Press Release

Delegation from DEWA visits NanoAvionics in Lithuania to conduct technical tests for DEWA SAT-2, which will be launched later this year

Dubai, UAE, 20 February 2023: A delegation from Dubai Electricity and Water Authority (DEWA)'s Research and Development Centre visited NanoAvionics in Lithuania to follow up on the latest developments in 'DEWA SAT-2', a 6U nanosatellite, which DEWA plans to launch this year, as part of DEWA's Space Programme (Space-D). During the visit, the team conducted comprehensive technical tests of the nanosatellite's hardware and software. This included a high-resolution camera (4.7 metres) that will be used for Earth observation missions using MultiScape100 CIS technology, which provides continuous line-scan imaging in 7 spectral bands from a 500km orbit. Infrared equipment to measure greenhouse gases was also tested.

"Space-D, which was launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, in January 2021, aims to make nanosatellites a complementary technology to the ground IoT communications network. This will support the digitisation of the power and water networks, and enhance the planning, operations, and preventative maintenance for the generation, distribution, and transmission divisions as well as the smart grids and the electric vehicle charging stations. This will also cut costs, improve investment in DEWA's assets, share knowledge and experience, train DEWA's Emirati staff, and develop use-cases for advancing the utility sector worldwide. We are preparing to launch a 6U nanosatellite later this year, after the success of the DEWA-SAT1 satellite, which was launched in January 2022," said **HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.**

Waleed Bin Salman, Executive Vice President of Business Development and Excellence at DEWA, said that the R&D Centre supports DEWA's efforts to use the Fourth Industrial Revolution technologies in the energy sector. He noted that the use of satellite network communications, the Internet of Things (IoT) and Artificial Intelligence (AI) contribute to improving the efficiency of the photovoltaic solar panels at the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world, according to the independent power producer (IPP) model.

DEWA launched the DEWA-SAT 1 nanosatellite in January 2022, in collaboration with NanoAvionics, on a SpaceX Falcon 9 rocket from Cape Canaveral Space Launch Complex in Florida, USA. DEWA is the world's first utility to use nanosatellites to improve the operations, maintenance, and planning of electricity and water networks.

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For more information, please contact:

Khuloud Al Ali / Ribal Dayekh
Dubai Electricity and Water Authority

Afaf Abaza / Mohammed Meshal
Hattlan Media

+971 56 3974965 / +971 50 9099819
Media@dewa.gov.ae / Ribal.Dayekh@dewa.gov.ae

+971 58 5680024 / +971 50 7006846
afaf@hattlan.com / mohammed@hattlan.com

For more information, please visit DEWA's website **www.dewa.gov.ae**

DEWA's social media accounts:

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