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**A Natural Resource Exploration Company**

January | 2022

# Disclaimer

The information contained herein has been prepared to assist interested parties in making their own evaluation of Strike Copper Corp. (“SCC” or the “Company”) and does not purport to contain all of the information that a prospective investor or partner may desire. In all cases, interested parties should conduct their own investigation and analysis of SCC. Neither the Company nor any of its affiliates make any representation or warranty as to the accuracy or completeness of the information presented. This includes, without limitation, any estimates or projections, and neither the Company nor its affiliates shall have any liability for any statements (expressed or implied) contained in, or for any omissions from, this presentation or any other written or oral communications transmitted to the recipient hereof in the course of its evaluation of the Company, nor should anything contained herein be relied upon as a promise, representation or warranty regarding future events or performance of the Company. Moreover, the information contained herein speaks as of the date hereof; the Company undertakes no obligation to update any such information. The only statements that will have any legal effect will be those specifically contained or referred to, and then only to the extent provided, in definitive legal documentation. Mineralization hosted on adjacent and/or nearby properties is not necessarily indicative of mineralization hosted on the Sungold Property.

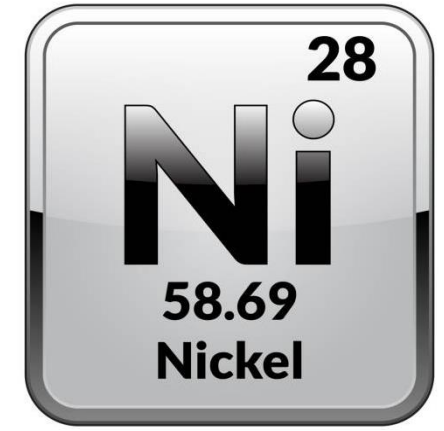
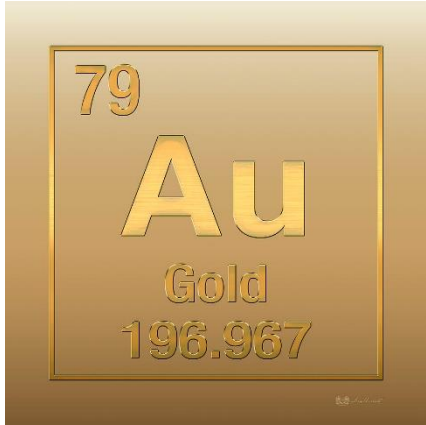
## **Financial Information, forward looking statements and cautionary notes**

All financial information included in this document is unaudited. There is a material risk that the audited financial results will differ significantly from the unaudited financial information presented herein. This document also contains future-oriented financial information and financial outlook information (collectively, “FOFI”) about prospective results of operations, share capital, cash flows, and components thereof, all of which are subject to the same assumptions, risk factors, limitations, and qualifications as set forth in the above paragraphs. FOFI contained in this document was made as of the date of this document and was provided for the purpose of providing information about management’s current expectations and plans relating to the future. We disclaim any intention or obligation to update or revise any forward-looking statements or FOFI contained in this document, whether as a result of new information, future events or otherwise, unless required pursuant to applicable securities law. Readers are cautioned that the forward-looking statements and FOFI contained in this document should not be used for purposes other than for which it is disclosed herein. The forward-looking statements and FOFI contained in this document are expressly qualified by this cautionary statement.

Certain information contained herein is based on, or derived from, information provided by independent third-party sources. We believe that such information is accurate and that the sources from which it has been obtained are reliable. We cannot guarantee the accuracy of such information, however, and has not independently verified the assumptions on which such information is based. We do not assume any responsibility for the accuracy or completeness of such information.



