

TECHNOLOGY INTRODUCTION, DEVELOPMENT & BUSINESS MODEL





DST Overview

Dundee Sustainable Technologies (DST) is engaged in the development and commercialization of environment-friendly technologies for the treatment of materials in the mining industry.

Invested \$45 million developing its processes

Technologies successfully demonstrated and ready for commercialization

54 patents in 18 countries



Industry Challenges

Environmental

- Cyanide
 - Jurisdictions have banned or restricted cyanide
- Arsenic
 - Industry is turning to deposits with greater concentration of arsenic
 - Few facilities currently treat high arsenic material
 - Industry requires a permanent arsenic disposal process

Metallurgical

- Gold recovery from refractory ores
- Base metals, tellurium or organic carbon in gold ores



DST Solutions

CLEV RPROCESS™

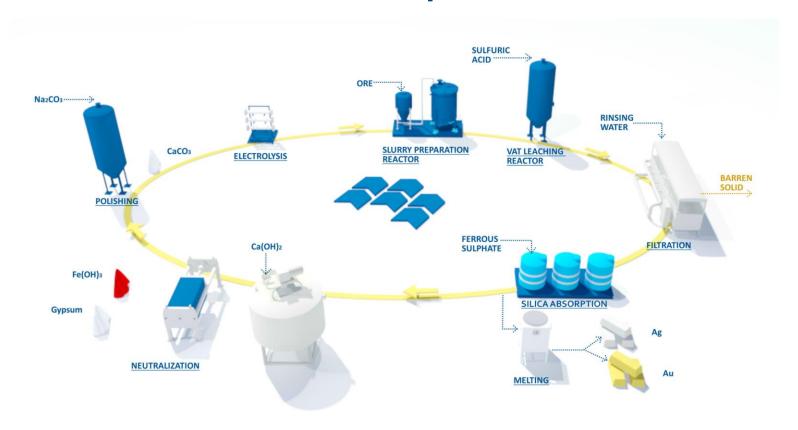
- Cyanide-free gold extraction
- No liquid effluents
- Refractory ores

GLASSLOCK PROCESS*

- Arsenic stabilisation
- Allows access to complex ores
- Permanent disposal solution



CLEVR Process - Closed Loop Circuit





ISO 14034:2016

Environmental Management —
Environmental Technology Verification (ETV)



CLEVR Process – Technology License & Acceptance



"DST Announces Licensing Agreement with Newmont Corporation"

MONTREAL, QUEBEC, December 17, 2020 – Dundee Sustainable Technologies Inc. ("**DST**" or the "**Corporation**") (CSE: DST) is pleased to announce that it has entered into a Technology Transfer Licensing Agreement (the "Agreement") with Newmont Corporation (NYSE: NEM, TSX: NGT) ("**Newmont**") for the utilization of DST's cyanide free gold extraction, known as the CLEVR Process™ ("CLEVR" or the "Technology"). "

CLEVR Process – Commercial Drivers

- Increased Gold Recovery
- Chemistry, Cyanide-free gold extraction
- Efficiency, 2-hour Reaction time

PROCESS COSTS

- 150 tpd up to 15,000 tpd ROM Plant Designs
- Competitive OPEX ~US\$10-15 per tonne
- Competitive CAPEX, Reduced Plant Footprint





DST's Industrial Plant Namibia, Africa

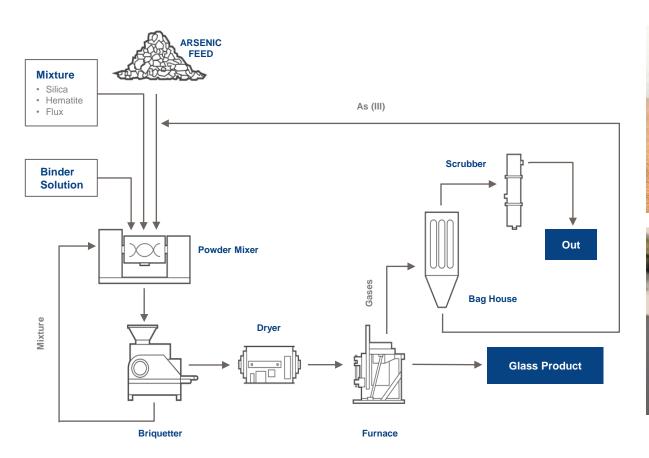
GlassLock Process™ - Arsenic Stabilization

- Stabilization by vitrification
- Intermediate compound that can sustain vitrification temperature
- Produces glass with up to 20% As
- Comply with EPA's TCLP and EN12457-1 guidelines
- Widely available reagents / equipment



