

incorporated improvements to the **FORAN** system, machine learning components, artificial intelligence, analysis and treatment of Big Data.

Worthy of note in **Marine Engineering**, was the development of a new design for storage tanks for pressurized liquefied natural gas.

SENER EARMARKED 19.6 MILLION EUROS FOR R&D, FOCUSING ITS EFFORTS ON DIGITIZATION

6.3 | EXTERNAL HONORS AND AWARDS FOR INNOVATION

SENER Mexico **received a TOP Companies award** in the Top Reward category for its internal policies aimed at fostering technological innovation in all its projects. TOP Companies is the leading firm in the diagnosis and strengthening of organizational culture. SENER, along with ACCIONA and Kathu Solar Park,

received the Best Sustainable Renewable Energy Project

(10 MW +) award for the Kathu Solar Park project in the 2019 African Utility Week awards. The ceremony brought together the most renowned professionals in the energy and water industries in Africa. SENER Aeroespacial received the **Best Improver**, award, given by Airbus Defense & Space, in the Equipment & Systems category for the Inmarsat-9 METOP projects.







Recognition for Kathu Solar Park as "Best Sustainable Renewable Energy Project" in the 2019 African Utility Week awards.

DRIVEN BY INNOVATION

6.4 | INTERNAL HONORS AND AWARDS FOR INNOVATION

16th EDITION OF THE SENER INNOVATION AWARDS

- These awards encourage innovation, an essential value on which the SENER corporate culture is based.
- They recognize the people who contribute to maintaining SENER's technological leadership and competitiveness in the market.



CATEGORY

TECHNOLOGIES AND BUSINESSES

METOP: design of high-performance receivers for meteorological radiometers. Thanks to the features developed in its MicroWave Sounder (MWS), MicroWave Imager (MWI) and Ice Cloud Imager (ICI) instruments, which offer substantial improvements in the quality of their measurements.

CATEGORY

ADVANCED TOOLS AND PROCESSES

SIRECA: Software application developed entirely in SENER for the swifter automation of tasks and the more reliable, efficient, fast and flexible implementation of projects, improving quality while reducing costs.



4th SENER Innovation Forum.

CHIEF TECHNICAL ENGINEERS

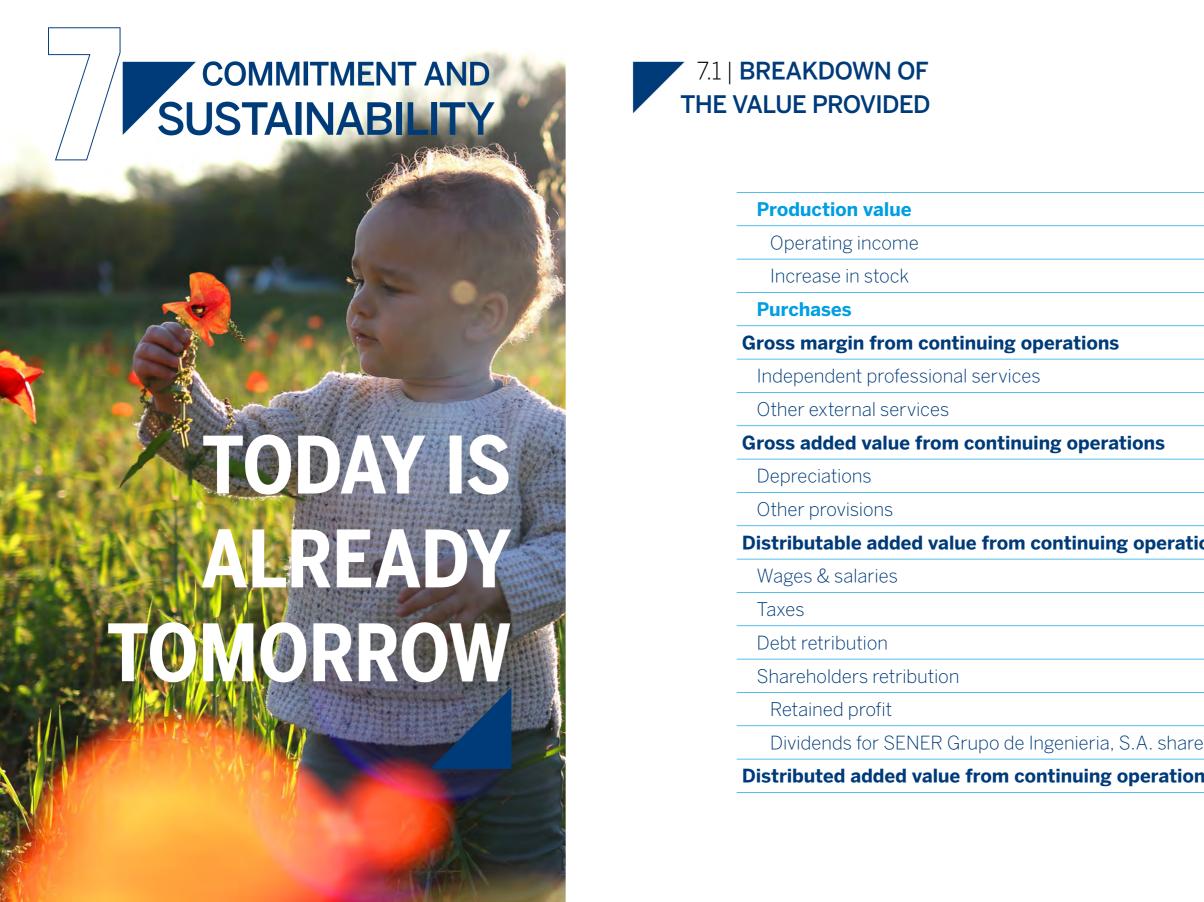


Full members of the SENER Innovation Forum and advisers on the SENER R&D&i Committee.

Members

- Joaquín Botella Malagón Railways.
- Carlos Compostizo Sañudo Space Mechanisms.
- Guillermo Dierssen Sotos Geotechnics and tunnels.
- Jesús María Lata Pérez Solar energy.

- **Carlos Miravet Fuster** Optics and Image Processing.
- Alfonso Muñoz Hernández Aerospace Actuation and Control Electronics.
- **F** Rafael Rebolo Gómez Fluid Dynamics.
- Jaume Solé Bosquet Noise and Vibration Control.



	2019	2018
	440,806	592,496
	440,439	593,207
	367	-711
	186,519	326,704
	254,287	265,792
	19,188	11,588
	64,915	63,808
	170,184	190,396
	8,302	4,662
	25,573	1,008
ions	136,309	184,726
	121,353	128,515
	39,707	53,082
	-16,197	-7,625
	-8,554	10,754
	-19,419	6,218
eholders	10,865	4,536
ns	136,309	184,726

Taxes paidSocial SecurityCorporate income taxR&D&I investmentDonationsWages & salariesSocial contribution from continuing operations

Employees

2019	2018
35,886	36,456
33,472	34,636
2,414	1,820
19,628	21,207
177	170
121,353	128,515
177,044	186,348
2,350	2,308



7.2 | SOLIDARITY **INITIATIVES**

Corporate responsibility has been part of SENER's culture since the outset. Committed to contributing to the progress of society through engineering for over six decades, SENER pursues its mission to provide a service that helps improve people's well-being. In 2019, these initiatives included, among others:

- Collaboration of SENER in Mexico with the **Casa Hogar** Jaral. Donation of personal hygiene products, toys, furniture and clothes for girls with motor and intellectual disabilities cared for by this institution.
- Collaboration with the Bizkaia - Osakidetza Blood **Donors Association** and the Spanish Red Cross in blood donation campaigns.

- Donations of corporate **merchandising** for charity markets for foundations. schools and NGOs.
- Donation to the Pablo **Horstmann Foundation**

to improve access to health care among the child population at **Pablo Horstmann Pediatric** Hospital in Lamu, Kenya.

SENER FOUNDATION

The SENER Foundation awarded the Prize for the best doctoral thesis in engineering for works submitted in 2018. The prize was given to the thesis by Dr. Sara Mateo, for her work titled "Towards the development of highly efficient microbial fuel cells".



Interview with Sara Mateo, 2018 Best Doctoral Thesis Award

UNIVERSITY AWARDS AND PROGRAMS SPONSORED BY SENER

UC3M-SENER Aeroespacial

Chair. University-business initiative for the development of a university technology demonstration satellite mission. in collaboration with the departments of Aerospace, IT, Electronic Technology and Signal and Communications theory at the Carlos III University of Madrid (UC3M).

Sponsorship of Formula Student Bizkaia (FSB2019),

integrally designed by the students from the Higher Technical School of Engineering of Bilbao (UPV, Spain), and mentoring of the members of the racing car creation team.

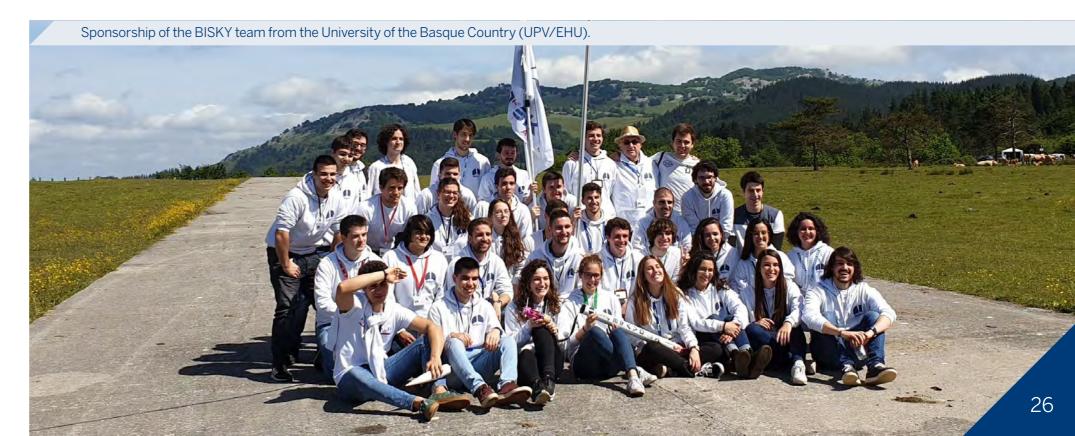
Sponsorship of the BISKY team, the first team of students from the University of the Basque Country (UPV/ EHU) to participate in the chance of launching a rocket to the Karman line, at an altitude of 100 Km, considered to be the boundary between the Earth's atmosphere and outer space.