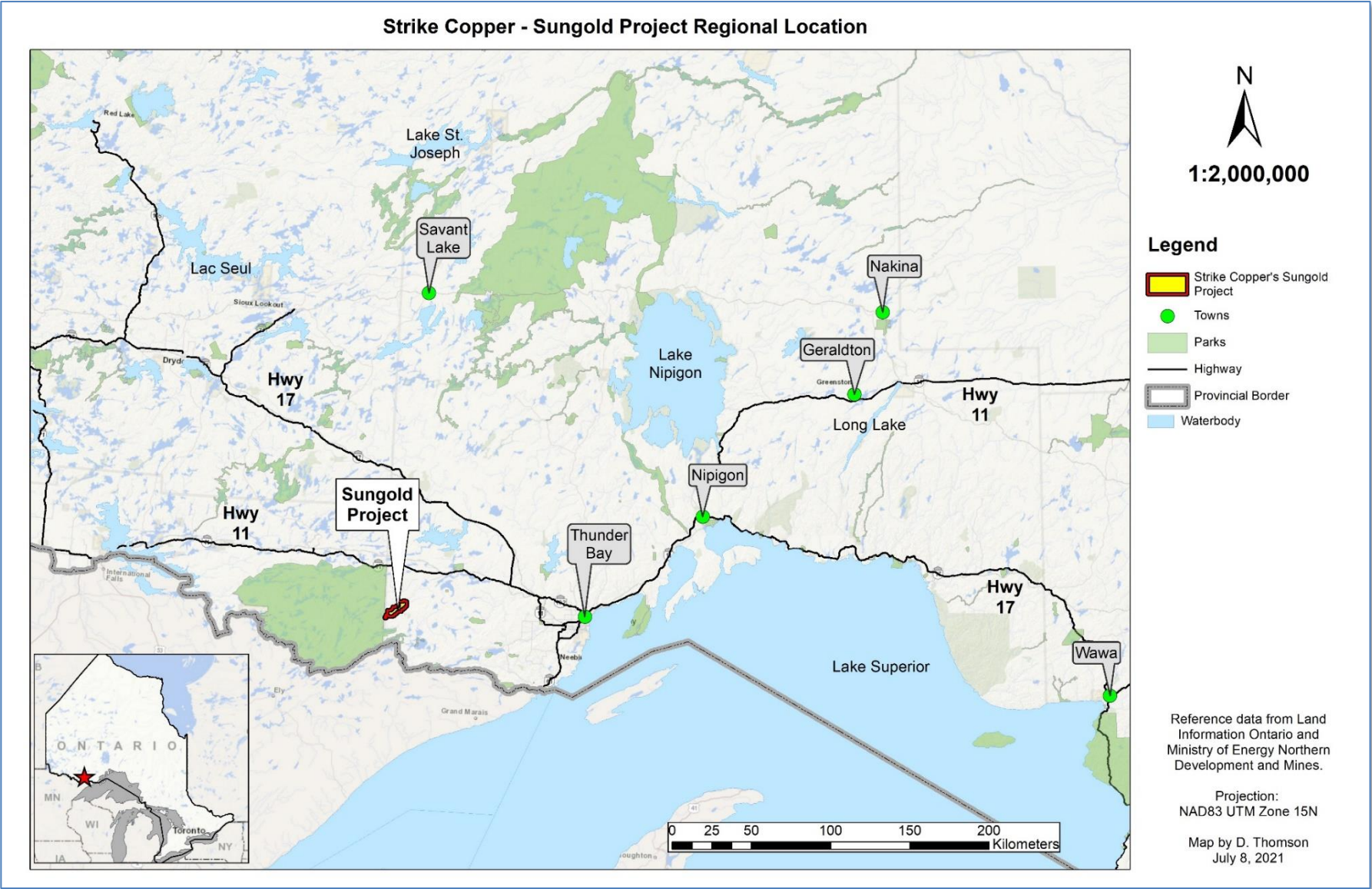
# Mission Statement



Strike Copper Corp. ("SCC") is a junior mineral exploration company currently focused on defining and monetizing the resource potential of its Sungold property in the prolific Shebandowan Greenstone Belt in Northwestern Ontario.



# The Sungold Property

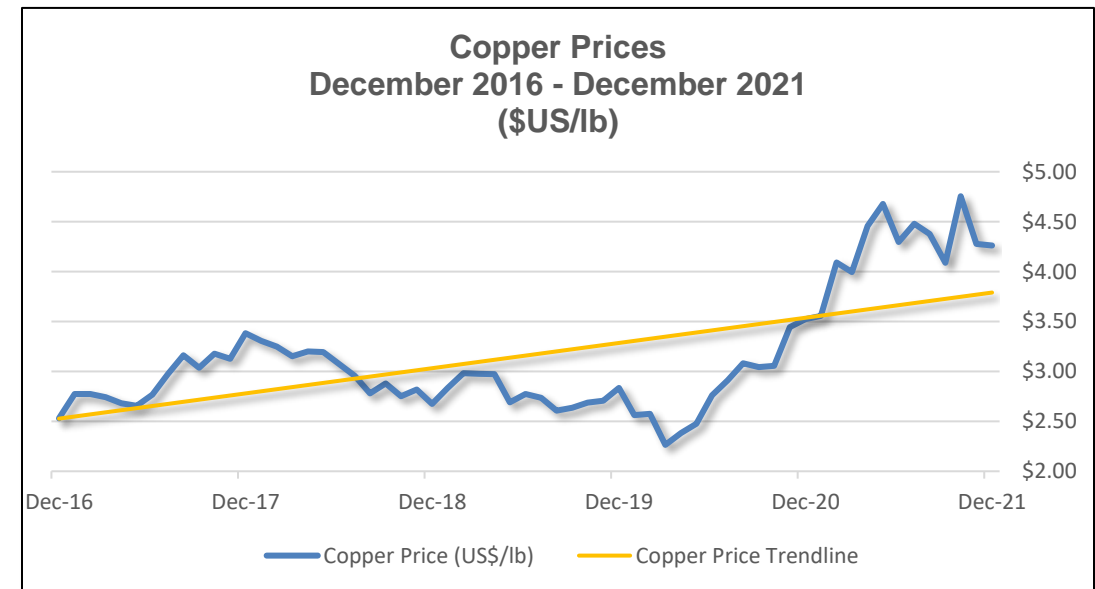


# Investment Overview

*SCC intends to create shareholder value through the exploration and development of mineral projects with strong underlying historical and proven resource potential.*



- SCC is currently raising seed capital from a minimum of 150 investors via an Offering Memorandum put the company on a fast track to a public listing. The funding will be used for working capital and to conduct exploration on SCC's Sungold Property. The offering is available online and may be found at [Dealmaker.tech](https://www.dealmaker.tech).
- This will also allow SCC to complete the requisite regulatory filings to obtain a listing on the Canadian Stock Exchange ("CSE"). Completing the raise and acquiring the listing in a timely manner will also enable SCC to take advantage of recent developments on an adjacent property (Goldshore Resource's Moss Lake property).



