



## PRESS RELEASE

# SENER, ACCIONA AND TSK BUILT SOLAR POWER PLANT IN SOUTH AFRICA SETS RECORD FOR ROUND-THE-CLOCK ELECTRICITY SUPPLY

## Bokpoort Concentrated Solar Power Plant delivers six days of continuous, full-load electricity - an African record

Johannesburg, June 8, 2016 - A [SENER](#), ACCIONA and TSK built Concentrated Solar Power (CSP) plant in South Africa has set a new African record for the continuous, round the clock supply of electricity. Within the first month of commercial operation, the newly-inaugurated 50 MW Bokpoort CSP plant, produced electricity for a continuous period of 161 hours, equivalent to almost six days.

CSP technology is considered an intermittent source of power which supplies electricity during daylight hours, when demand is highest. Nevertheless, Bokpoort's design enables it to continue supplying electricity long after the sun has set thanks to a molten salt energy storage facility that can accumulate 9.3 hours of electricity production, the highest power storage facility on the African continent.

The Bokpoort CSP plant in the Northern Cape Province was built by a joint venture between SENER, ACCIONA, TSK and South Africa's Crowie. They were awarded the EPC (Engineering, Procurement and Construction) project by the Saudi group ACWA Power, the plant's owner and operator.

Round the clock electricity supply from a solar power plant is a significant milestone for South Africa and for the renewable industry as a whole, as it allows CSP technology to approximate the continuous power supply of conventional technologies such as hydroelectric, thermal or gas-fired power plants.

Ramón Jiménez, CEO of ACCIONA Industrial "ACCIONA has designed and built some of the world's leading landmark projects over the past 60 years. We are proud of having state-of-the-art technology that allows us to handle any kind of turnkey project, such as Bokpoort, with the maximum guarantee of quality and efficiency. ACCIONA is also proud to be contributing its technology to the development of renewable energy in South Africa."

Siyabonga Mbanjwa, Regional Director of SENER in Southern Africa: "Today SENER is recognized for the quality and reliability of its solar thermal technological solutions. It is our pride to have been part -together with ACCIONA, TSK and Crowie- of the success of this plant and it is our intention to further contribute to the industrial and sustainable development of the country".

Nandu Bhula, CEO of Bokpoort CSP plant, added: "Globally the biggest challenge of CSP has been its ability to produce energy consistently long after sunset. The performance of this plant is a clear indication that CSP technology can be used as a base-load capacity option in the same way as conventional power plants."

In South Africa the country's daily evening peak demand is from 5 pm to 9 pm and the newly introduced CSP Peak tariff means that developers are encouraged to have thermal storage capacity.

For more information:



Bokpoort CSP has shown that due to the good design of the plant and the solar radiation available at the site, its 9.3 hours of thermal storage can easily be extended to allow round-the-clock continuous operations.

SENER has three solar thermal plants in South Africa. In these three projects, [SENER supplies key technology such as the SENERTrough® parabolic trough collectors and the molten salt storage system](#), capable of operating in the absence of irradiation and, therefore, of delivering dispatchable electricity to the grid. Present in one of every two CSP plants built around the world, SENER is today recognized as a leading company in solar thermal energy worldwide.

For its part, ACCIONA has built 11 CSP plants around the world totalling 628 MW in capacity. Bokpoort is the fourth CSP plant the Company builds outside Spain. Its construction underscores ACCIONA's commitment to the development of renewable energy worldwide.

### About SENER

[With 60 years of history](#), SENER is a private engineering and technology group founded in 1956. It seeks to offer its clients the most advanced technological solutions and enjoys international recognition, thanks to its independence and its commitment to innovation and quality. SENER has a workforce of nearly 6,000 professionals at its facilities in four continents and the group's turnover exceeds €1.305 billion (2014 data). In total, SENER has been involved in 29 solar plants, most of them turnkey projects, in Spain, the USA, South Africa, and Morocco, which together represent an installed capacity of more than 2,000 MWe and CO2 savings equivalent to one million tons annually. This confirms the company's position as a leader in the solar thermal energy market, both in the number of projects in its portfolio and because of the technological solutions it has developed. Some of its projects are veritable technological milestones, such as Gemasolar and Valle 1 and Valle 2, in Spain, and the NOORo complex in Morocco, where SENER also forms parts of the building consortium for NOORo I, NOORo II and NOORo III. [www.engineeringandconstruction.sener](http://www.engineeringandconstruction.sener)

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### About ACCIONA

ACCIONA is a global leader in sustainable solutions for infrastructure and renewable energy projects. Its expertise covers the entire value chain from research and development and design to the construction, operation and maintenance of projects. The Company is present in more than 30 countries, where its business activities seek to contribute to the economic and social progress of the communities in which it operates. ACCIONA aims to lead the transition to a low-carbon economy by investing in innovation and adopting processes and quality standards that optimise the use of resources and protect the environment in all its business activities. The Company posted revenues of €6.5 billion in 2015. [www.acciona.com](http://www.acciona.com)

### About TSK

TSK is a global company that specializes in the execution of turnkey projects and the supply of technological solutions for different sectors in industry, providing its own technology, engineering and the capability to manage complex projects. Currently present in several industry sectors such as electrical infrastructures, industrial plants, energy generating power plants (conventional and renewable), water treatment plants or installations for handling and storage of raw materials. [www.grupotsk.com](http://www.grupotsk.com)

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