

PRESS RELEASE

SENER will develop the devices for assembly of the Biomass satellite structure

Madrid (Spain), May 9, 2018 - The engineering and technology group [SENER](#) will design, manufacture and test devices for assembly of the Biomass satellite. This is a mission from the European Space Agency (ESA) under the Earth Explorer program, which objective is to find answers to the most important scientific questions about the environment of our planet.

In Biomass, SENER will develop all the devices for assembly of the satellite structure, including vertical transport equipment, assembly and disassembly of satellite panels, assembly and disassembly of the Synthetic Aperture Radar (SAR), which is the main research instrument, and the container for transporting the radar. The devices for assembly of the radar constitute the main challenge of the contract, because it contains a large antenna with a diameter of 12 meters. The whole satellite will weigh 1,170 kg and have a dimension of 10 x 12 x 20 m.

Assembly equipment is one of SENER's specialties. Recently, the company delivered [thirteen MGSE](#) devices (Mechanical Ground Support Equipment) for Euclid, a satellite weighing 2.3 tons.

The Biomass mission is aimed at finding data on changes in forest biomass and on the scale of deforestation that remain inaccurate. Reliable data will enable to better understand carbon cycle in the environment and global warming processes. This data will also form basis for UN initiatives intended to reduce carbon emissions resulting from deforestation in developing countries. Biomass will enable creation of 3D forest maps in 200 m resolution (1 pixel = 200 m). Start of the mission is planned for 2021 and it will last at least 5 years.

SENER has [more than 50 years](#) of activity and is a key player. To date, SENER has successfully handed more than 275 systems and equipment for satellites and space vehicles for space agencies in the US (NASA), Europe (ESA), Japan (JAXA) and Russia (Roscosmos). SENER is one of the leading companies in the European Space Agency's science programs through its engineering contributions; SENER has taken part in more than half of these missions.

About SENER

SENER is a private engineering and technology business group founded in 1956. Its aim is to offer its clients the most advanced technological solutions and to achieve international recognition based on its independence and commitment to innovation and quality. SENER has almost 2,500 professionals across its centres in Algeria, Argentina, Brazil, South Korea, Chile, China, Colombia, the United Arab Emirates, Spain, the United States, Morocco, Mexico, Poland, Portugal, the United Kingdom and South Africa. The group's operating revenue exceeded 910 million Euros (2016 data).

SENER brings together its own Engineering and Construction activities with industrial holdings in companies working in the field of Energy & Environment. In the field of Engineering and Construction, SENER has become a leading company worldwide in the fields of Aerospace; Infrastructure and Transport; Renewables, Power, Oil & Gas; and Marine.

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