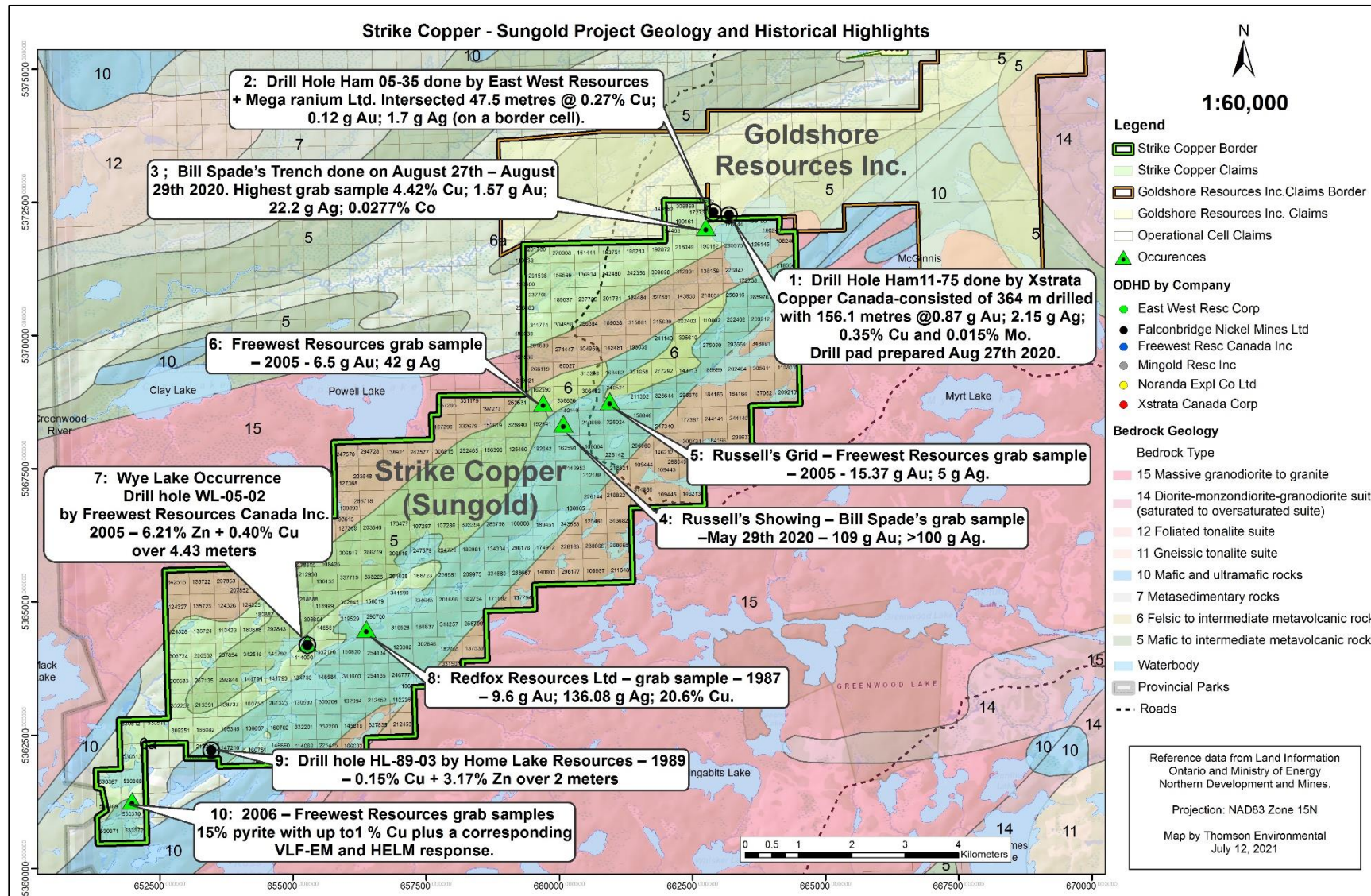
Source: <https://www.investing.com/commodities/copper-historical-data>



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# Shebandowan Greenstone Belt



## Update on the Moss Lake Property

- On May 31, 2021, publicly held Goldshore Resources (TSX-V: GSHR) completed its acquisition of **Wesdome Gold Mines** 143 sq.km. Moss Lake gold project **for total consideration estimated at \$57 million** (including \$12.5 million in cash) plus a 1% NSR royalty.
- Wesdome will retain a 30.1% interest** in Goldshore with additional payments in the form of shares over the next 48 months, indicating Wesdome's intention to maintain a meaningful, long-term exposure to the Moss Lake project.



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# Investment Transaction

SCC is seeking to raise seed capital from the sale of hard dollar common share units. Proceeds will be used to advance the Sungold Property, complete the work necessary to obtain a listing on the Canadian Stock Exchange (CSE) and for other working capital requirements. Another important objective of this offering is to acquire 150 registered shareholders – the minimum required to obtain a listing on the CSE.

Securities Offered <sup>1</sup> .	1. Hard Dollar Common Share Units, comprised of 1 common share and 1 common share warrant. 2. Flow-Through Common Share Units, comprised of 1 flow-through common share and 1 common share warrant.
Price	\$.20 for each Hard Dollar Common Share Unit and \$.25 for each Flow-Through Common Share Unit.
Warrant Features	The Hard Dollar Common Share Unit warrants are priced at \$.30 and Flow-Through Common Share Unit warrants for common shares are priced at \$.35. All warrants expire on December 31, 2024, subject to price-triggered acceleration at SCC's sole discretion. <sup>2</sup>
Offering Size	There is no minimum. The maximum is \$1,400,000 (\$400,000 in Common Share Units and \$1,000,000 in Flow-Through Units).
Investment Limits	An investor must invest a minimum of \$1,500 (7,500 Units or 5,000 Flow-Through Units).

Use of Proceeds	Maximum Raise
Working Capital <sup>3</sup> .	\$1,200,000
Phase 1 Exploration Costs	\$200,000
Total Use of Proceeds	\$1,400,000

## Notes:

1. Please review the company's offering documentation for complete details. This presentation is intended for information purposes only (see "Disclaimer" on Slide 2).
2. The Warrants and Flow-Through Warrants (the "Warrants") are subject to acceleration should SCC's Common Shares trade on an exchange for five (5) or more consecutive days at a price of \$0.45 or greater. In such event, SCC may, at its option, provide written notice to the holder requiring that the Warrants be exercised within 30 days of the date of the notice, failing which the Warrants shall immediately thereafter expire.
3. Includes all fees, including commissions (if any) associated with this investment round, on-going administration, investor relations, operations and expansion as well as **Phase 2 exploration expenses on the Sungold property (currently budgeted at \$300,000 per the Company's NI 43-101 Technical Report)**. The company does not budget for management fees.



