

# Trust, expertise, and innovation define Inproheat's dynamic presence in the potash industry



*A 182 MM Btu/h SubCom<sup>®</sup> to heat a potash solution mining brine.*

At Inproheat Industries Ltd., three generations of company history have led to a diverse portfolio of notable projects in Canada and around the world.

Our results reflect Inproheat's core values of trust, expertise, and innovation.

We take a listen, understand, and act approach to client communication. When trust is built on a foundation of open dialogue, unwavering transparency, shared ideas, and collective goals, it will lead to success.

The mining industry evolves quickly

– through 60 years in business, we have experienced it first-hand – which means that solutions need to come swiftly and from an informed place. This is our expertise. We identify the needs of our clients and match them closely with our regular observations of current industry trends. This strategy delivers quality solutions with the greatest impact at the most competitive investment.

Innovation is a two-fold process in each project. First, we aim to provide solutions that will offer unparalleled quality and efficiency upon project launch. From there, we will seek out

**SubCom<sup>®</sup>**  
by Inproheat  
offers economic  
advantages and  
fuel savings over  
alternate heating  
methods.

# SubCom®

A 17 MM Btu/h SubCom® Produced Water Heater at a water reclamation facility.

Inset: A 60 MM Btu/h SubCom® Process Water Heater for sulphate of potash production from Great Salt Lake brine.



system design improvements for future integration that will continually exceed expectations. In short, we transform forward-thinking ideas into industry-leading solutions.

The impact of our trust, expertise, and innovation philosophy is most visible in our proprietary technology, Submerged Combustion. An Inproheat cornerstone for over 45 years, SubCom® boasts shorter payback periods on capital expenditures, up to 15 per cent less fuel consumption with proportionally lower greenhouse gas emissions, less maintenance, and high reliability, especially when compared to competing heating technologies.

The appeal and efficiency of SubCom® is reinforced through its history of success.

In 2011, the Potash Corporation of Saskatchewan (PCS) approached Inproheat to modernize a novel 1990 SubCom® application that was instru-

mental in PCS earning a 1991 CGA Award for innovative use of natural gas. With four additional burners, all-new modular fuel trains with automated controls, and a new process control and burner safety management system, the revamped application was installed for the 2011-2012 winter mining season, lending increased heating capacity, technological advancements, and better control over the heating process to the entire operation.

In 2016, Compass Minerals – already using SubCom® technology for a 30 MM Btu/h process water heating system – commissioned Inproheat for an additional unit as part of an expanded system of Sulphate of Potash (SOP) and Magnesium Chloride production from brine taken from the Great Salt Lake in Utah. The new system required twice the capacity through two parallel SubCom tanks, four low emissions burners of 15 MM Btu/h ca-

capacity each, along with heat recovery units for high thermal efficiency. To provide an operator-friendly environment and facilitate the transition, Inproheat integrated previous components and design specifications. The project was delivered in 2016.

These are just two examples. We would welcome the chance to learn about your project goals for 2021 and beyond.

Let's build a sustainable SubCom® solution for your next potash mining project – through trust, expertise, and innovation.

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