Participation in the **Master's** degrees in Sustainable Energy Engineering and in Research into Energy Efficiency and Sustainability in Industry, Transport, Building and Urban Planning at the University of the Basque Country, with two seminars on solar thermal energy.

Participation in the **continuous** training course on BIM management from the

University of Cantabria, giving two classes on the role of the BIM manager in infrastructure and energy projects.

Participation in the **IDEAS program** for integration into teaching of civil engineering companies in the School of Civil Engineering of Santander, offering a training session on BIM in civil works.

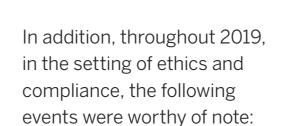


COMMITMENT AND SUSTAINABILITY

7.3 | GOOD PRACTICES

Despite not being listed, the SENER Group has conducted a detailed analysis of the "proposal to amend certain recommendations of the Code of Good Governance of Listed Companies" published by the Spanish National Stock Market Commission (CNMV) on January 14, 2020, to align itself with the CNMV's good governance requirements.

In 2019, the diagnosis, design and effective implementation of the model for the prevention and detection of criminal offenses was addressed in SENER Aeroespacial to respond to the need to unify two different businesses –one internal due to a demerger and one external due to an acquisition– which configured new operations and activities, and which gave rise to new criminal risks which needed to be analyzed specifically. Accordingly, SENER has five models for the prevention and detection of criminal offenses: SENER Group, SENER Engineering, SENER Aeroespacial, Torresol Energy and SENER Mexico.



- Preparation and publication of the third version of the code of conduct.
- Preparation and publication of the group's new compliance policy.
- Review, redefinition and extension of the scope of the ethics line.

The compliance function is a clear priority for the SENER Group, which has marked out a road map and opened up a strategic reflection to cover the needs and development that compliance must address in the future, and taking an international context into account.



 Implementation of the third-party compliance check procedure which is integrated into the bid preparation and bid risk management processes.

 Implementation of a new corporate screening tool for integrity and background checks.

 Training of the SENER Brazil management team in matters of compliance and integrity.



7.4 | HEALTH AND SAFETY, **ENVIRONMENT AND QUALITY**



OCCUPATIONAL HEALTH AND SAFETY

Since 2014. SENER has had a health and safety management system certified to OHSAS 18001. Since 2017, the group has been reporting accident indicators in line with the standards of the American Occupational Safety and Health Administration (OSHA), which are benchmarks in the business setting in which the company operates.

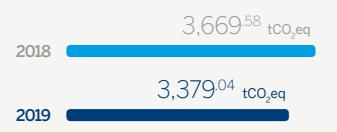
SENER RECORDED NO CASES OF WORK-**RELATED ILLNESS IN 2019**



SENER workers at the passenger train work site in Toluca (Mexico).

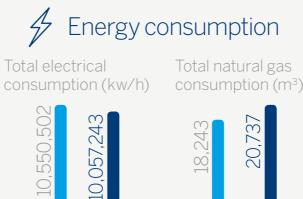
Greenhouse (CO₂) gas emissions

Total equivalent emission



Air, noise and light pollution

SENER's plants and facilities comply with the local legal requirements regarding emission limits.

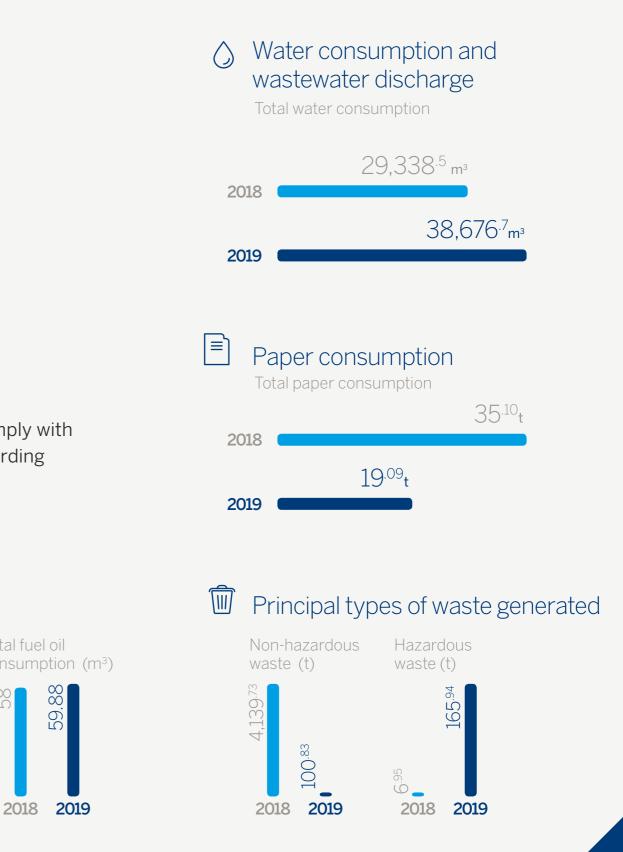


2018

2019



Total fuel oil consumption (m³)



ENVIRONMENT

SENER has been certified according to ISO14001 in its centers in Madrid, Biscay (Las Arenas), Barcelona, Valencia, Mexico, Argentina, Brazil, Portugal, Poland and Abu Dhabi since 2014. The company has the capacity to make energy efficiency

improvements in those plants it designs, offering its clients substantial optimization in terms of sustainability.

With regard to the corporate objective in terms of reducing the company emissions, it adopted measures to:

- Reduce electricity consumption in SENER facilities.
- Reduce transport and journey requirements for SENER employees.
- Promote electrical vehicles.



QUALITY

SENER performs quality management based on two operations: on the one hand, through a program of internal audits as a method for guaranteeing its integrated Quality and Health, Safety and Environment System; and on the other hand, through the participation of Quality personnel in the teams of all projects undertaken.

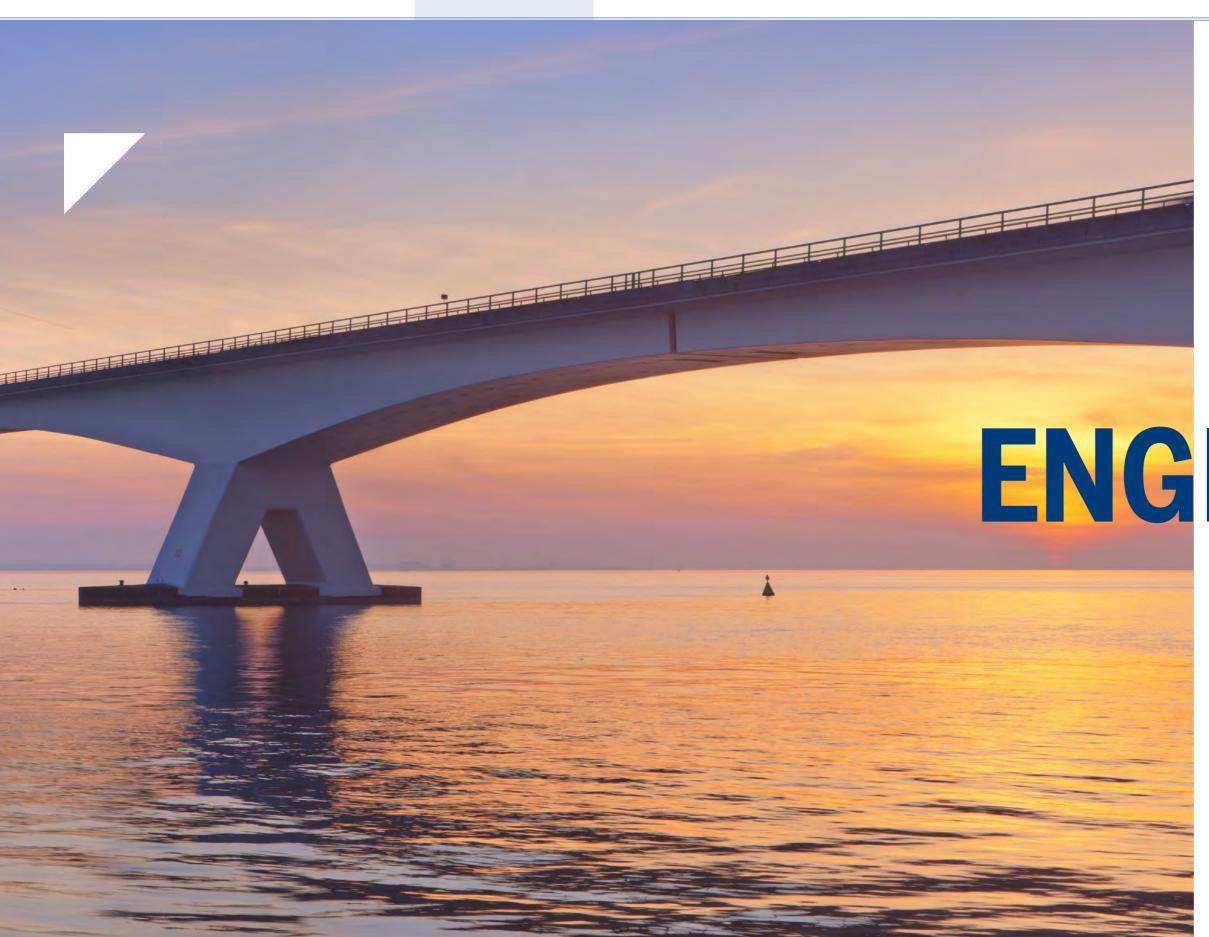
The company is certified by Lloyd's Register in accordance with ISO 9001 and 14001, among others.





Meteogune photovoltaic plant with SENER technology, allowing optimal use of solar radiation in the Basque Country (Spain).