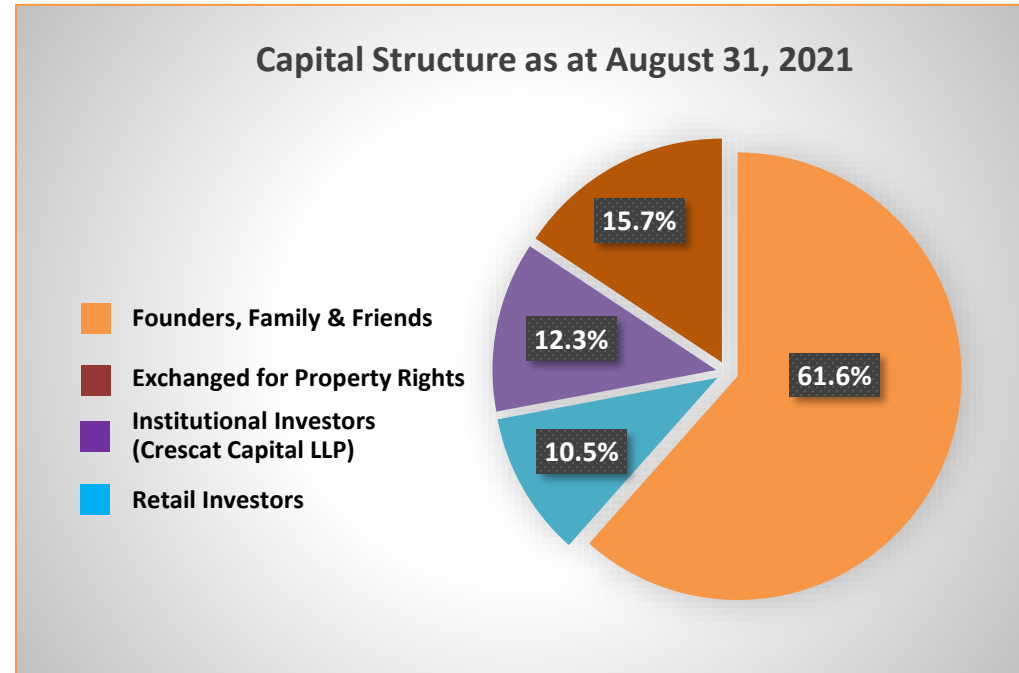
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# Current Capital Structure

SCC' share structure has been designed to incentivize the founders and management to grow the company's assets through development and expansion over the medium to long term.

Capital Structure as at August 31, 2021	
<b>Equity Shareholdings</b>	
Founders, Family and Friends <sup>1</sup>	10,000,000
Exchanged for Property Rights	1,700,000
Institutional Investors <sup>2</sup>	2,000,000
Retail Investors <sup>3</sup>	2,545,100
<b>Sub-Total Equity Financing</b>	<b>16,245,100</b>
<b>Warrants Outstanding<sup>4</sup></b>	<b>4,245,000</b>
<b>Shares Fully Diluted</b>	<b>20,490,100</b>
<b>Term Debt</b>	Nil
<b>Cash Raised to Date</b>	<b>\$524,500</b>



**Notes:**

1. Shares to Founders were issued in exchange for SCC's flagship Sungold property.
2. Includes 1,000,000 shares @ \$.10 and 1,000,000 shares at \$.20.
3. Includes 300,000 shares @ \$.033 (issued for the conversion of debt) and 2,245,000 shares @ \$.10.
4. All outstanding warrants are subject to acceleration should SCC's Common Shares trade on an exchange for five (5) or more consecutive days at a price of \$0.40 or greater. In such event, SCC may, at its option, provide written notice to the holder requiring that the Warrants be exercised within 30 days of the date of the notice, failing which the Warrants shall immediately thereafter expire.

