

Demonstrating renewable heat generation technology

SolarSteam, IMII, and IMII's member companies are collaborating on a demonstration of a Canadian-made, potentially transformative, renewable heat generation project in support of continued sustainable development improvements in the minerals sector. By harnessing Saskatchewan's solar resource, SolarSteam's concentrated solar thermal system has the potential to enhance energy security, improve cost certainty, and reduce GHG emissions, resulting in a competitive advantage for Saskatchewan mineral commodities amongst global competition.

Functionally, SolarSteam may provide low-cost renewable heat to many industry process requirements such as ore processing for minerals and downhole fluid applications, removal of volatile organic compounds and wastewater sludge treatment for a variety of industries. The system may also be used to boost the temperature of waste heat and turn it into a higher quality product for re-use in mine or mill processes.

Phase 1 will develop a preliminary model to demonstrate the potential for a pilot system at a member's site.

The SolarSteam technology has the potential to provide low-cost renewable heat which could be deployed to support industry processes in minerals operations," says Al Shpyth.

"Understanding and validating the technology is critical for both the minerals industry and SolarSteam to fully define the value proposition and consider its potential for deployment as a clean-tech solution."

Proponent:	SolarSteam Inc.
Project Duration:	April to July 2023
Project Cost:	\$50,500
IMII Contribution:	\$25,000
SolarSteam Contribution:	\$25,500



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IMII is a non-profit organization jointly funded by industry and government and is committed to developing and implementing innovative education, training, research and development partnerships for supporting a world-class minerals industry. www.imii.ca