SENER ENGINEERING

MANAGING DIRECTOR'S LETTER

SENER ENGINEERING MANAGING DIRECTOR'S LETTER



Jorge Sendagorta Cudós, Managing Director of SENER Engineering.

2019 was a year of contrasts for SENER Engineering. We performed very well in Infrastructure and Marine, although it was a disappointing year for Energy, both in terms of margins and in the contracting of new projects.

Beginning with our Marine business, results were satisfactory across the board. Fulfilment was high, execution margins were good, and contracting was the bestever. In Marine Engineering, the contract secured for the design of an icebreaker, which will place us at the forefront of building vessels of this type, deserves special mention. We are continuing to work on the FORAN System to progress as the benchmark in an ever-changing environment. Clients are digitizing their processes, and this new approach will require us to be ready to adapt to the new needs.

In Energy, the year was impacted by numerous difficulties. The lack of contracting in previous years was mirrored by poor fulfilment. Margins suffered on account of the deterioration of certain projects, which ran into execution problems. New project contracting also failed to live up to expectations. This all yielded a poor result, which provides us with food for thought about the situation of this business unit. The energy world is evolving towards new models. SENER must be capable of repositioning itself in order to continue to compete in this setting, recovering stability and profitability.

IN ENERGY, THE YEAR WAS IMPACTED BY NUMEROUS DIFFICULTIES

MANAGING DIRECTOR'S LETTER



WE MUST CONTINUE TO **BUILD SOLUTIONS THAT** MAKE US A CUT ABOVE THE REST AND WILL ENABLE US TO COMPETE

The year was very positive in the Infrastructure business unit, thanks to high fulfilment and very good execution in terms of project outcomes. Contracting did not live up to expectations, as certain projects were delayed past December, although many of

these opportunities are being consolidated in 2020. We are growing in those geographic areas that interest us and we are developing technological capabilities that set us apart. This all provides us with a positioning that will enable us to rise to the challenge of growing.

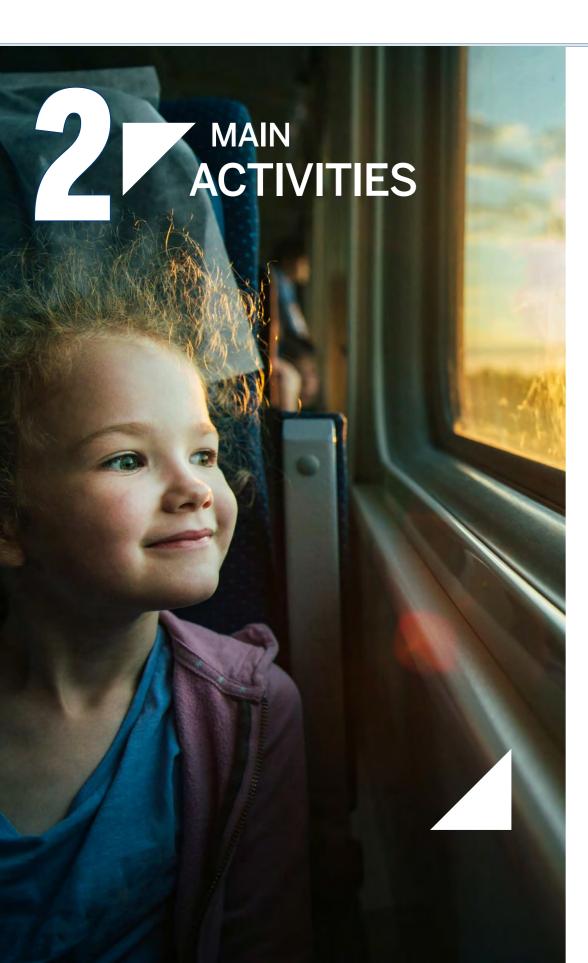
Overall, the three businesses yielded negative results for the year for SENER Engineering. The good performance in Marine and Infrastructure was insufficient to offset the below-par showing in Energy.

While it is clear that we face demanding challenges, SENER is more than ready to contend with them. Our technological capabilities, our transversal nature and the human quality of our people should provide us with the foundations upon which to continue to build solutions that make us a cut above the rest. and will enable us to compete, now and in the future.





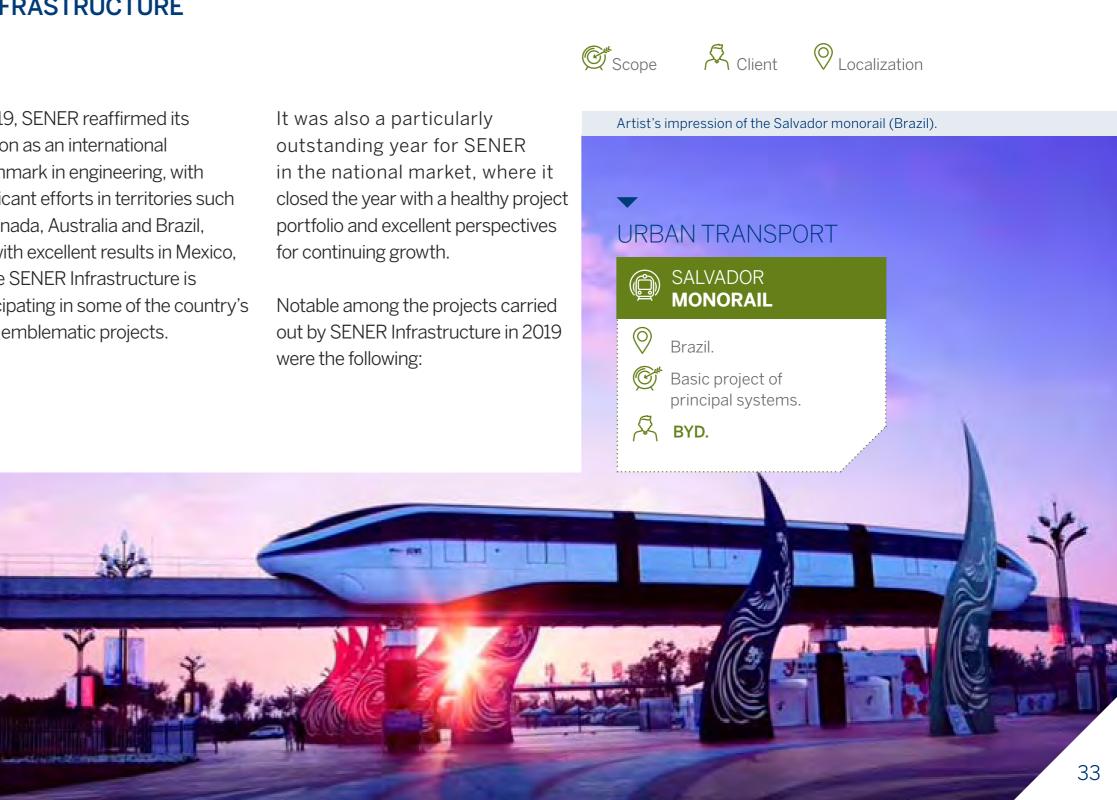




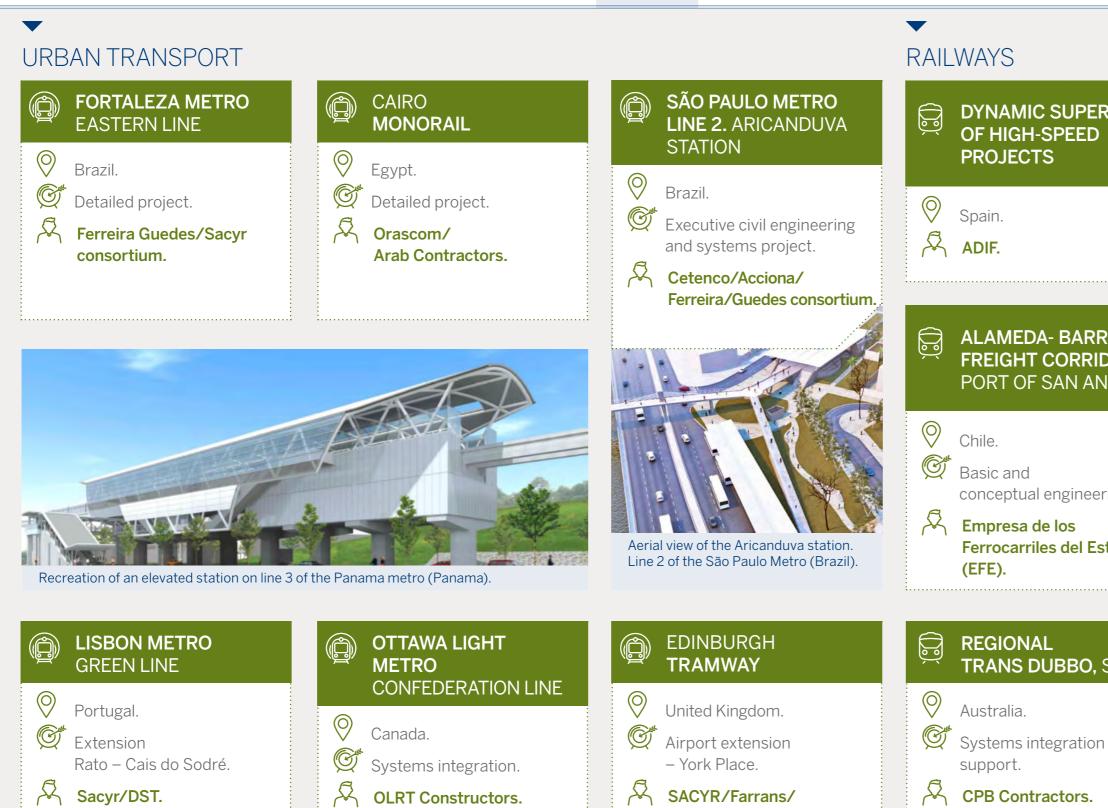


In 2019, SENER reaffirmed its position as an international benchmark in engineering, with significant efforts in territories such as Canada, Australia and Brazil, and with excellent results in Mexico, where SENER Infrastructure is participating in some of the country's most emblematic projects.

were the following:



Neopul.