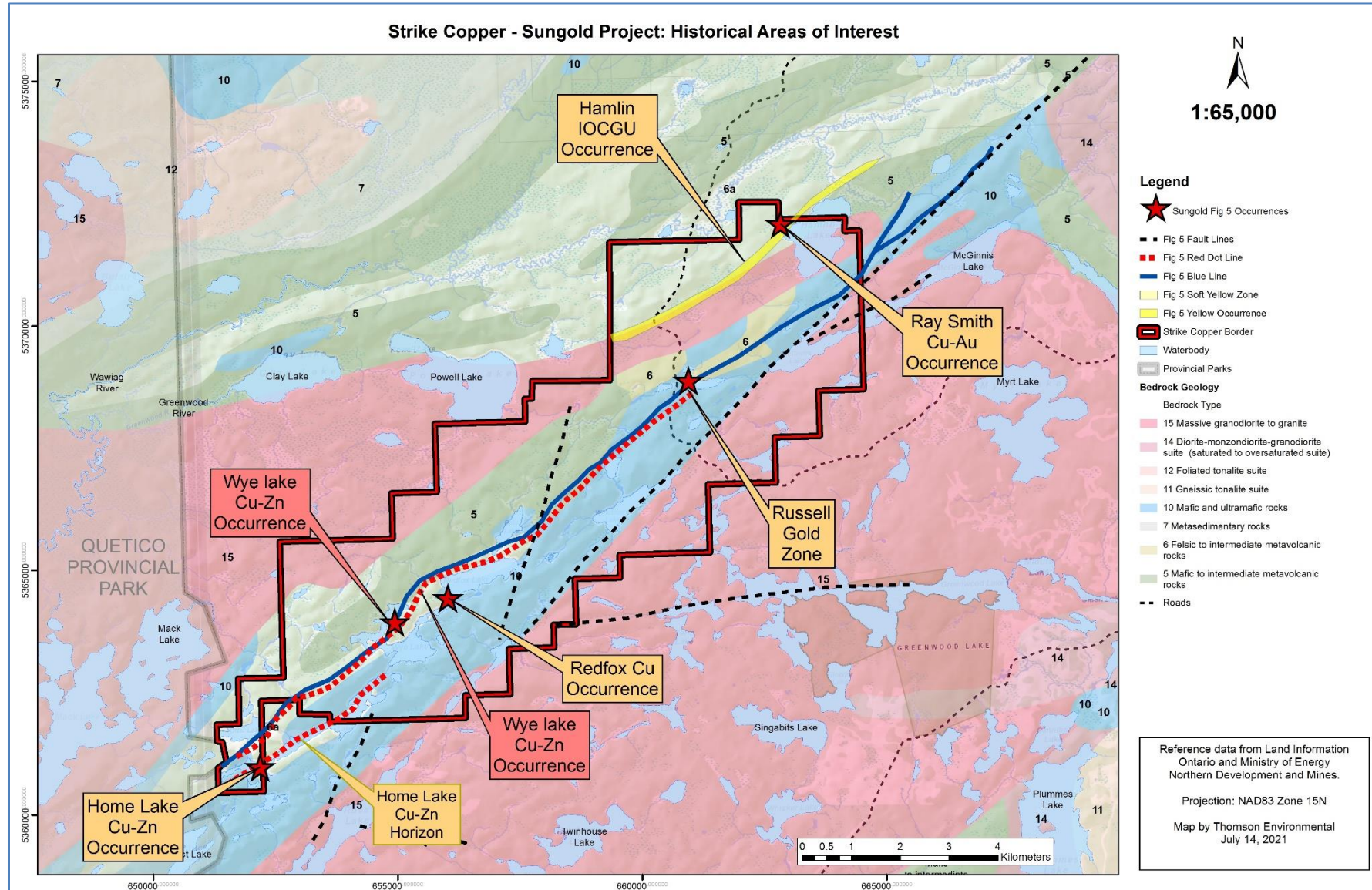


# Sungold Property: Historical Results

- The 15,000-plus acre Sungold property includes the massive sulphide Wye Lake occurrence and the southeast extension of Goldshore's Hamlin IOCG (iron oxide-copper-gold-uranium) deposit, which has the potential for Ni-Cu-PGE and Porphyry Cu mineralization.
- In 2005, backhoe trenching of the Wye Lake Zone intermittently exposed massive, semi-massive and stringer sulphides over an 850-metre strike length contributing to **an IPV of approximately \$54 million at the time** for the then owner of the property (Freewest Resources).
- Highlighting the trenching program was the uncovering of massive zinc-copper mineralization at two locales, situated 400 metres apart and on strike with each other. Specifically, assays of up to 27.8 per cent zinc and 0.91 per cent copper were obtained at one trench line and up to 29.8 per cent zinc and 0.84 per cent copper were obtained at another. Other drill holes in the Wye Lake area also provided interesting results, including WL05-08 of 13.75 metres of 0.77 per cent Cu and WL05-13 of 12.45 metres of 0.72 per cent Cu.
- At the Hamlin IOCG location, one drill hole (drilled in 2011 by Xstrata Copper Canada) approximately 10 metres from the Sungold claim line next to Goldshore, **HAM-11-75, came in at 156.1 metres grading 0.35 per cent Cu, 0.015 per cent Mo, 2.15 g/t Ag and 0.87 g/t Au**. Another drill hole, in the immediate area, **HAM-05-35, had the copper equivalent of 0.68 per cent over 49 metres**.



# Sungold Property: Historical Results





# Sungold Property: Historical Results



## Immediate Target: HAM-11-75 (drill cap circled)

- HAM-11-75 is approximately 10 metres from SCC's claim line with Goldshore Resources' Moss Lake property. After 15.5m of overburden, the drill encountered a potassically altered breccia from 15.5 - 316.5m with a minor unit of diorite (at 86 - 126.6m) and a minor shear zone (at 213.4 - 234.1m).
- The drill then encountered felsic volcanics at 316.5m which persisted until the end of the hole at a depth of 364m.
- The hole contained an interval of **156.1m grading 0.35% Cu 0.015% Mo, 2.15 g/t Ag, and 0.87 g/t Au**



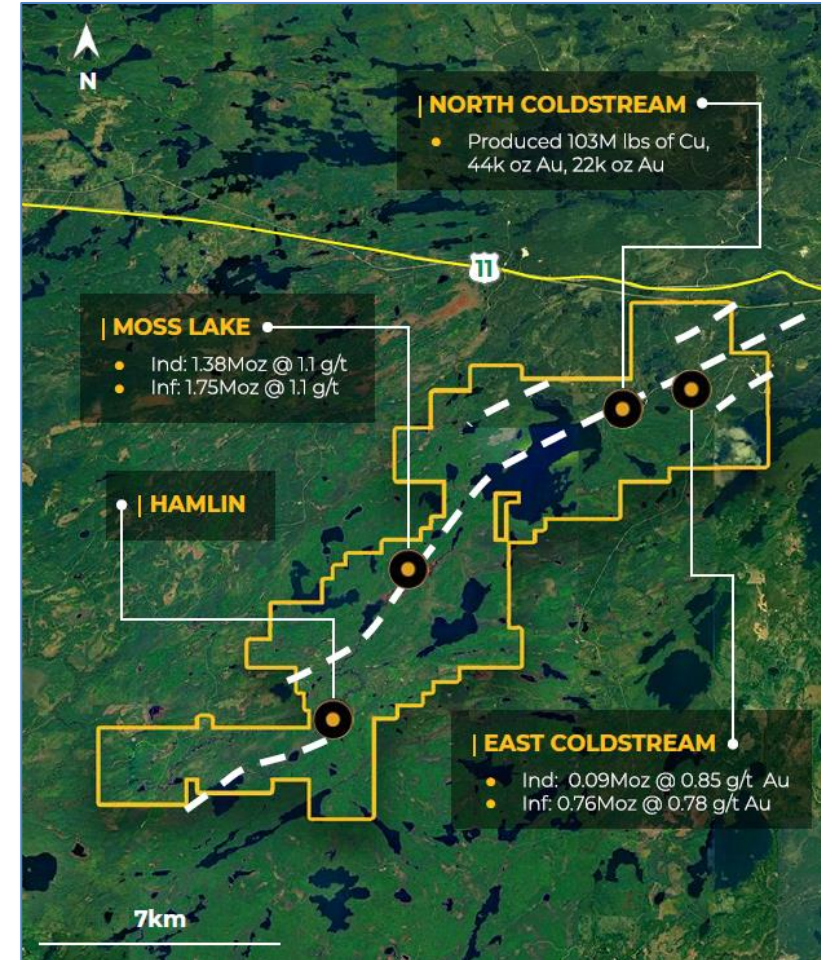
To the left is a picture taken in September 2020 showing historical trenching near drill hole **HAM-05-35**, displaying brecciated rock with gossan throughout.



# Current Exploration Activity

## Current Exploration Activity

- The Sungold property is directly adjacent to Goldshore Resources' Moss Lake 4.0 million oz/t Au deposit.
- The property was acquired by Goldshore from Wesdome Gold Mines Ltd. in a \$57 million transaction, which closed on May 31, 2021.
- On the same day, Goldshore completed a \$25 million financing and its shares began trading on the Toronto Venture Exchange (TSX –V) on June 4, 2021.
- Some of the proceeds of the financing are being used to undertake a 100,000-metre drill program at Moss Lake.
- The map to the right shows historical results from the Moss Lake Property. **Note the Hamlin trend line, which heads directly into SCC's Sungold property.**



Source: [Goldshore Resources Corporate Presentation](#).





