NORTHSTAR INITIATES STEADY STATE PRODUCTION AT EMPOWER PILOT FACILITY, PROCESSING DISCARDED SHINGLES INTO “GREEN ASPHALT”, FIBER, AND AGGREGATE

Operation validates Northstar’s Bitumen Extraction and Separation Technology (“BEST”) as the design foundation for the Company’s future “scale up” facilities

Northstar to Host Site Visits in February and March 2022 for Industry Stakeholders, Investors, Media, and Government Agencies to Showcase its Operating Process and Technology

VANCOUVER, British Columbia – February 17, 2022 – Northstar Clean Technologies Inc. (TSXV: ROOF, OTCQB: ROOOF) (“Northstar” or the “Company”) is pleased to announce that it has initiated steady state production at its fully constructed asphalt shingle reprocessing facility in Delta, British Columbia (the “Empower Pilot Facility”). The Empower Pilot Facility reprocesses discarded single-use asphalt shingles into liquid asphalt, fiber, and aggregate, allowing these products to enter the circular economy while diverting waste from landfills.

The Company is now producing “green asphalt” within the exact specifications the Company has aimed to produce at the Empower Pilot Facility.

Highlights:

• Operation validates the use of Northstar’s proprietary Bitumen Extraction & Separation Technology (“BEST”) in the foundational design of the Company’s future “scale up” facilities
• The Company has initiated a production plan that includes:
  o Daily production of up to 6 hours per day
  o Processing up to 4-5 days per week
  o Feedstock production of 10-20 tonnes per day (“tpd”)
• Liquid asphalt and aggregate precisely meets the Company’s end product specification objectives
• Ramping up to steady state production provides a clear roadmap to deliver commercial production of 50-75 tpd
• Providing production samples to industry partners and potential customers for detailed technical analysis
• Currently reprocessing large on-site asphalt shingle inventory
• Hosting site visits in February and March 2022 for industry stakeholders, investors, media, and government agencies to demonstrate the operating process and technology
Mr. Aidan Mills, President & CEO and Director of Northstar, states, “One of the critical metrics for any energy transition, ESG-based, clean technology company is demonstrating that its transformational technology actually works. For Northstar to do that, we need to produce the end products from our facility at the specification we expected, in a repeatable manner. Therefore, we are very pleased to announce that the Empower Pilot Facility is not only producing exactly the end products we planned, but we have also initiated the production plan to do that repeatably.”

**Empower Pilot Facility Operational Update**

The Company has initiated steady state production, which is expected to deliver throughput of asphalt shingles in the range of 10-20 tpd up to 4-5 days per week. Steady state operation will continue at these levels with the objective of demonstrating repeatable production in terms of production safety, quality, and duration (hours per day and days per week). Most importantly, the two primary output products (liquid asphalt and aggregate) are being produced exactly as designed, meeting the Company’s end product specifications.

The production of specification products has enabled the Company to deliver samples of its “green asphalt” and aggregate to multiple major road construction companies, shingle manufacturers, and other industry stakeholders. These samples are now enabling detailed technical analysis to be carried out by a wide range of the Company’s potential customers.

Internal testing capability has also been implemented at the Empower Pilot Facility, enabling the development of a quality assurance program for the Company’s reprocessed products.

Since October 2021, the Company has been implementing the changes identified through the unit-by-unit commissioning of the Company’s proprietary BEST process. This commissioning process, combined with the ramp up to steady state production, has provided a clear roadmap for commercial production levels targeted at 50-75 tpd.

Mr. Mills continues, “We are thrilled to have finally entered this critical stage of our company’s development, as we now have ‘proof of concept” and a viable technology. Critically, this technology is the foundation for our ongoing independent engineering design study for our future scale up facilities. Therefore, this announcement is a major inflection point for the Company as it proves to the market that our technology works and validates our business model, as we set out to scale up this technology to a facility size that we can expand with across the North American market.”

Mr. Mills continues, “Our objective is to maximize the applicability of what we believe is the ‘greenest’ asphalt in North America. In delivering this, we will be in the unique position where our reprocessing of asphalt shingles could not only divert approximately 40,000 tonnes of shingles per annum per facility currently sent to landfill, but these products can be applied in numerous markets. We believe we now have a sustainable, proven solution that can help solve North America’s asphalt waste problem.”
Mr. Mills continues, “I would like to thank our shareholders for their continued support and patience. I would also like to thank all members of our operational team for helping us get to this critical juncture. Our operational team has been working around the clock to achieve this significant milestone for our Company. We greatly appreciate your efforts.”

**Site Visits**

To showcase its operating process and technology, the Company is hosting site visits at the Empower Pilot Facility for industry stakeholders, investors, media, and government agencies throughout February and March 2022. All parties interested in receiving a site visit invite should contact the Company below.

**About Northstar**

Northstar Clean Technologies Inc. is a Vancouver-based clean technology company focused on the sustainable recovery and reprocessing of asphalt shingles. Northstar has developed a proprietary design process for taking discarded asphalt shingles, otherwise destined for already over-crowded landfills, and extracting the liquid asphalt, aggregate and fiber for usage in new hot mix asphalt, construction products and other industrial applications. Focused on the circular economy, Northstar plans to reprocess used or defective asphalt shingle waste back into its three primary components for reuse/resale at its Empower Pilot Facility in Delta, British Columbia. As an emerging innovator in sustainable processing, Northstar's mission is to be the leader in the recovery and reprocessing of asphalt shingles in North America, extracting the recovered components from asphalt shingles that would otherwise be sent to landfill.

For further information about Northstar, please visit www.northstarcleantech.com.

**On Behalf of the Board of Directors,**

Aidan Mills  
President & CEO, Director

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*This press release may contain forward-looking information within the meaning of applicable securities legislation, which forward-looking information reflects the Company’s current expectations regarding future events. Forward-looking statements are often identified by the words “may”, “would”, “could”, “should”, “will”, “intend”, “plan”, “anticipate”, “believe”,*
“estimate”, “expect” or similar expressions. Forward-looking statements in this press release include its expectation that steady state production can deliver repeatable production of its primary products with throughput of asphalt shingles in the range of 10-20 tpd up to 4-5 days per week ramping up to commercial production levels of 50 – 75 tpd, its anticipation that it can scale production and facility size across the North American market and divert ~40,000 tonnes of shingles per annum per facility, its expectation that its products can be applied in numerous markets and its belief that it has a sustainable, proven solution that can help solve North America’s asphalt waste problem. Forward-looking information is based on a number of assumptions and is subject to a number of risks and uncertainties, many of which are beyond the Company’s control, which could cause actual results and events to differ materially from those that are disclosed in or implied by such forward-looking information. Such risks and uncertainties include, but are not limited to, factors discussed under “Risk Factors” in the final prospectus of the Company dated June 18, 2021. The Company does not undertake any obligation to update such forward-looking information whether because of new information, future events or otherwise, except as expressly required by applicable law.

Should one or more of these risks or uncertainties materialize, or should assumptions underlying the forward-looking statements prove incorrect, actual results may vary materially from those described herein as intended, planned, anticipated, believed, estimated or expected. Although the Company has attempted to identify important risks, uncertainties and factors which could cause actual results to differ materially, there may be others that cause results not to be as anticipated, estimated or intended and such changes could be material. The Company does not intend, and does not assume any obligation, to update the forward-looking statements except as otherwise required by applicable law.