Maintenance facilities in the Dubbo regional railway, in New South Wales (Australia).

DYNAMIC SUPERVISION

TREN MAYA



Basic Engineering.

National Fund for the **Promotion of Tourism** (FONATUR).

ALAMEDA- BARRANCAS FREIGHT CORRIDOR. PORT OF SAN ANTONIO

conceptual engineering.

Ferrocarriles del Estado



Ģ

Second phase of the preliminary project, basic projects and construction projects.

URBAN INTEGRATION

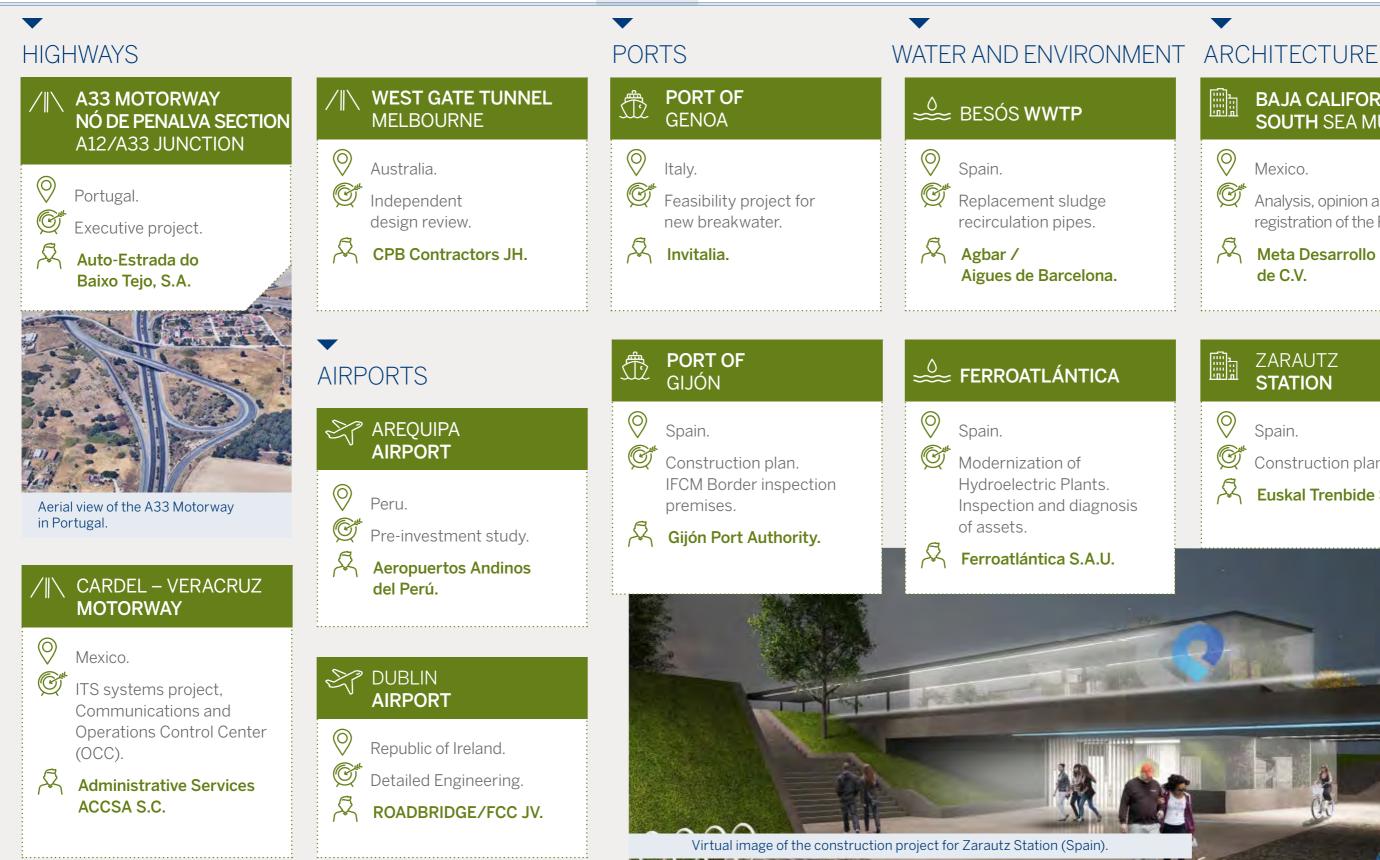
IN ALMERÍA

OF HIGH SPEED TRAIN



TRANS DUBBO, SIDNEY





Mexico.

BAJA CALIFORNIA

Analysis, opinion and

A Meta Desarrollo S.A.

SOUTH SEA MUSEUM

registration of the PPP project.

 \bigcirc

Gut

ZARAUTZ STATION

de C.V.

© Construction plan.











2.2 | **SENER ENERGY**

The contraction of SENER Energy's project portfolio in 2019 was the result of both the change in the world energy model and the political situation in certain key countries for SENER, on top of the low levels of investment in Spain.

In this setting, SENER is contemplating a new strategic approach aimed at the hybridization and manageability of renewable energies, offshore wind and digitization, maintaining traditional businesses such as liquefied natural gas and thermal generation, which still has some way to go in the energy transition.

Among the most positive notes of the year, SENER highlights the improvement of risk management in turnkey projects and the co-generation contracting of Scholven, for UNIPER in Germany, as an essential project for reinforcing its presence in Western Europe.

The projects carried out in SENER Energy during 2019 were as follows:

OIL & GAS



SENER IS CONTEMPLATING AND MANAGEABILITY OF

 \bigcirc

RENEWABLE ENERGY

KINCARDINE OFFSHORE **FLOATING 50 Mw MW WIND FARM** IN ABERDEEN

\bigcirc Scotland.

Ø

Supervision of the manufacture of the floating turbines, technical feasibility analysis and technical assistance in the monitoring of the plant.

R Cobra.



Floating wind turbine in the Kincardine offshore wind farm in Scotland © Cobra

OFFSHORE FLOATING WIND TURBINES IN EUROPE



Europa. Framework support agreement for engineering.

Q Iberdrola.

KATHU THERMOSOLAR PLANT

 \bigcirc South Africa.

Office Delivery and commercial operation.

KATHU SOLAR PARK Ltd.

METEOGUNE PHOTOVOLTAIC PLANT

 \bigcirc Spain. Ø



Installation of single-row SENER PV trackers.

A Meteo For Energy, Álava Technology Park.

CONSTRUCTION OF SURF LAGOON SPORTS FACILITIES

- Seoul (Korea), Malaga (Spain), Valais (Switzerland) and Fazenda Do Grama (Brazil).
- Turnkey contract framework agreement for the design, manufacture and supply of wave generation systems.



INDUSTRIAL POWER AND SOLUTIONS

 \bigcirc

ELECTRICITY SERVICES **PLANT** GUADALUPE NUEVO LEÓN

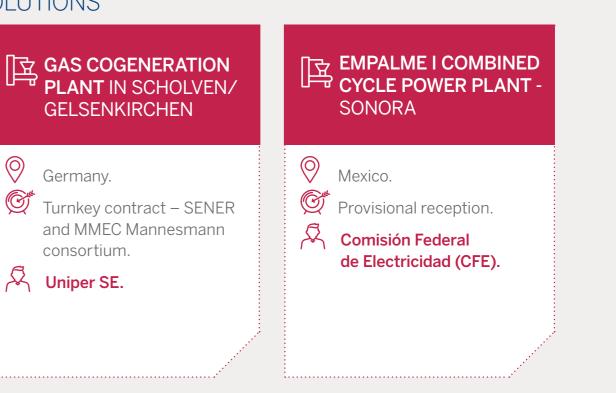


💇 Basic and detailed engineering, purchasing, construction and commissioning.





Leisure installation for wave generation, Wavegarden Fazenda Do Grama (Brazil).



© Scope



MARINE ENGINEERING



SENER Marine achieved excellent contracting, performance and margin results in 2019, exceeding the budget and all historical records. The company has also embarked on an ambitious renewal plan for the FORAN System, with the aim of maintaining its position as a leader in the field of technology. This plan has been accompanied by new contracts

2.3 | **SENER**

MARINE

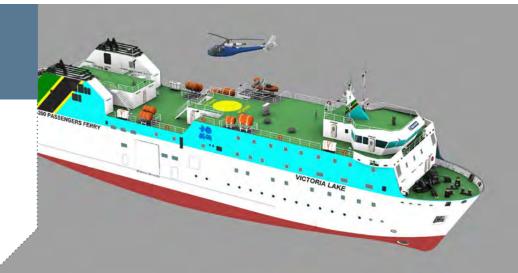
and the extension of previous contracts all over the world. including the most important areas for shipbuilding, such as China and Korea and in all sectors: military, where FORAN tops the rankings, commercial and offshore.

The projects carried out in SENER Marine during 2019 were as follows:

Solution for the supply of liquefied natural gas (LNG) for the ship owner, Panfido.

1,200-PASSENGER FERRY FOR LAKE

Conceptual, basic and



1,200 passenger ferry for Lake Victoria (Tanzania).



MARINE ENGINEERING





SELF-PROPELLED BARGE FOR THE RIVER TRANSPORT OF VINYL CHLORIDE (VCM)



United Arab Emirates.

Feasibility analysis and conceptual project.



Kem One.



PROJECTS FOR NEW CONSTRUCTIONS AND **CONVERSIONS FOR LIQUEFIED** NATURAL GAS



China and Singapore.

Technical assistance and construction inspection.

A Mitsui O.S.K. Lines.



