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ASX:14D

## GAS-TESS upgrade plans

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- GAS-TESS Mk I pilot is successfully validating performance metrics
- GAS-TESS Mk II design advancing
- Higher energy density upgrade plan for increased revenue from time shifting

1414 Degrees' (ASX:14D) GAS-TESS at SA Water's Glenelg Wastewater Treatment Plant (WWTP) is continuing operations after the repair to its external heat exchanger. As recently advised, 1414 Degrees is planning upgrades to the current GAS-TESS as well as designing an advanced commercial model, and this update provides further detail.

The Glenelg WWTP test facility was installed in partnership with SA Water to accelerate commercialisation by gaining confidence in the successful operation of a small-scale integrated system, specifically the Energy Recovery System and the balance-of-plant components. This has been achieved and attention is now on further options to improve performance.

As announced at installation, the silicon storage of the GAS-TESS Mk I was configured primarily to operate with sensible heat during operational testing, so the time shifting capability of the installed storage is limited by its lower latent heat component. As reported through the past year, we have been advancing robust and scalable silicon latent heat solutions for all TESS models including the combustion atmosphere up to 1500°C in a biogas burning GAS-TESS.

Our engineering team is now undertaking final testing of the new latent heat solution that will be installed in the GAS-TESS Mk I pending the business case evaluation and feedback from SA Water. The upgraded storage is expected to be procured in March, for delivery in the second quarter. In the meantime, the already completed co-firing module will be performance tested to demonstrate its benefits for the SA Water business case.

These initiatives are expected to further increase the efficiency and revenue earning potential of our proprietary GAS-TESS from time shifting i.e. using the energy dense silicon storage to generate electricity when prices are higher.

### FOR FURTHER INFORMATION PLEASE CONTACT:

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### ABOUT 1414 DEGREES LIMITED

1414 Degrees believes in a sustainable energy future, where energy is available to all, at all times. Its clean energy storage is set to reduce energy costs by increasing the efficiency of renewable generation and stabilising grid supply. The 1414 Degrees thermal energy storage system (TESS) is unlike any other energy storage system in the world.

1414 Degrees' technology stores energy generated from electricity or gas and supplies both heat and electricity in the proportions required by consumers. It is unique in its combination of low cost, flexibility of location, scalability, and sustainability. Following the successful development of its electrically charged TESS demonstrator, and commissioning of its pilot GAS-TESS at SA Water's Wastewater Treatment Plant, the Company is now in an early stage of product development and commercialisation.

For more information please visit [www.1414degrees.com.au](http://www.1414degrees.com.au)