

Demonstrating renewable heat generation technology – Phase 2

Being able to generate heat energy using solar power methods is a concept that has been done on a smaller scale in limited purposes for years. Being able to apply solar technology to generate heat on an industrial scale is something that is currently being evaluated and pursued in this IMII project with SolarSteam ([Lowest Cost Renewable Heat - SolarSteam](#)).

The SolarSteam modular solar thermal system has the potential to be able to provide this needed heat energy from a renewable resource. The proposed system is modular by design meaning it may be custom adapted and deployed to fit process applications adjacent to minerals operations.

In Phase 2, SolarSteam, IMII, and IMII's members will continue the collaboration on a demonstration of a Canadian-made, transformative, renewable heat generation project in support of continued sustainable development improvements in the mining 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 mining amongst global competition.

Functionally, this may provide a low-cost renewable heat to many mining process requirements.



Proponent: *SolarSteam*
Project Duration: January to April 2024
Project Cost: **\$60,000**
Industry Contribution: \$25,000
SolarSteam Contribution: \$35,000