ANALYSIS OF THE MARINE LOGISTICS CHAIN FOR LIQUEFIED NATURAL GAS

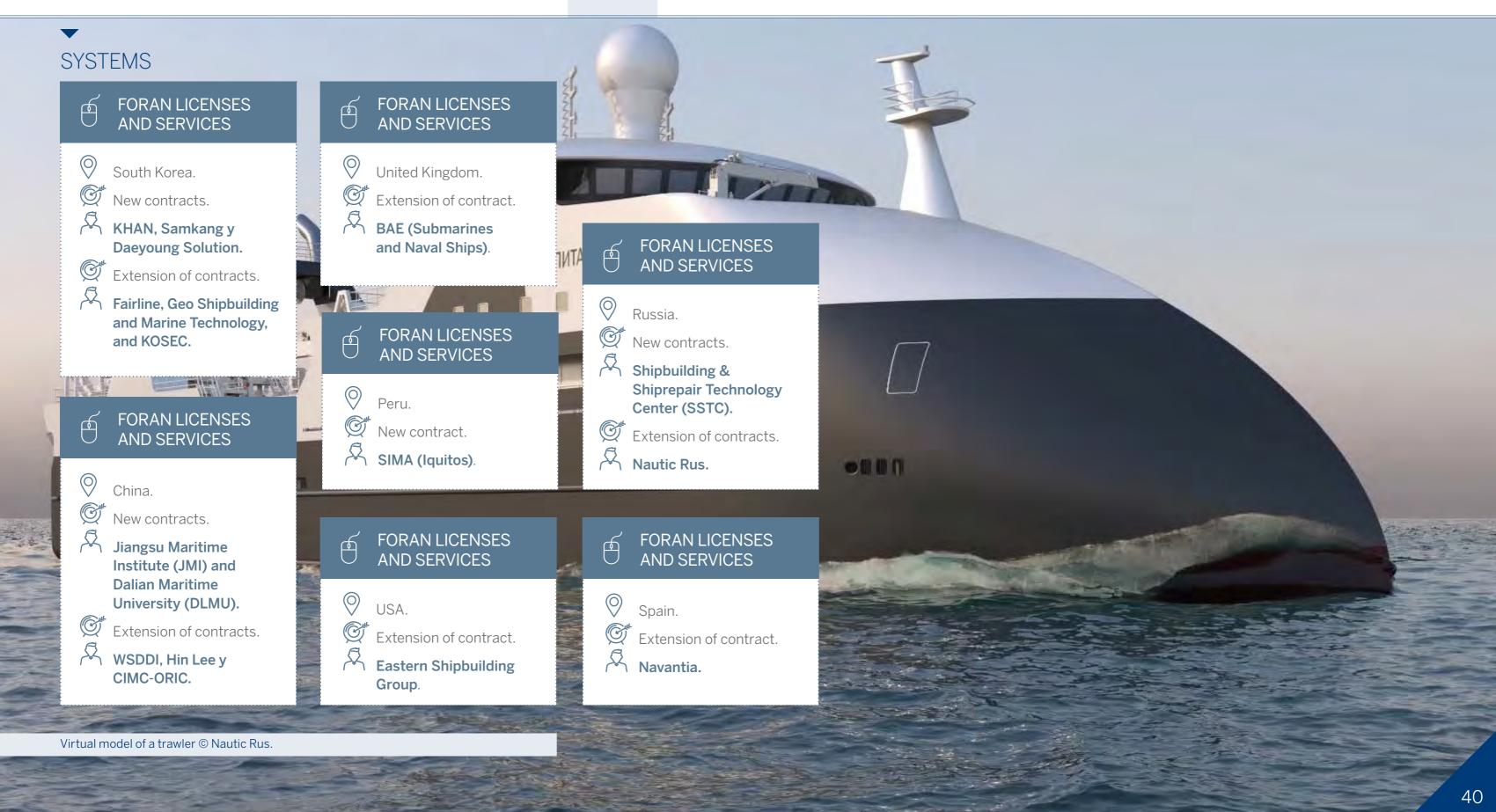


Spain.

Definition of demand scenarios and site optimization.



Enagás.

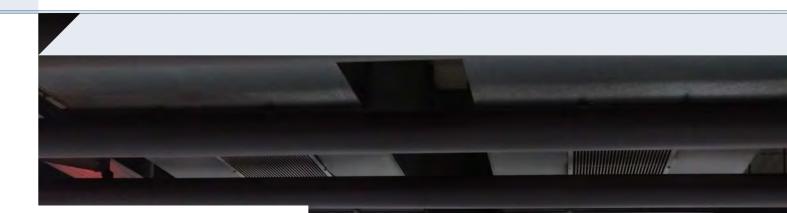


OUTSTANDING INNOVATION PROGRAMS

OUTSTANDING INNOVATION PROGRAMS



- Development of RESPIRA[®], an intelligent ventilation control system in underground networks, currently being implemented in the Barcelona Metro. through a partnership agreement with Ferrocarril Metropolità de Barcelona.
- As part of the Horizon 2020 program, participation in the Assets4Rail project to foster the EU Shift2Rail rail innovation scheme. In partnership with the University of Leeds, the Sapienza University of Rome, the Technical University of Berlin and the Technical University of Vilnius Gediminas.



- In the setting of the Basque Government's Hazitek program, strategic development of **NiERBIMO** (Near zero emission building incorporating renewable energies, BIM, maintenance and operation) in partnership with the IK4 and TECNALIA technological centers.
- Development of the Master Station, a functionally optimized, safe, interactive and connected station for urban transport systems, and which has a configuration of standard elements which, in a BIM setting, is conducive to its optimal customization and the creation of an attractive image to improve the traveler's experience.

RESPIRA® IMPROVES COMFORT THROUGH ITS ACTION ON THE TEMPERATURE, AIR QUALITY, REDUCTION OF MICRO-ORGANISMS, ETC



PROPER 04:0

3.2 | SENER ENERGY

- Carrying out of advanced load and performance simulation for floating offshore wind energy.
- Development of a procedure for treating solid urban waste, aimed at material recovery through the production of recycled synthetic gas and the subsequent use thereof for chemical synthesis.
- Monitoring the performance of single-row and multiple-row photovoltaic prototypes, and advances in the development of

- the software tool for automated definition of the optimal configuration of photovoltaic plants.
- Development of green hydrogen production using an electrolyzer powered by renewable energy as well as the production of hydrogen through the autothermal reforming of ethanol.

Equipment for the production of green hydrogen by means of the autothermal reforming of bio-alcohols.

Progress in the integration of different technologies in the same plant:

thermosolar with biomass, photovoltaic with batteries and hydrogen, thermosolar with photovoltaic, etc.

Development of the design of **high-powered electric heaters**, aimed at extending the application setting in the salt storage system.

Development of industrial plant digitization activities,

particularly in thermosolar plants, and the development of ad hoc solutions. Development of different R&D projects: Seapower (offshore wind energy);
 Alcasal (storage in molten salts); Recygas (material recovery of solid urban waste); and Tesol 4.0 (digitization of industrial plants), all through the Hazite Program, subsidized by the Basque Government (Spain)

Floating platform to house high-powered wind energy turbines.



OUTSTANDING INNOVATION PROGRAMS

3.3 | SENER MARINE

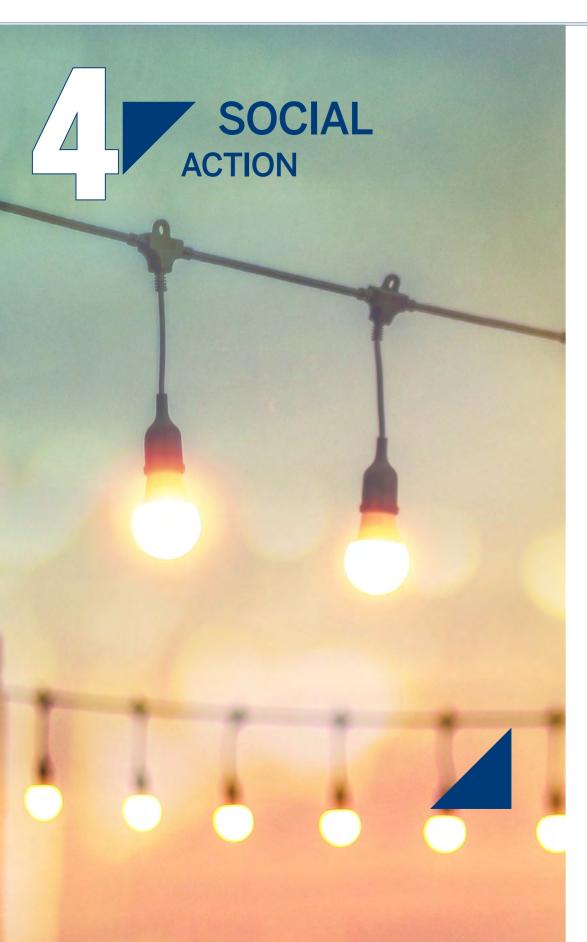
 In Engineering, the development of a global model of port solutions

for the use of liquefied natural gas has been completed, and work has started on the design of a sustainable, low-emissions vessel for passenger and vehicle transport. In Systems, initiatives have been launched for the use of FORAN Assistant and FORAN Asset Management,

artificial intelligence technologies, forming part of the concept of Shipyard 4.0, which SENER has been developing and applying to its FORAN system for some time.

FORAN ASSISTANT AND FORAN ASSET MANAGEMENT AS ARTIFICIAL INTELLIGENT TECHNOLOGIES





4.1 | RELATIONS WITH UNIVERSITIES AND RESEARCH CENTERS

Agreement with the National Autonomous University of Mexico, the Technological Institute of Monterrey, the National Polytechnic Institute, and the National Institute for Electricity and Clean Energies to collaborate in technological developments and research projects.

Collaboration with the TECNALIA Technological Center in a number of developmental lines in the area of Energy and Processes, and with the TEKNIKER Technological Center in the area of control, within the development of advanced floating offshore wind simulation.

In the setting of the development of waste gasification, SENER has collaborated with different technological centers, includ GAIKER, CENER, and the Carbochemistry Institute of the Spanish National Resear Council (ICB-CSIC).

Collaboration in the European Within the AIRIS II - Synchro Horizon 2020 Program in Innovation project, in partnership the FLExible Dimethyl ether with the Port Authority of Seville, production from biomass SIPORT21 and the Universities Gasification with sorptionof Seville and Malaga, the enhancED processes development of a pilot application (FLEDGED) project and in the for the synchromodal planning SIROM project. of road, rail and maritime port operations in the Port of Seville.

