



## ABOUT US

Northstar Clean Technologies Inc. ("Northstar") (TSXV:ROOF) is a Vancouver-based **clean technology company focused on the recovery and repurposing of single-use asphalt shingles**. We recently completed a \$12.24M financing and a subsequent listing onto the TSX Venture Exchange in July 2021. We are led by a team of experienced and successful industry professionals with significant strategic, commercial, operational and capital markets experience.

## MISSION

Our mission is to be the leading shingle material recovery provider in North America, **extracting 99% of the recovered components from single-use asphalt shingles that would otherwise be sent to a landfill**. Our clean technology solution is expected to have a significant impact on the environment by reducing landfill usage, reducing the CO2 impact of asphalt, fiber and aggregate production, and contributing to the "circular economy".

## LEADERSHIP TEAM

**James Currie, P.Eng**  
Executive Chairman

**Aidan Mills, C.Eng, MBA**  
CEO

**Gord Johnson**  
President, Director

**Neil Currie**  
Director

**James Borkowski, C.Dir**  
Director

**Gregg J. Sedun, LLB**  
Director

**Sead Hamzagic, CPA, CGA**  
Chief Financial Officer

**Terry Charles**  
Chief Operating Officer

**Jim Bird, P.Eng**  
Technical Advisor

**Brian Storseth**  
Advisor

**Carson Sedun, MBA**  
Director of Capital Markets

**280 YEARS OF OPERATIONAL AND  
CAPITAL MARKETS EXPERIENCE**

## INVESTOR HIGHLIGHTS

- ✓ **Clean Technology:** Environmentally-friendly processing solution for single-use asphalt shingles.
- ✓ **Proprietary Design Process:** Proprietary design process to break down components of shingles.
- ✓ **Market Opportunity:** C\$2 billion+ North American market with limited proven processing alternatives.<sup>(1)</sup>
- ✓ **Off-Take Agreement In Place:** Off-take agreement signed with multi-national construction materials company for 100% of oil production.
- ✓ **Fully Constructed Facility:** Fully constructed Empower Facility (steady state production in Q4 2021).
- ✓ **Expansion Opportunities:** Canada and the USA.
- ✓ **Supportive Environment:** Current macro environment is supportive of circular economy options.
- ✓ **Strong Commercial Model:** Commercial model is strong with increased tipping fees and demand for high quality repurposed products.
- ✓ **Leadership Expertise:** Significant strategic, commercial, operational, capital markets expertise.

## OPPORTUNITY AND MARKET OVERVIEW

### Limited Processing Solutions for Asphalt Shingles

**84%**

OF HOMES IN THE USA ARE  
ROOFED WITH ASPHALT  
SHINGLES ANNUALLY

**50**

TONS OF CARBON IS SAVED  
BY REPURPOSING 1 TON OF  
ASPHALT SHINGLES

### United States: Addressable Market Opportunity

**\$2.2bn**

MARKET SIZE FOR  
ASPHALT SHINGLES IN  
UNITED STATES

**12Mt**

OF ASPHALT SHINGLES  
SENT TO LANDFILLS IN THE  
UNITED STATES ANNUALLY

### Flagship Case Study: Metro Vancouver

**67%**

OF SINGLE-FAMILY  
DWELLINGS USE ASPHALT  
SHINGLES

**70,000**

TONS OF WASTE ASPHALT  
SHINGLES AVAILABLE IN  
METRO VANCOUVER





## OUR PROPRIETARY CLEAN TECHNOLOGY

Our **"Bitumen Extraction and Separation Technology" (BEST)** utilizes a proprietary process to separate the liquid asphalt, fiber and aggregate components. The process is patentable and we have met with patent attorneys to discuss the filing of a process patent.

Common everyday uses of our products include the following: roads, highways, driveways and parking lots; aircraft & defense manufacturing; boats and watercraft; shingle manufacturing; road construction; embankment construction.

