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■ Dewa-SAT 1 is a 3U nanosatellite launched as part of Dewa's Space-D programme to improve its operations.

Dewa-SAT 1 sends first signals from space

The nanosatellite is orbiting Earth at an altitude of between 525 and 530km

DUBAI
Gulf News Report

Dewa-SAT 1, the nanosatellite launched by Dubai Electricity and Water Authority (Dewa) on Thursday, has sent its first signals from space.

Travelling at 7.5 kilometres per second and taking about 90 minutes to orbit the Earth, Dewa-SAT 1 is settled in a low orbit at an altitude of between 525 and 530 kilometres away from Earth.

Dewa-SAT 1 is a 3U nanosatellite launched as part of Dewa's Space-D programme to improve its operations, maintenance, and planning of electricity and water networks by using nanosatellites and taking advantage of the technologies of the Fourth Industrial Revolution, including the internet of Things (IoT), Artificial Intelligence (AI), blockchain, and information exchange through space communications, Earth observation and remote-sensing technologies.

Dewa, in collaboration with NanoAvionics, launched Dewa-SAT 1 nanosatellite on a SpaceX Falcon 9 rocket from Cape Canaveral Space Launch Complex (SLC-40) in Florida, USA. DEWA is the world's first utility to use nanosatellites to improve the maintenance and planning of electricity and water networks.

'Increased efficiency'

Saeed Mohammad Al Tayer, MD and CEO of Dewa, said: "Through the Space-D programme, we intend nanosatellite technology to complement the terrestrial IoT communication network to increase the efficiency and effectiveness of Dewa's operations and support the digitisation of our electricity



■ Dewa launched Dewa-SAT 1 nanosatellite on a SpaceX Falcon 9 rocket.

It also reduces costs, improves asset use, enables knowledge and experience transfer, and educates Emiratis at Dewa."

Saeed Mohammad Al Tayer | Managing Director and CEO of Dewa

and water networks. It (nanosatellite technology) will increase the efficiency and effectiveness of our planning, operations, and preventive maintenance for our production, transmission, and distribution divisions, as well as our smart grids and electric vehicle charging stations. It also reduces costs, improves asset use, enables knowledge and experience transfer, and educates Emiratis at Dewa," he explained.

Al Tayer added: "By the end of 2022, we plan to launch a 6U nanosatellite with customised high-resolution image sensing technology to be specifically designed for DEWA to communicate with its IoT terminals. The project includes applications to collect and analyse data. multi-spectrum, high-resolution thermal imaging devices such as those used on board spacecraft."