

## Highland Valley Copper 2040 Fact Sheet: Copper Demand

### About Highland Valley Copper 2040





Teck's **Highland Valley Copper Operations (HVC)** is proposing the **Highland Valley Copper 2040 Project (HVC 2040)** to extend the life of the operation to at least 2040, through an extension of the existing site infrastructure. HVC 2040 allows for the continuation of social and economic benefits, while also helping to meet the growing demand for copper driven by the transition to a low-carbon future. HVC 2040 would yield approximately 1.95 million tonnes of additional copper over the life of the Project.

#### Why Copper?

Copper is an essential part of people's lives. Today, copper is the material of choice for powering our modern world as a vital component in everything from power generation to hybrid vehicles to computers and smartphones.

### Copper Powers the Modern World

Demand for copper is expected to more than double by 2050, due to several factors including the global transition to a low-carbon future, global population growth, and urbanization.

-  Electric vehicles can require up to 4 times as much copper as gasoline vehicles.
-  About 4-5 tonnes of copper is required per megawatt of installed solar power.
-  Onshore wind energy requires 2-6 tonnes per Megawatt.
-  Renewable energy systems can require up to 12 times more copper compared to traditional energy systems.

#### Did You Know?

Copper is a major component of most vehicles, with electric cars using up to 83 kg per vehicle, four times as much as a gasoline car.

#### Average kilograms of copper needed per vehicle type



Teck's electric crew bus pilot is one of many initiatives that demonstrates the valuable role copper plays in helping reduce emissions.



## Copper Supports Public Health

Copper has unique properties that can eliminate up to 99.9% of harmful bacteria on high-touch surfaces, helping keep us safe and stopping the spread of infection. It is the only solid metal touch surface registered as a public health product by Health Canada and the U.S. Environmental Protection Agency.

As a result, there is growing use of bacteria-killing copper around the world to reduce the spread of infections; in transit, commercial and educational office spaces, and, most importantly, healthcare facilities.

As a major copper producer, Teck is committed to advocating for the use of copper as a solution to protect public health. Teck seeks to improve health outcomes for people and to raise awareness about the important role that mining and metals play in our everyday lives.

Through the Copper & Health program, Teck is supporting multiple pilot projects that showcase the efficacy of copper in daily life and testing copper alloys on high-touch surfaces. This includes a pilot project within Vancouver and Toronto transit, designed by the infection control experts at Vancouver Coastal Health, to test out copper surfaces in high traffic public spaces.

HVC 2040 will help Teck continue to provide the world with this valuable metal, while bringing economic and social benefits to the region.



## Engage with Us

We want to hear from you about the future of HVC. Email [HVC2040.feedback@teck.com](mailto:HVC2040.feedback@teck.com) or call 1.855.523.3429 to share your feedback, and visit [hvc2040.teck.com](http://hvc2040.teck.com) to learn more.