Collaboration with the Welding Institute (United Kingdom) in validating the design and exploring alternative welding processes for steel recipients of great thicknesses.



ding	Collaboration with the Higher
	Technical Institute of Lisbon
f	(Portugal) in the simulation of
rch	loads and performance in offshore
	wind generators.

AIRIS II project for the digitization of the waterway of the River Guadalquivir AIRIS II, Port of Seville (Spain).



SENER ENGINEERING CONSOLIDATED **ANNUAL FINANCIAL STATEMENTS**

Consolidated balance sheets of the SENER Ingeniería y Sistemas, S.A. at December 31, 2019 and 2018

Assets

Non current assets

Property, plant and equipment

Goodwill

Other intangible assets

Investment accounted for using the equity method

Deferred tax assets

Other accounts receivable

Current assets

Inventories

Trade and other receivables

Short term loans to related parties

Other current assets

Cash and other cash equivalents

Total assets

2019	2018	%
104,542	121,068	-13.7
13,091	4,716	177.6
7,793	9,611	-18,.9
655	5,639	-88.4
9,439	8,677	8.8
70,283	89,651	-21.6
3,281	2,774	18.3
376,805	487,078	-22.6
0	6,146	-100
192,271	296,463	-35.1
4,284	4,431	-3.3
946	1,117	-15.3
179,304	178,921	0.2
481,347	608,146	-20.9

Consolidated balance sheets of the SENER Ingeniería y Sistemas, S.A. at December 31, 2019 and 2018

Net equity and liabilities

Net equity

Share capital

Share premium

Legal reserve

Accumulated translation differences

Hedging reserve

Retained earnings

Non-controlling interests

Non current liabilities

Borrowings

Deferred income tax liabilities

Provisions for liabilities and charges

Current liabilities

Borrowings

Trade and other payables

Advances received for contracted work

Provisions for liabilities and charges

Total net equity and liabilities

2019	2018	%
151,981	210,734	-27.9
151,540	209,842	-27.8
6,018	6,018	0
2,418	2,418	0
1,213	1,213	0
-14,492	-15,680	7.6
0	-801	100
156,383	216,674	-27.8
441	892	-50.6
11,387	10,308	10.5
11,007	10,500	10.5
10,579	5,424	95
10,579	5,424	95
10,579 524	5,424 4,474	95 -88.3
10,579 524 284	5,424 4,474 410	95 -88.3 -30.7
10,579 524 284 317,979	5,424 4,474 410 387,104	95 -88.3 -30.7 -17.9
10,579 524 284 317,979 6,562	5,424 4,474 410 387,104 5,890	95 -88.3 -30.7 -17.9 11.4
10,579 524 284 317,979 6,562 175,973	5,424 4,474 410 387,104 5,890 255,285	95 -88.3 -30.7 -17.9 11.4 -31.1

Consolidated profit and loss accounts of the SENER Ingeniería y Sistemas, S.A. at December 31, 2019 and 2018

Operating profit

R	le\	/e	nı	16	9
	· · ·	~			

Other operating income

Raw materials and other consumables

Employee benefit expense

Depreciation and impairment

Other operating expense

Charge to provisions for liabilities

Other net gains/(losses)

Financial income/(expense)

Financial income

Financial expenses

Net exchange differences

Share in profit/(loss) of equity-acccounted investees

Profit before taxes

Corporate income tax

(*) Figures restated in accordance with the spin-off of the Aerospace business, the result of which is presented under the heading "Profit for the year resulting from discontinued activities, net of tax" of the consolidated profit and loss account for both years.

2019	2018 (*)	%
-26,580	18,677	-242.3
336,060	504,779	-33.4
7,202	1,599	350.4
-149,844	-295,170	49.2
-114,147	-126,221	9.6
-5,068	-2,879	-76
-74,721	-64,719	-15.5
-26,763	517	-5,276.6
701	771	-9.1
1,898	749	153.4
1,375	5,312	-74.1
-1,194	-4,615	74.1
1,717	52	3,201.9
-79	-1,244	93.6
-24,761	18,182	-236.2
-1,536	-13,166	88.3

Result of the financial year from continuing operations		
Result of the financial year from discontinued operations, net of tax		
Profit for the year		
Attributable to		
Owners of the parent		
Non-controlling interests		

(*) Figures restated in accordance with the spin-off of the Aerospace business, the result of which is presented under the heading "Profit for the year resulting from discontinued activities, net of tax" of the consolidated profit and loss account for both years.

		Thousand euros
2019	2018 (*)	%
-26,297	5,016	-624.3
4,664	5,334	-12.6
-21,633	10,350	-309
-21,158	10,095	-309.6
-475	255	-286.3

Consolidated cash flow statements of the SENER Ingeniería y Sistemas, S.A. at December 31, 2019 and 2018

Re	esult of the financial year before taxe
fre	om continuing operations
	esult of the financial year before taxe
fre	om discontinued operations
Adju	ustments
	Depreciation and impairment for PPE and other intangible asse
	Variation in provision for receivables impairment
	Change in other provisions
	Results on equity-accounted investees
	Other income and expenses
	Profit((loss) on fixed assets disposal
	Financial expenses
	Financial income
Cha	inges in working capital
	Inventories
	Trade and other receivables
	Other assets
	Trade and other payables
Tax	es paid
Into	erests paid

2019	2018	%
 26,802	-31,277	185.7
-24,761	18,182	-236.2
6,137	7,018	-12.6
32,846	5,918	455
5,381	3,427	57
564	2,177	-74.1
26,763	-517	5,276.6
79	1,244	-93.6
240	207	15.9
0	-78	100
1,194	4,905	-75.7
-1,375	-5,447	74.8
15,301	-58,054	126.4
0	683	-100
67,082	-62,233	207.8
206	-232	188.8
-51,987	3,728	-1,494.5
-2,345	-1,316	-78.2
-376	-3,025	87.6

Consolidated cash flow statements of the SENER Ingeniería y Sistemas, S.A. at December 31, 2019 and 2018

Cash flow from investment activities

- Acquisition of property, plant, equipments and intangible assets
- Investments in associates
- Receipts from sale of property, plant, equipment and intangible asset
- Reinbursement / (grant) other non-current receivables
- Interest received

Cash flow from financing activities

- Income from borrowings
- Repayment of borrowings
- Other dividends paid

Net variation in cash and cash equivalents

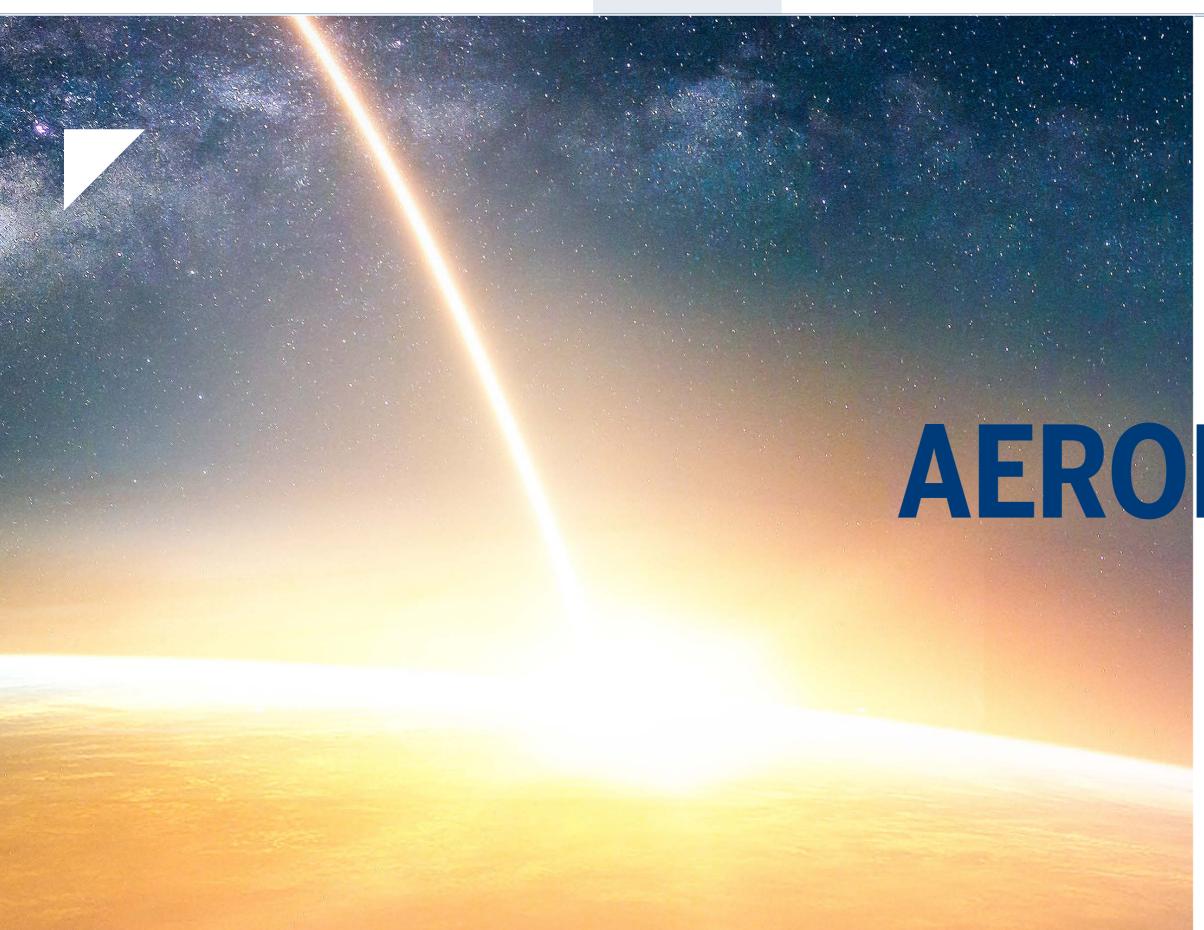
Spin-off

Cash and cash equivalents at beginning of the year

Cash and cash equivalents at end of the year

	2019	2018	%
	-1,012	-7,802	87
	-1,725	-1,885	8.5
	-130	-11,450	98.9
ts	0	248	-100
	-532	-162	-228.4
	1,375	5,447	-74.8
	-2,493	-19,709	87.4
	748	1,094	-31.6
	-3,189	-20,803	84.7
	-52	0	-
	23,297	-58,788	139.6
	-22,914	0	-
	178,921	237,709	-24.7
	179,304	178,921	0.2





AERO ESPACIAL

MANAGING DIRECTOR'S LETTER

SENER AEROESPACIAL MANAGING DIRECTOR'S LETTER



José Julián Echevarría Aguirre, Managing Director of SENER Aeroespacial.

