

WORKING TOWARDS A SUSTAINABLE FUTURE IN A SUSTAINABLE MANNER



ioneer's entire focus is to develop and produce the materials necessary for the transition to a zero-carbon future, which will help ensure the protection and preservation of all plant and animal species, including Tiehm's buckwheat.

The company has invested over four years and greater than \$70 million into the development of the Rhyolite Ridge Project. The \$785 million project is the only American lithium project with a comprehensive Definitive Feasibility Study, and is now well advanced and approximately nine months from being ready to commence construction. The Project has been designed to have low energy consumption and substantially reduced water needs compared to other lithium projects – two of the many hallmarks of ioneer's contribution to environmentally responsible extraction and worldwide greenhouse gas reduction.

HELPING GLOBAL TRANSITION TO LOW CARBON FUTURE

A core mission of ioneer is to develop a U.S. based source of lithium and boric acid that can be efficiently and economically produced and delivered to domestic and international customers. Both lithium and boric acid are used in a diverse range of everyday items and innovative technologies that are essential to modern life and emerging clean technologies such as electric vehicles and renewable energy.



LITHIUM

Lithium is a critical raw material to enable technologies that reduce climate change. It is an irreplaceable component for current and next-generation batteries essential to the mass adoption of electric vehicles and electric battery storage systems that lead to greenhouse gas emission reductions.



BORON

Boron is also a primary material for clean technologies and sustainability and is only produced in a few locations globally. It is used in over 300 applications, including home insulation, permanent magnets for electric cars and wind turbines, and advanced glass for televisions, computers, handheld devices and solar panels.

OPERATING RESPONSIBLY

The geology and mineralization of the Rhyolite Ridge Project is globally unique and affords the opportunity for ioneer to extract strategic and critical minerals in an environmentally responsible manner, with low emission power sourced on-site, substantially reduced water usage compared to other lithium mines, and a small surface footprint.



LOW EMISSIONS

ioneer's planned processing facility includes a sulfuric acid plant and related steam turbine, which will allow the Company to produce sufficient electricity to power its entire operation. This means zero reliance on the Nevada electrical grid and minimal use of fossil fuels to produce needed electricity. Electricity generated in this manner produces minimal CO2 emissions and minimal hazardous air pollutants and is considered green co-generation.



REDUCED WATER NEEDS

Water use associated with ioneer's mineral extraction process is extremely low compared to other lithium producers that utilize brine extraction and solar evaporation processes. The design is based on the recycling of the majority of water usage, which further reduces make-up water demand. Rhyolite Ridge expects to use 30x less water per ton of lithium than the one existing U.S. producer.



WILDLIFE PROTECTION

One of the fourteen environmental baseline studies completed by ioneer focused on characterizing the flora and fauna of the area. Amongst other species, this study concentrated on Tiehm's buckwheat, a plant that is designated as a Bureau of Land Management (BLM) Sensitive Species. ioneer has developed and implemented a comprehensive protection plan that includes strict measures to ensure that Tiehm's buckwheat and its habitat are protected and that the potential impacts caused by development of the Project are minimized.