

# The L1X Lithium™ Direct Carbon Reduction from Emissions Report

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## Petroleum

vs

## Electric Vehicle

### 4600 KG of Carbon

...is produced from the average  
Canadian car emissions, per year<sup>1</sup>

The average Canadian vehicle, which  
burns 2000 L of gas per year, releases  
4600 kg of CO2 into the atmosphere.

### Mining Facts<sup>3</sup>

Traditional lithium mines (evaporation  
ponds) take approximately 2 years to  
extract their first ton, with only 50%  
efficiency & high water consumption.

1 Source: National Resources Canada  
[https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/0ee/pdf/transportation/fuel-efficient-technologies/autosmart\\_factsheet\\_6\\_e.pdf](https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/0ee/pdf/transportation/fuel-efficient-technologies/autosmart_factsheet_6_e.pdf)

### 8 KG of Lithium

...is what the average electric vehicle  
(EV) battery contains<sup>2</sup>

**L1X Lithium™ is a clean process**, with  
zero water consumption and no  
pollution supplying the EV market

**L1X Lithium™ facilities** start producing  
within days, and can be mass produced to  
meet the growing global demand with 2X  
the production efficiency.

2 Source: How much lithium does an EV need?  
<https://www.weforum.org/agenda/2022/07/electric-vehicles-world-enough-lithium-resources/>

## L1X Lithium™ Clean Tech Facility Estimated Direct Carbon Footprint Reduction:

*Assuming an average of 10KG of lithium used per car, each L1X facility:*

- Generates: 10,000 tons of clean sourced lithium per year
- Produces: enough lithium for 1000 EV batteries
- Eliminates: **4.6 Million tons** of carbon per year from emissions alone

## Life-of-Mine Estimate is a 500 Million Ton Reduction:

An average L1X Lithium™ facility producing 30,000 tons per year would eliminate 13.8 million tons of carbon from emissions alone, each year. Each location having an average mine life span of 40 years would eliminate over **500 MILLIONS TONS** of carbon per facility.

<sup>3</sup> Other references: Pollution Probe 2009, Primer on Automobile Fuel Efficiency and Emissions, 2009. [www.pollutionprobe.org](http://www.pollutionprobe.org) Canada's Action on Climate Change, [www.climatechange.gc.ca](http://www.climatechange.gc.ca) Environment Canada, [www.ec.gc.ca](http://www.ec.gc.ca) Natural Resources Canada, [www.nrcan.gc.ca](http://www.nrcan.gc.ca) U.S. Environmental Protection Agency, [www.epa.gov](http://www.epa.gov) and [www.fueleconomy.gov](http://www.fueleconomy.gov) U.S. Department of Transportation, [www.italladdsup.gov](http://www.italladdsup.gov) National Association of Clean Air Agencies, [www.4cleanair.org](http://www.4cleanair.org) The International Council on Clean Transportation, [www.theicct.org](http://www.theicct.org)