One highly relevant event in 2019 was the incorporation of SENER Aeroespacial as a company. Although the Aerospace business had previously formed part of SENER Engineering, last year it broke away from the latter to become a new company in its own right. This fulfilled the transformation objective conceived in 2018 with the takeover of the Tryo Group. Moreover, 2019 witnessed the beginning of the integration and organization of all the capabilities and markets which, it should be said. are very complementary, and now comprise SENER Aeroespacial:

Space (institutional and commercial), Defense, Science (including Healthcare), Broadcast and Air-traffic control.

2019 WAS THE **INCORPORATION OF** SENER AEROESPACIAL AS A COMPANY

The vision underpinning this transformation consists of developing SENER Aeroespacial as a company with an industrial vocation, that is becoming increasingly product-oriented, with extensive and proven multidisciplinary engineering capabilities.

These two major corporate and structural challenges are complemented by the excellent and intense work performed in the preparation and presentation of commercial offerings. These offerings, comprised within the Space programs, include Copernicus, Galileo and new telecommunication satellites. In Defense, the challenge has been to lay the foundations for significant growth, in light of opportunities on the domestic front. such as Santiago II, or other international openings, such as our participation in the NGWS (Next Generation Weapon Systems) Remote



Carriers Pillar, which began to take shape in the first few months of the year. In order to provide the Defense area with a personality of its own and boost its expansion, Rafael Orbe joined SENER Aeroespacial at the beginning of 2020.

Despite the delays in contracting in 2019, SENER Aeroespacial's performance was satisfactory, with ordinary revenue totaling 99.821 million Euros, with 83% corresponding to exports, and profits of 13.721 million Euros. Investments in R&D totaled 11.1 million Euros, and at yearend, SENER Aeroespacial employed a workforce of 623 across its offices in Madrid, Bilbao, Barcelona and Poland.

SENER Aeroespacial will continue to monitor the rapid evolution of technologies from different areas very closely.

DESPITE THE DELAYS IN CONTRACTING IN 2019, SENER AEROESPACIAL'S PERFORMANCE WAS SATISFACTORY No company can conceivably cover all areas, meaning that specialization is of the essence, which is why we will maintain an open and very close attitude to universities, institutes and research centers. We will stay focused on the role that Europe continues to play in defense, where we restate our commitment to provide the Ministry of Defense of Spain with all our capabilities and assets to support the domestic industry through alliances, industrial cooperation and the development of an increasingly larger product portfolio.

In Space, we will continue to bolster all our activity to ensure that the outstanding growth of recent years does not flag, without losing sight of the expected take-off in the telecommunications satellites market.

SENER's multidisciplinary and excellence-driven culture pushes it towards a constant evolution in which innovation, involvement in highly-complex and value-added programs and products, and leveraging the stellar talent of our human assets are essential if we are to grow, be reliable and compete profitably.

The future will bring exciting challenges worthy of our technical potential, and in which, once again, our professionals will be the driving force.



José Julián Echevarría Aguirre Managing Director of SENER Aeroespacial



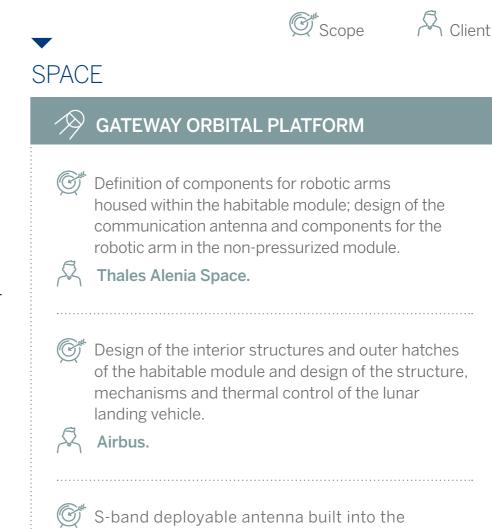
2.1 | SENER AEROESPACIAL

2019 was the year of the formal incorporation of SENER Aeroespacial as a new company within the SENER Group. After a sound financial year, in which significant efforts have been made to guarantee the profitability and competitiveness of projects and to position the company in the market, the year-end shows good results in all areas of work. The objective focuses on continuing to make progress towards a more industrial model, with a guarantee of great engineering capacity for the company, progressively developing products and evaluating new investments and markets.

The projects in 2019 were numerous and significant.

Artist's impression of the Gateway orbital platform ©NASA.







ascent module. European Space Agency (ESA).



SPACE

ATHENA MISSION

Supply of 24 heat control

(SSL) satellite.

🕺 NASA.

blinds to clad the surface

of the Space Systems Loral

- PSYCHE MISSION

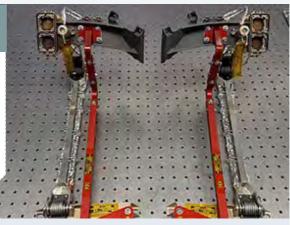
© Design, manufacturing and testing of the hold down and release actuator (HDRA).

Q ESA.

EXOMARS MISSION

© Delivery to the client of the flight model of the umbilical release mechanism.

Q Airbus Defence & Space.



Flight model of the "umbilical cord" for the ExoMars mission.

->> ELECTRA SATELLITE

© Design and production of mechanical ground support equipment (MGSE).

R OHB.



Artist's impression of the first European commercial satellite with electrical propulsion, Electra ©ESA

SECOND-GENERATION MeTop C LNA amplifiers and X-band © Delivery of engineering SSPAs for DRA Antenna. qualification models for the back-end receivers of the Ice \mathcal{X} Airbus for Hisdesat. Cloud Imager instrument. Q ESA.

JUICE MISSION $\overline{\mathcal{A}}$

Filter wheel and control electronics for the JANUS Instrument.

Q Astrophysics Institute of Granada.

EUCLID SATELLITE $\overline{\mathcal{A}}$

Delivery of the flight C) model of the antenna deployment and pointing mechanism (ADPM).

R Thales Alenia Space/ESA.



DEFENSE

SCALABLE AND **CERTIFIABLE POD**



Design, qualification and certification of a scalable. manufacturable and certifiable pod.



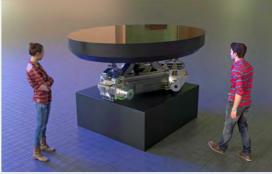
General Atomics.

SCIENCE

EXTREMELY LARGE TELESCOPE (ELT)



and back-up system. **Austral European** Observatory.



Artist's impression of the M5 mirror of the European Large Telescope (ELT).



3.1 | **SENER** AEROESPACIAL

Development of O/V frequency band RF (radiofrequency) filters for the next generation of commercial satellites that will use these new frequency bands, with the aim of analyzing and measuring their behavior and proposing more compact and less complex solutions.

Development of a Ka band solid-state power amplifier (SSPA) for active antennas.

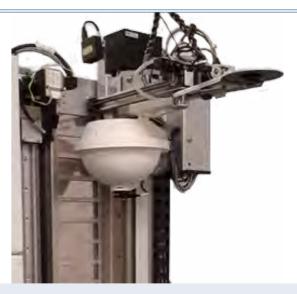
Device aimed at the aerospace market for telecommunications applications and a key element in new satellite architectures. It allows flexibility in orbit, both in the pointing of the antenna and in the use of the spectrum to increase its efficiency or capacity.



CQ band RF filters.

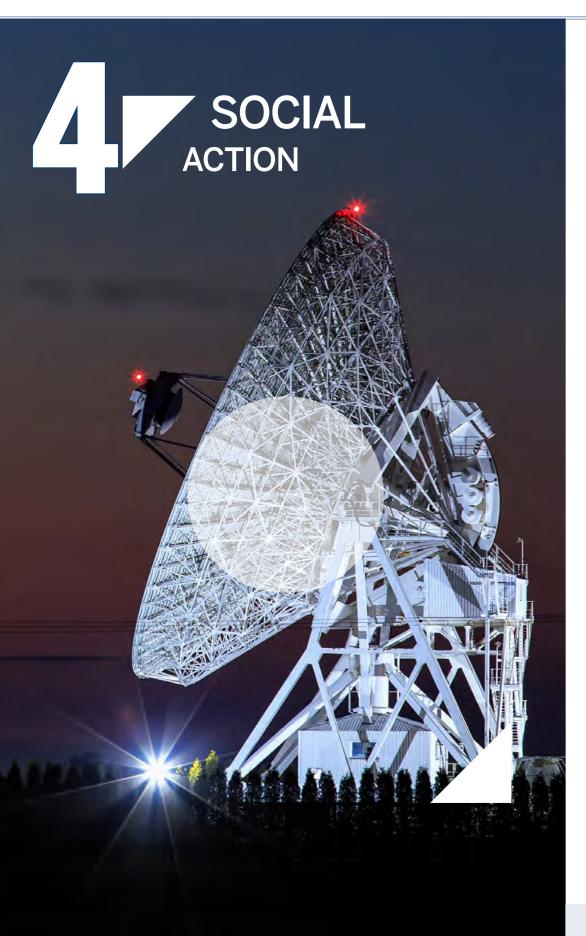
- HAZITEK Strategic MADE **project** for the research into and development of new materials and manufacturing routes (additive) for creating a new generation of electromechanical devices: electrical actuators for space applications.
- Development of advanced Petri dish incubation and

inspection equipment for the detection and identification of pathogens in less time than with current equipment, and with a direct impact on the reduction of the mortality rate of infectious diseases.



