

Phase 3 IDS design study continues positive progress

- 170 hours continuous run-time completed in January
- Equipment and process continues to be optimised
- Technical delegations from project partners and interested third parties

Leaf Resources Limited (ASX: LER) is pleased to report positive progress on the Company's latest Integrated Demonstration Study (IDS) in Delft, The Netherlands during the month of January.

Leaf has partnered with Bioprocess Pilot Facility (BPF) in Delft to undertake a series of integrated demonstration studies that incorporate the necessary engineering and hardware components in pilot scale testing. This testing is a critical component of the overall validation program for Leaf's proprietary GlycellTM technology, and an essential input to both the design and financing requirements for the Company's proposed biorefinery project in Malaysia.

The IDS Phase 3 design study restarted in early January with performance qualification (PQ) continuing as the equipment and processes are optimised in an integrated, continuous fashion. During the month 170 run hours were performed, with fully integrated campaign runs successfully operated for extended periods.

The equipment sets with each unit operation are performing as designed and the data is being produced in a timely fashion, allowing parameter testing to be carried out in real time.

Leaf's CEO Alex Baker, who attended the IDS review commented: "We are currently on track and capturing valuable data and knowledge on the GlycellTM process that will be fed into the FEL 3 engineering program conducted by TechnipFMC. We are impressed with combined efforts of BPF and the Leaf technical team and look forward to continuing with this important validation of the process."

Over the week beginning 28 January, several technical delegations attended the BPF site including Technip FMC, Claeris, B&G Capital Resources, Offset Capital Group and New Energy Risk insurance.

As previously announced TechnipFMC is the appointed engineer for the project's Front-end Loading (FEL) 3 engineering study. During the week, a team of TechnipFMC engineers from both Lyon, France and Malaysia reviewed the IDS equipment and process with Leaf and BPF engineers as part of the FEL 3 work.

Asia-based Managing Director of Leaf Malaysia, Jason Jones (representing Leaf's JV partner, Claeris) hosted the B&G Capital Resources delegates and Offset Capital Group with a number of positive technical and commercial discussions being held.



B&G Capital Resources Bhd. is the major shareholder of Segamat Inland Port (SIP) and Biovision & Greenergy Renewables Sdn. Bhd., which operates the upstream biomass fibre facility adjacent to Leaf's proposed biorefinery site in the state of Johor. B&G Renewables has entered into a letter of intent to supply empty fruit bunch (EFB) as the key biomass input to the GlycellTM process.

Offset Capital Group (OCG) helps commercial-stage clean and renewable technology companies connect with motivated project investors, primarily focused on advantaged capital sources, across emerging global markets.

New Energy Risk (NER) specialises in technology performance insurance and has a strong track record in underwriting waste-to-product technologies. NER continued its technical review of Leaf's technology during the week.

The IDS continues through the first quarter of 2019 and Leaf will provide regular updates on its progress.



EFB staging and milling operations at BPF.





Primary pretreatment reaction in the pretreatment reactor vessel at BPF.



Solids separation with the plate and frame filter unit and associated operations integrated at BPF.





C5 sugar/glycerol separation with simulated moving bed Chromatography (SMB) unit installed at BPF.

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

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