# Sungold Property Today



- To the far left is a photograph taken in September 2020 of Russell Kwiatkowski, SCC Director and a recent recipient of the Lifetime Achievement Award for his outstanding work and continuous dedication to prospecting in Northwestern Ontario.
- The pictures to the immediate left (also taken in September 2020) show SCC's backhoe operator pulling out visible, near-surface copper samples as he trenches the area surrounding HAM-11-75.





# Sungold Property Today



The above picture taken in September 2020 shows iron gossan in which elevated values of copper, gold, silver and molybdenum are found (molybdenum is commonly recovered as a by-product or co-product from copper mining).



The above picture (also taken in September 2020) shows SCC's prospector photographing surface evidence of mineral deposits.



# Our Mandate & 2021 Objectives

## Mandate

Our mandate has been to focus on properties that are not too remote, in suitable mining jurisdictions and near infrastructure.

**Our approach has been to re-think previous work and apply solid science to identify economically viable resources with strong demand potential, such as copper (see Appendices A & B).**

The objective is to focus on mineralization areas that contain potentially significant quantities of mineralized deposits.

From a capitalization perspective, this allows us to operate efficiently and effectively, limiting excess shareholder dilution and enabling us to focus on making each share more valuable.

We intend to keep the drill bit running, stay focused and build our mining assets. Competence and upholding our fiduciary responsibilities will be our guide to building up and sustaining shareholder trust.

## 2021 Objectives

- Raise funds for working capital as well as on-going and scheduled exploration efforts, including:
  - Trenching/exploration – already underway;
  - Phase I drilling as outlined in the NI 43-101.
  - Phase II drilling (based on the results of the Phase I drilling program).
- Complete financial and other documentation preparation and submissions required for a listing on the CSE (Note: SCC's NI 43-101 Technical Report has already been completed).
- Then, subject to regulatory approval, commence trading on the exchange.



# Management Team

## **Charles J. Elbourne, B.Comm, MBA – *President, CEO & Director***

Charles has over 45 years experience in the investment industry, including 25 years involvement in mineral exploration and mining and is currently affiliated with Echo Ridge Resources Inc., Interbanc Capital Corp., Parklane Securities Ltd. and Tashota Resources Inc. Charles has demonstrated considerable expertise in: (a) identifying and negotiating the rights to exploration properties, including the properties optioned by TRI; and (b) assembling management and operational teams, including geological and mining experts.

Charles started his career in the investment industry at Nesbitt Thompson Securities Ltd., Subsequently, he spent 12 years as a Director and Resident Sales Manager of Deacon Hodgson, a national brokerage firm, and four years with Burns Fry, Yorkton and St. Lawrence Securities. Upon resigning from St. Lawrence Securities, Charles established his own financial planning firm, Tax Advantages Inc. (a registered mutual fund dealer), C. J. Elbourne Securities Inc. (a licensed Securities Dealer).

Charles holds a B.Comm degree, a Diploma in Management Sciences and an MBA, all from the University of Ottawa.

## **Jon Li, CPA, MBA – *Chief Financial Officer***

Jon Li brings more than 20 years of finance experience with speciality in mining, technology and financial service industry. As the Vice President of WD Numeric, a full-service accounting firm that provides financial and support services for both public and private companies, Jon leads ongoing process improvement efforts, conducts quality control reviews of client files, and provides CFO services to a portfolio of clients.

Prior to WD Numeric, Jon was the Financial Controller at Strategic Pricing Management Group (SPMG) and was responsible for managing all financial activities of the company including set-up and maintenance of general ledger accounting system, budgeting, forecasting, cash management and financial reporting. Jon is a CPA (US & Canada) and holds a MBA with concentration in Accounting.



# Management Team

## **Russell Kwiatkowski, BSc., MBA –** **Director**

Russell has been an avid and successful gold prospector and mineral exploration property optionor in Thunder Bay, Ontario during the past 45 years. Along with his son Derrick, Russell received the prestigious 2004 Discovery of the Year Award from the Northwestern Ontario Prospectors Association for the Larose Project located 100 km west of the city of Thunder Bay, Ontario, Canada.

In 2015, Russell was the recipient of the Lifetime Achievement Award for his outstanding work and continuous dedication to prospecting in Northwestern Ontario.

## **Ikram A. Osmani, MSc., P.Geo – Director**

Ikram (Ike) has 35 years experience in field-based mineral exploration (for a variety of mineral commodities in diverse geological settings) as well as resource development and research encompassing geological mapping, geophysical data interpretation, diamond drill program supervision, core logging, field project planning and supervision and preparation of NI 43-101 technical reports as a Qualified Person (“QP”). Ike also has five years corporate experience including running publicly-traded junior resource companies in executive capacities.

His accomplishments include the development of a NI 43-101 compliant gold resource of approximately one million ounces (Indicated and Inferred) in less than two years in the Shebandowan greenstone belt in Northwestern Ontario and the discovery of significant Titanium-Vanadium mineralization while exploring and developing a magmatic Ni-Cu-PGM deposit approximately 75 km west of the “Ring of Fire” also in Northern Ontario.

## **Paul Cooper, BBA – Director**

Paul is an active investor in mining projects, including Tashota Resources Inc., Trojan Gold Inc. (both related companies of SCC) and others.

Since 1991, Paul has been providing landscape & design, excavation and environmental remediation services and since 2007, he has been providing property management, condominium development services, insurance restoration and exterior building renovations all in Alberta.

Prior to his private sector activities, Paul was an Executive Assistant to the Minister of Health for Newfoundland and Labrador (1984-1989).





# Advisory Team & Outside Support

## **Colin Bowdidge, Ph.D., P.Geo.**

Colin has worked in mineral exploration for 34 years. After working for major mining companies for five years, Colin became a consulting geologist in 1974. With a thorough knowledge of applied geology as it relates to mineral exploration, Colin also has extensive hands-on experience in modern geophysical and geochemical exploration techniques.

Colin was instrumental in the discovery of the Olden Wollastonite deposit in southeast Ontario in 1986, which contains a measured resource of 2.5 million tonnes grading 29% high aspect-ratio wollastonite with an estimated gross value of \$1-2 billion dollars. Colin has served as a director and/or officer of several publicly traded mining and exploration companies. Colin received an M.A. degree in mineralogy and petrology from the University of Cambridge and a Ph.D. in geology from the University of Edinburgh.

