



12 December 2018

ASX CODE: 14D

MOBILISATION OF GAS-TESS TO SA WATER COMMENCES

1414 Degrees Limited ('1414 Degrees' or the 'Company') (ASX:14D) is pleased to advise that it has commenced mobilisation of its biogas Thermal Energy Storage System, the GAS-TESS, to SA Water's Glenelg Wastewater Treatment Plant.

This is the first commercial pilot of a molten silicon energy storage system developed by the Company, and it is now one step closer to commissioning, with large components of the technology en route to site.

The GAS-TESS is world-leading technology that stores energy generated from biogas. The GAS-TESS at SA Water uses biogas created during wastewater treatment to hold energy in molten silicon and return it to the site on demand as both electrical and heat energy. The heat energy is utilised in the plant's digestors to create more biogas and the cycle continues.

The project is co-funded by 1414 Degrees and the South Australian Government's Renewable Technology Fund, while the partnership with SA Water provides an environment to pilot the system's ability to integrate energy storage and the provision of heat and power for use in industrial operations.

Dr Kevin Moriarty, Executive Chairman of 1414 Degrees, said mobilising to site was an important step in demonstrating the technology's ability.

"We expect to commission the GAS-TESS in March 2019 and provide immediate returns for SA Water, while at the same time building a foundation for the wider application of the 1414 Degrees technology at similar sites across the globe," said Dr Moriarty.

"Our timing could not be better, with an increasing focus on the critical importance of renewable energy to ensuring a sustainable future for Australia."

"SA Water is leading the way for corporate Australia by supporting innovative renewable technology to reduce the hip pocket impact of energy prices for its customers, while lessening our country's carbon footprint."

In 2017, in response to a request from SA Water for technology that would allow a biogas input to store energy, the Company's engineering team commenced development of the GAS-TESS system. This system is now nearing commercial trials at the Glenelg Wastewater Treatment Plant.

For personal use only

SA Water Chief Executive Roch Cheroux said it was exciting that local innovation was being utilised in the essential service's push for a zero cost energy future.

"Embracing innovative, world-leading technology and ways of thinking, is essential to reducing our electricity costs and maintaining low and stable pricing for our customers," said Mr Cheroux.

"As well as realising the benefits of increased energy self-sufficiency, we can support South Australian innovation and, hopefully, lead a global charge to reduce the costs and environmental impacts of energy-intensive wastewater treatment operations."

In addition to preparing the GAS-TESS for implementation at Glenelg, 1414 Degrees has been commissioning its 10MWh TESS-IND and assessing sites for the company's 200MWh TESS-GRID product.

FOR FURTHER INFORMATION PLEASE CONTACT:

Richard Willson, Company Secretary
+61 411 411 485

For personal use only