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Australian Securities Exchange Announcement

## **Delegations show strong interest in Glycell™ demonstration in Holland**

- Phase 2 Glycell™ Integrated Demonstration Study successfully completed;
- C6 sugar samples and lignin samples produced for potential off-take customers;
- Malaysian delegations attend Glycell™ demonstration in Holland

Leaf Resources Limited (ASX: LER) is pleased to report that phase 2 of the Integrated Demonstration Study (IDS) at Bioprocess Pilot Facility B.V. (BPF) in Delft, Holland has been successfully completed with samples of C6 industrial sugars and lignin produced.

The IDS is a critical component of the overall validation program for Leaf's proprietary Glycell™ technology, and an essential input to both the design and financing requirements for the Company's proposed biorefinery project in Malaysia.

The first week of phase 2 consisted of several low volume test runs to evaluate new filtration equipment and integrate the sub-system into the BPF pilot plant. The linkage between the initial digestion phase (breaking down of plant biomass) and the filtration phase was successfully trialled.

During the balance of phase 2 testing, there was a longer continuous run of both the digestion and filtration processes, as well as the hydrolysis stage of the integrated system. From this run, the Company has produced C6 sugar and lignin samples for testing by potential downstream off-take partners.

As expected, there were significant learnings achieved from this work, and results indicate that the optimization achieved will benefit the commercial installation. This work will be continued in phase 3 of the Integrated Demonstration Study commencing in October of 2018.

During phase 3, chromatography separation will be fully integrated in order that all three phases of the Glycell™ process are linked and validated. The complete system, with all three core process steps integrated, will run for approximately 1,000 hours.

The data generated by these studies will support the FEL 3 (Front End Loading) engineering study which will then feed into the final engineered design for the Segamat site (in the state of Johor, Malaysia). Subsequently, an institutional grade bankable feasibility study will be completed to support final due diligence and project financing with the renewable investment community.

## Delegations show strong interest in Glycell™

A high-level, public-private partnership delegation of 10 people from Malaysia inspected the integrated demonstration of the Glycell™ process in Holland. Delegates included Federal Government officials; a large commercial party interested in off-take of the biorefinery intermediate fermentable sugars; a BioHub investment group potentially interested in shared infrastructure, site utilities and logistics; and a team from Biovision and Greenery Sdn Bhd (B&G). B&G operates on a site adjacent to the proposed Leaf biorefinery site in Segamat and is in discussions with Leaf on the possible supply of biomass and utilities.

The Managing Director of Leaf Malaysia, Jason Jones (representing Leaf's JV partner, Claeris), hosted the visit.

Mr Jones said the delegation, which also met with complementary Dutch oil palm waste-to-value technology companies, as well as the BioPort of Rotterdam, indicated it was pleased with the outcomes from the week. He commented: "Our delegates, representing the Segamat BioHub consortium, now understand what 'good' looks like for a BioHub and have confidence in the enabling capability of the Glycell™ technology."

Leaf's Managing Director, Ken Richards, said: "The Company continues to make strong progress towards generating the necessary data to secure support and financial approval for the Malaysian biorefinery project and – as the various studies are completed – interest in the project continues to build."

## ENDS

### About Leaf Resources Ltd (ASX: LER)

Leaf Resources is one of the world's leading companies in converting plant biomass into industrial sugars. Our proprietary process for converting biomass-to-functional industrial sugars enable a myriad of downstream technologies for the production of renewable chemicals that will substitute petrochemicals used in manufacturing today. With our project development and continued technical innovation we are building a robust global business centered on renewable carbon containing products to deliver environmental and economic benefits to our shareholders and our planet. More on [www.leafresources.com.au](http://www.leafresources.com.au)

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