## **Gerry D. White, P.Geo., B.Sc.**

For the past 37 years, Gerry has worked extensively with multiple exploration and mining organizations, including Taiga Consultants Limited, Pan Ocean Limited/Abermin Corporation, Pacific Petroleum Limited, the Saskatchewan Mining and Development Corporation and the Ontario Geological Survey (OGS). Gerry has authored and co-authored various reports on natural resources, including reports on the Beardmore-Geraldton Gold Camp area.

Gerry has also dealt with numerous First Nation issues and provided ongoing consultations in this arena. His working knowledge of the Mining Act has been used to advise exploration clients on staking regulations, assessment work requirements and advanced exploration issues. Gerry is an active member of the Association of Professional Geoscientists of Ontario and holds a Bachelor of Science (Geology) Degree from the University of Manitoba.

## **Rudolf Wahl**

For the past 24 years, Rudy has been an award-winning prospector in the Thunder Bay South District, which includes the Marathon–Hemlo Mining Camp. In April 2020, Rudy received PDAC's prestigious 2020 Bill Dennis Award, which honours those who have made a significant mineral discovery or made an important contribution to prospecting and/or exploration industry.

In 2015, Rudy received the Bernie Schneider "Discovery of the Year Award" for his discovery of Niobium in the Thunder Bay region.

In 2012, Rudy was presented with the Lifetime Achievement Award Northwestern Ontario Prospectors Association for outstanding work as a prospector in Northwestern Ontario.



# Advisory Team & Outside Support

## **Rodney Barber, B.Sc., P.Geo**

Rodney is a senior geologist with extensive experience in exploration and production for many of the world's largest mining companies, including Kinross Gold Corporation, Noranda Exploration Company, BHP Minerals, Gold Fields Canadian Mining Ltd. and Royal Oak Mines, Inc.

He was most recently employed as the Geology Superintendent for Barrick's Williams Mine at Hemlo, Ontario (2010-2018). He reached this position after joining the company in 2001 as a Mine Geologist and rising through the ranks from Senior Production Mine Geologist to Senior Resource Geologist to Chief Geologist. In his most recent role at Barrick, Rodney was responsible for extending the life of the mine by at least 18 years through the discovery and delineation of over 4.5 million oz of gold in reserves and resources.

Rodney holds a B.Sc. (Honours) in Geology, Laurentian University, Sudbury, Ontario (1988) and many other diplomas and certificates relating to leadership and geology.

**Legal Counsel:** CC Corporate Counsel Professional Corporation

**Auditors:** Clearhouse LLP

**Bank:** TD Canada Trust

**Transfer Agent:** Capital Transfer Agency



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# Why Invest in Strike Copper?

- Proven management and a highly experienced advisory team.
- Strong and growing (long term) demand for copper – SCC's primary resource.
- Sungold – strategically located – with impressive current and historical exploration results for copper and the potential of economically significant quantities of gold, silver, zinc and other mineral resources.
- Adjacent to a 43-101 proven and inferred approximately 4.0 million Au resource (held by Goldshore Resources Inc.) in the renowned Shebandowan Greenstone Belt.
- Share capital is well-structured.
- **A clear path forward to a CSE listing.**





# Ontario Statutory Rights Summary

If you are purchasing securities and you have been provided with this document you will have certain rights, some of which are described below. For information about your rights you should consult a lawyer.

Statutory Rights of Action in the Event of a Misrepresentation - If there is a misrepresentation in this document, you have a statutory right to sue:

- i. Strike Copper Corp. to cancel your agreement to buy securities, or
- ii. for damages against Strike Copper Corp.

This statutory right to sue is available to you whether or not you relied on the misrepresentation. However, there are various defences available to the persons or companies that you have a right to sue. In particular, they have a defence if you knew of the misrepresentation when you purchased the securities.

If you intend to rely on the rights described in (i) or (ii) above, you must do so within strict time limitations. You must commence your action to cancel the agreement within 180 days after you signed the agreement to purchase securities. You must commence your action for damages within the earlier of 180 days after learning of the misrepresentation and 3 years after you signed the agreement to purchase securities.

The rights of action described above are in addition to and without derogation from any other right or remedy that the purchaser may have at law.





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**CONTACT:**

Charles J. Elbourne, B.Comm., M.B.A.,  
President & CEO

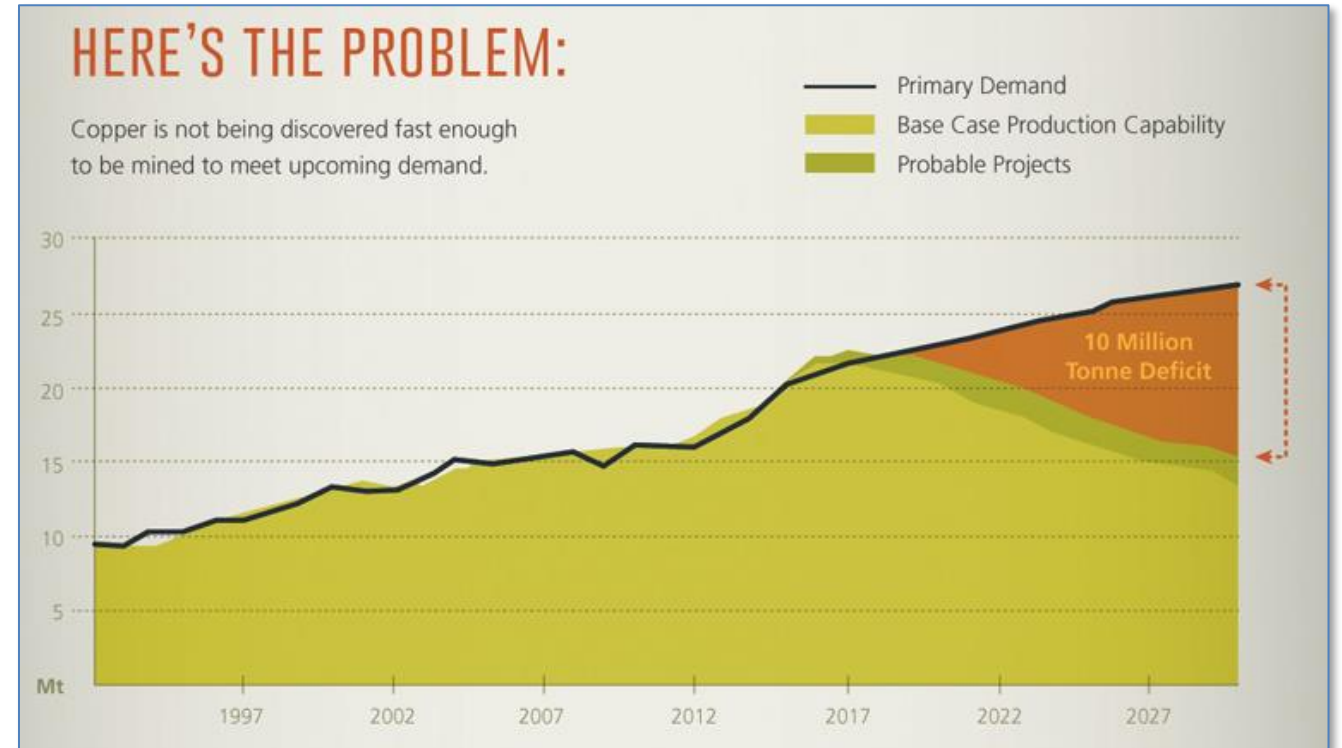
82 Richmond St. East, Suite 401  
Toronto, Ontario M5C 1P1