## EMPOWER FACILITY: DELTA, BC



## OFF-TAKE AND SUPPLY AGREEMENTS



### Off-Take in Place

Entered into an off-take agreement with a multi-national construction materials company to purchase 100% of oil production from our Empower Facility and two additional facilities in Western Canada.



### MOU for Fiber

Entered into a non-binding Memorandum of Understanding (MOU) with a large waste management services provider in Canada for 100% of the fiber.



### Shingle Supply

Agreement with a well-known, reputable international manufacturer of asphalt shingles, who will deliver (at its cost) ~1,000 tons per month of its defective / waste shingle material to the Empower Facility in Delta, BC.

## OUR PROPRIETARY PROCESS



## POTENTIAL REVENUE STREAMS AND OUTPUTS





## NEAR-TERM CATALYSTS

Q3 2021

LISTING ON TSX-V



**NORTHSTAR**  
CLEAN TECHNOLOGIES

Q4 2021

STEADY STATE PRODUCTION  
AT EMPOWER FACILITY

Q1 2022

COMMENCE RFPs, PLANNING  
FOR EXPANSION FACILITY

Q2 2022

COMMERCIAL PRODUCTION  
AT EMPOWER FACILITY

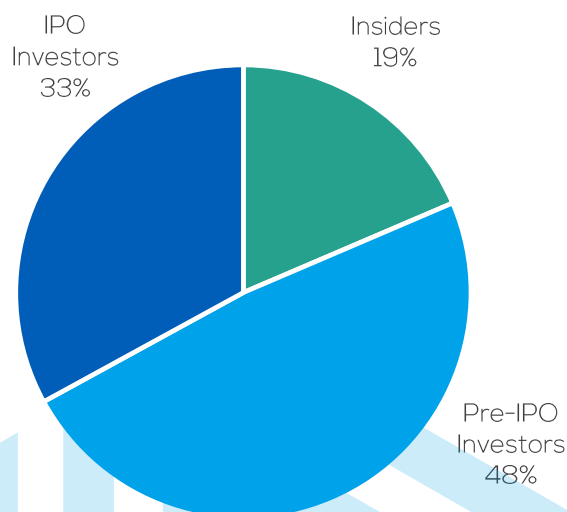
H2 2022

BEGIN CONSTRUCTION ON  
EXPANSION FACILITY 1

H1 2023

COMMERCIAL PRODUCTION  
AT EXPANSION FACILITY 1

## SHAREHOLDERS (BASIC)



## CAPITAL STRUCTURE

Common Shares O/S (Basic)	106.1
Options (@ \$0.35/sh)	5.4M
Warrants (@ \$0.50/sh)	17.5M
Warrants (Broker)	2.0M
Warrants (Empower)	5.7M
Common Shares O/S (FD)	136.7M
Share Price (August 13, 2021)	C\$0.44/sh
Market Capitalization (Basic)	C\$46.7M
Market Capitalization (FD)	C\$60.2M

Certain information in this presentation, including information about our expectations regarding commercial production, our ability to realize the near-term catalysts projected for 2021 through 2022 including our expansion opportunities in Canada and the USA, constitute "forward-looking statements". Forward looking statements are based on assumptions. While management believes these assumptions and statements are reasonable in context, forward-looking statements are inherently subject to political, legal, regulatory, business and economic risks and competitive uncertainties and contingencies. We caution readers that forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results and future performance to be materially different than those expected or estimated future results, performance or achievements and that forward-looking statements are not guarantees of future performance, results or achievements. Northstar assumes no obligation, except as may be required by law, to update or revise these forward-looking statements to reflect new events or circumstances. Risks, uncertainties and contingencies and other factors that might cause actual performance to differ from forward-looking statements include, but are not limited to, the early stage of our company's development; our history of operating losses and negative operating cash flow; risks arising from the continuing COVID-19 crisis; changes in the capital markets; our ability to form strategic relationships needed to establish and expand our business; competition from others with comparative or superior technology; and changes to legislative, political, social health and environmental and economic developments in general.

## CONTACT US

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## INVESTOR RELATIONS

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## CORPORATE

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Transfer Agent	Computershare
Year End	December 31