Smart culture.

In the framework of the European Horizon 2020 program, conclusion of the SIROM project for the development of the standard module for coupling structures in space, that enables mechanical, electrical, communications and thermal interconnections.



4.1 | RELATIONS WITH UNIVERSITIES AND RESEARCH CENTERS

Partnership with the Energy, Environmental and Technological Research Center (CIEMAT) in the **ACTECA** Accelerators and Associated Technologies for Large Scientific Facilities) project for the development of a highpowered RF summing cavity, with 160 inputs for particle acceleration applications, with a more direct application DONES/IFMIF (National Fusion Laboratory) projects. Participation in the **AMFORASS** program for the design and additive manufacturing of selective frequency and polarization surfaces for space applications. Project in partnership with the European Space Agency (ESA), the Autonomous University of Madrid (UAM) and the **CATEC** Technological Center.



Intelligent coating for space satellites developed by SENER Aeroespacial in partnership with IK4-TEKNIKER.

Development of a filter wheel and electronics for the **JANUS** and **GALA** instruments for the **JUICE** mission, in partnership with the Astrophysics Institute of Andalusia.



SENER AEROESPACIAL CONSOLIDATED ANNUAL FINANCIAL STATEMENTS

Consolidated balance sheets of the SENER Aeroespacial, S.A. at December 31, 2019 and 2018

Assets

Non current assets

- Property, plant and equipment
- Goodwill
- Other intangible assets
- Investment accounted for using the equity method
- Deferred tax assets
- Other accounts receivable

Current assets

- Inventories
- Trade and other receivables
- Short term loans to related parties
- Other current assets
- Cash and other cash equivalents

Total assets

(*) Figures not audited

2019	2018 (*)	%
79,578	82,681	-3.8
10,571	11,763	-10.1
31,863	31,863	0
14,524	14,981	-3.1
1,335	1,882	-29.1
21,222	22,132	-4.1
63	60	5
83,326	85,333	-2.4
9,609	9,071	5.9
45,524	54,232	-16.1
181	184	-1.6
461	297	55.2
27,551	21,549	27.9
162,904	168,014	-3

Consolidated balance sheets of the SENER Aeroespacial, S.A. at December 31, 2019 and 2018

Net equity and liabilities

Net equity

Share capital

Share premium

Legal reserve

Accumulated translation differences

Hedging reserve

Retained earnings

Non current liabilities

Borrowings

Deferred income tax liabilities

Current liabilities

Borrowings

Other current liabilities (derivatives)

Debts with group and associated companies

Trade and other payables

Provisions for liabilities and charges

Short-term accruals

Total net equity and liabilities

(*) Figures not audited

RESULTS 2019

2019	2018 (*)	%
97.143	91.631	6
97.143	91.631	6
17.242	17.242	0
23.049	23.049	0
4.310	4.310	0
260	240	8,3
-3	-3	0
52.285	46.793	11,7
5.557	9.771	-43,1
3.551	7.402	-52
2.006	2.369	-15,3
60.204	66.612	-9,6
19.483	18.364	6,1
3	3	0
2.694	117	2.202,6
36.945	47.685	-22,5
501	388	29,1
578	55	950,9
162.904	168.014	-3

Consolidated profit and loss accounts of the SENER Aeroespacial, S.A. at December 31, 2019 and 2018

Operating profit

Revenue

Other operating income

Changes in inventories of finished products and work in progress

Work carried out by the Group on its fixed assets

Raw materials and other consumables

Employee benefit expense

Depreciation and impairment

Other operating expenses

Other net gains/(losses)

Financial income/(expense)

Financial income

Financial expenses

Net exchange differences

Share in profit/(loss) of equity-acccounted investees

Profit before taxes

Corporate income tax

Result of the financial year

from continuing operations

Result of the financial year

from discontinued operations, net of taxs

Profit for the year

(*) Figures not audited

RESULTS 2019

2019	2018 (*)	%
12,481	8.132	53.5
99,281	84,877	17
1,215	143	749.7
367	-712	151.5
214	266	-19.5
-40,414	-32,071	-26
-36,655	-32,410	-13.1
-3,199	-1,755	-82.3
-8,460	-10,172	16.8
132	-34	488.2
-578	-583	0.9
47	162	-71
-615	-741	17
-10	-4	-150
-501	249	-301.2
11,402	7,798	46.2
-3,169	-1,714	-84.9
8,233	6,084	35.3
5,494	10,886	-49.5
13,727	16,970	-19.1

Consolidated cash flow statements of the SENER Aeroespacial, S.A. at December 31, 2019 and 2018

Cash flow from operation activities Result of the financial year before taxe from continuing operations Result of the financial year before taxe from discontinued operationss **Adjustments** Depreciation and impairment for PPE and other intangible assets Variation in provision for receivables impairment Change in other provisions Results of the sale of discontinued activities Results on equity-accounted investees Profit (loss) on fixed assets disposal Financial expenses Financial income Changes in working capital Inventories Trade and other receivables Other assets Trade and other payables **Taxes paid**

Interests paid

(*) Figures not audited

RESULTS 2019

2019	2018 (*)	%
10,396	2,127	388.8
11,402	7,798	46.2
5,494	10,886	-49.5
-826	-8,478	90.3
3,199	1,755	82.3
244	219	11.4
146	88	65.9
-5,494	-10,886	49.5
501	-249	301.2
0	12	-100
625	745	-16.1
-47	-162	71
-5,075	-7,620	33.4
-538	109	-593.6
5,730	-15,541	136.9
-161	0	-
-10,106	7,812	-229.4
-239	0	-
-360	-459	21.6

Consolidated cash flow statements of the SENER Aeroespacial, S.A. at December 31, 2019 and 2018

Cash flow from investment activities

Acquisition	of property	, plant, equipmer	its and intangible assets	S
		, la ran ra, la al an la ritari	0.000	_

Sale of subsidiary company, net of cash drawn

Receipts from sale of property, plant, equipment and intangible asset

Acquisition of subsidiary company, net of cash drawn

Reinbursement / (grant) other non-current receivables

Dividend received

Other flows of investment activities

Interest received

Cash flow from financing activities

Income from borrowings

Repayment of borrowings

Dividends paid to owners of the parent

Net variation in cash and cash equivalents

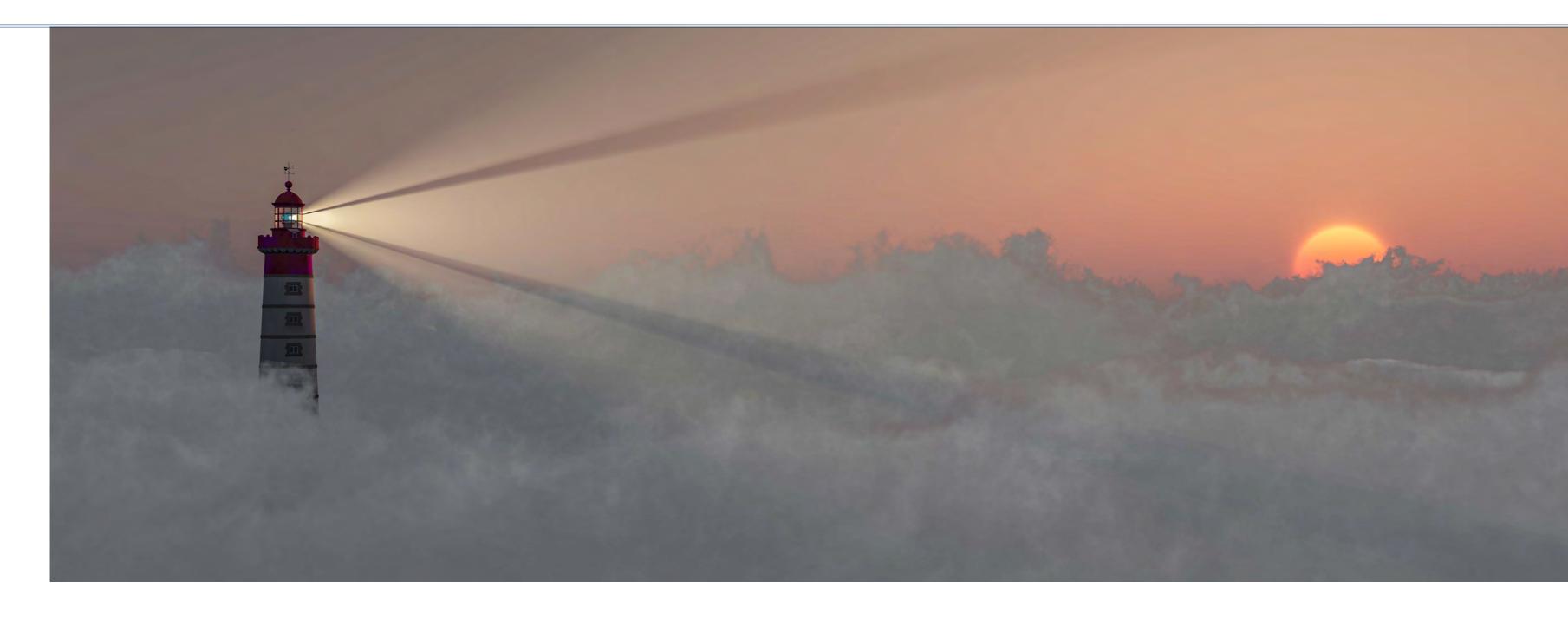
Cash and cash equivalents at beginning of the year

Cash and cash equivalents at end of the year

(*) Figures not audited

RESULTS 2019

	2019	2018 (*)	%
	6,829	-36,597	118.7
	-1,498	-1,400	-7
	8,228	13,544	-39.2
ts	0	124	-100
	0	-48,967	100
	-3	0	-
	55	0	-
	0	-60	100
	47	162	-71
	-11,223	-285,539	96.1
	7,974	172	4.536
	-10,971	-7,611	-44.1
	-8,226	-278,100	97
	6,002	-320,009	101.9
	21,549	341,558	-93.7
	27,551	21,549	27.9





www.group.sener