DST aquarium containing arsenic glass

GlassLock™ Process – Circuit







GlassLock Process – Technology Acceptance



DST Received <u>US\$ 2,000,000</u> Moratorium Payment for GlassLock

"MONTREAL, QUEBEC, **April 15th, 2020** – Dundee Sustainable Technologies Inc. ("DST" or the "Corporation") (CSE: DST) is pleased to announce that it has entered into a commercial agreement (the "Agreement") with a gold and copper producer (the "Client") for the utilisation of its GlassLock Process™ ("GlassLock" or the "Technology"). As part of the Agreement, DST received a **US\$ 1,000,000 cash payment** in return for a one (1) year exclusivity period for the application of its GlassLock Process™ on copper smelting operations… "

"MONTREAL, QUEBEC, **March 30, 2021** – Dundee Sustainable Technologies Inc. ("DST" or the "Corporation") (CSE: DST) is pleased to announce that it has received, from a client (the "Client"), a **cash payment of US One Million Dollars (US\$1,000,000)** representing the second-year moratorium payment for the exclusive application of DST's GlassLock ProcessTM ("GlassLock" or the "Technology") on copper smelting operations..."

GlassLock Process – Commercial Drivers

- Product Stability, Quality Arsenic Glass Product
- Process Flexibility, Adapts to Feed and Operation
- Arsenic Removal, Unlocks Operations & Opportunities

PROCESS COSTS

- 1,000 tpa up to 50,000 tpa treatment Plant Designs
- Improved OPEX <US\$1,000 per tonne of As</p>
- Advantageous CAPEX & Alternative Treatment
 Flowsheet





Technology Provider

To Majors & Operators,
In Return for Licensing
Revenue

Owner Operator

Leverage Current Assets
Targeting Legacy Flue
Dusts, In Return for Tolling
Fee Revenue

Equity

Leverage Technology and Acquire **Equity Positions** in Arsenopyrite Gold Deposits







Head Office

860 - 2000 Peel Street Montreal, QC, Canada, H3A 2W5

Plant

3700 rue du Lac Noir Thetford Mines, QC, Canada, G6H 1S9

www.dundeetechnologies.com

Leadership Team



Jean-Philippe Mai President & CEO

Mr. Mai has 15 years' experience as a geologist, senior project manager and executive in coal, base metals and gold projects in Canada, Australia and South America, and has been DST's Senior Geologist since January 2013. Mr. Mai is a Professional Geologist and a member, in good standing, of l'Ordre des Géologues du Québec and holds a Bachelor of Science in Geology from the University of Quebec in Montreal.



Arved MarinCFO & Corporate Secretary

Mr. Marin is a Chartered Professional Accountant (CPA, CMA) with over 10 years' experience in the minerals industry. He has served as corporate controller of several public companies in the minerals industry with operations in Canada and Latin America and has served as interim CFO of Dia Bras Exploration during 2009. Previously, he worked for six years as a financial auditor, Assurance and Advisory Services at PricewaterhouseCoopers. He is a graduate of Concordia University.



Jean TardifChief Operating Officer

Mr. Tardif has more than 15 years' experience in the field of extractive metallurgy and has held various positions as a plant engineer and plant manager. He also participated in the scale-up and implementation of a new metallurgical process on an industrial scale. Mr. Tardif holds a Bachelor of Materials Engineering and Metallurgy from Laval University.

Advisory Board



Peter Kondos

PhD.

Dr. Kondos is an accomplished professional and holds a PhD on Pressure Leaching in Hydrometallurgical Engineering from McGill University, Montreal, Quebec. Dr. Kondos' career has been devoted in transforming organizations through innovation and delivering highly effective technology solutions within Barrick Gold, Inco (Vale), and Noranda (Glencore). The ability to adjust to working environments and work in teams, while creating long term roadmaps foster value creation in a sustainable way. He is the co-founder of YaKum Innovative Mining Consultants.



Richard Howes

P. Eng.

Mr. Howes is a Professional Engineer in the Province of Ontario and holds a Honours Bachelor of Applied Science degree in Mining Engineering from Queen's University in Kingston, Ontario. He has over 40 years' experience in the mining industry in Canada, Europe, Asia and Africa in base and precious metals, and in various capacities including Engineering and Design, Operations and Maintenance supervision, Site and Plant management, Business Unit Management and Executive Global Management. Mr. Howes was Dundee Precious Metals' General Manager and Executive Director of Chelopech Mining EAD from 2009 to 2010, Executive Vice-President and Chief Operating Officer from 2010 to 2013 and President and Chief Executive Officer from 2013 to 2020. He currently sits on the Board of Directors of Hudbay Minerals and Torex Gold Resources.