**Mobile:** 416-315-6490

**Email:** [elbourne007@gmail.com](mailto:elbourne007@gmail.com)



# Appendix A: Copper Supply & Demand



Source: <https://www.visualcapitalist.com/the-looming-copper-supply-crunch/>.



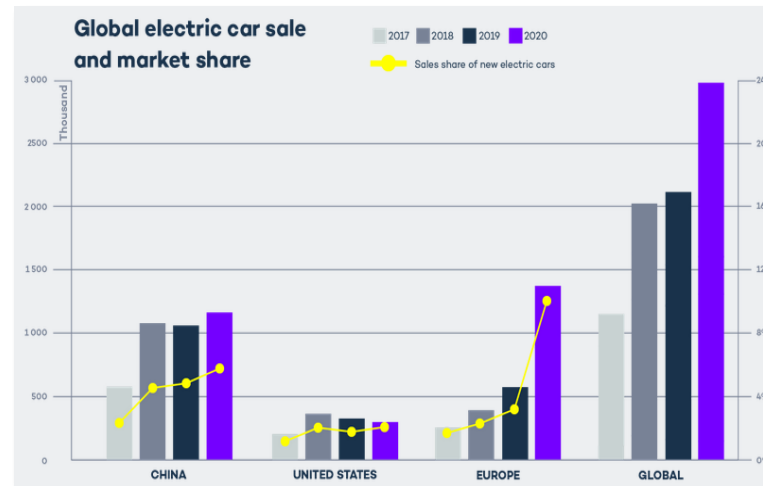
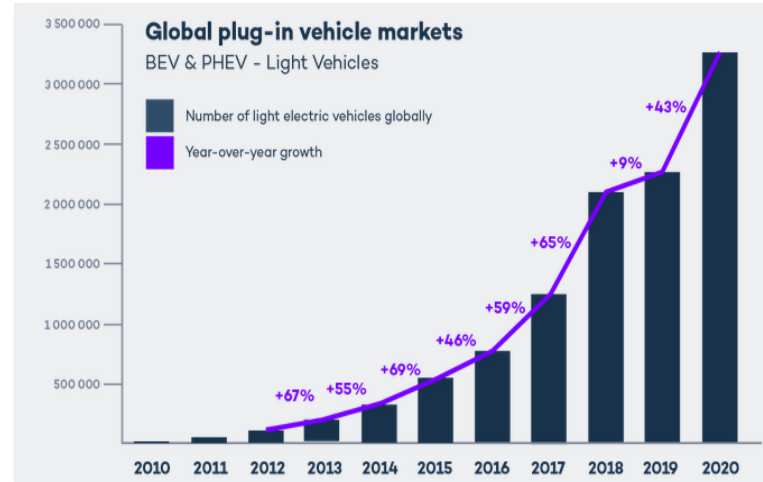
# Appendix A: Copper Supply & Demand

According to the [Copper Development Association](#), 65% of copper demand comes from electrical manufacturing. That means the red metal is in everything—**computers, televisions, mobile phones...not to mention the burgeoning electric vehicle (EV) market.**

Another huge source of copper demand comes from wind power plants. One windmill can use up to 6.4 metric tons of copper/megawatt. With 44,440 megawatts under construction and in advanced development **that adds up to as much as 284,000 metric tons of copper in U.S. wind farms alone.**

[INSIDEEVs](#) reports that more than **1.13 million EV's were sold** globally in Q1 2021. At an average of nearly 185 lbs. per EV, that adds up to about 153,800 metric tons of copper in the first quarter of 2021 alone. **At that rate, a full year of EV sales (4.5 million EVs) will require about 380,000 metric tons of copper – but EV sales are set to increase to 5 million.**

See Appendix B for more on the EV market and the requirement for copper.



Sources:  
<https://www.virta.global/global-electric-vehicle-market>  
<https://www.copper.org/environment/sustainable-energy/electric-vehicles/>



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# Appendix A: Copper Supply & Demand

## Wall Street Journal\* on the Rise of Copper:

- “Investors are piling into wagers on industrial metals like copper and nickel, betting that coronavirus vaccines and stimulus programs will drive a boom in manufacturing activity as part of a global economic resurgence.
- Prices for copper have risen to their highest level in almost eight years...
- Some analysts expect copper prices will eventually rise to around their 2011 record, and investors are betting that vaccine distribution will contribute to that climb. Candice Bangsund, a portfolio manager at Fiera Capital, increased her investment in Canadian stocks this summer to wager on higher commodity prices...
- Tens of millions of dollars have flowed into exchange-traded funds that track copper producers in recent weeks, according to FactSet. Meanwhile, hedge funds and other speculative investors recently pushed net bets on rising copper prices to their highest level since early in 2018, Commodity Futures Trading Commission data show.”

\* Source: [Wall Street Journal, December 6, 2020](#).



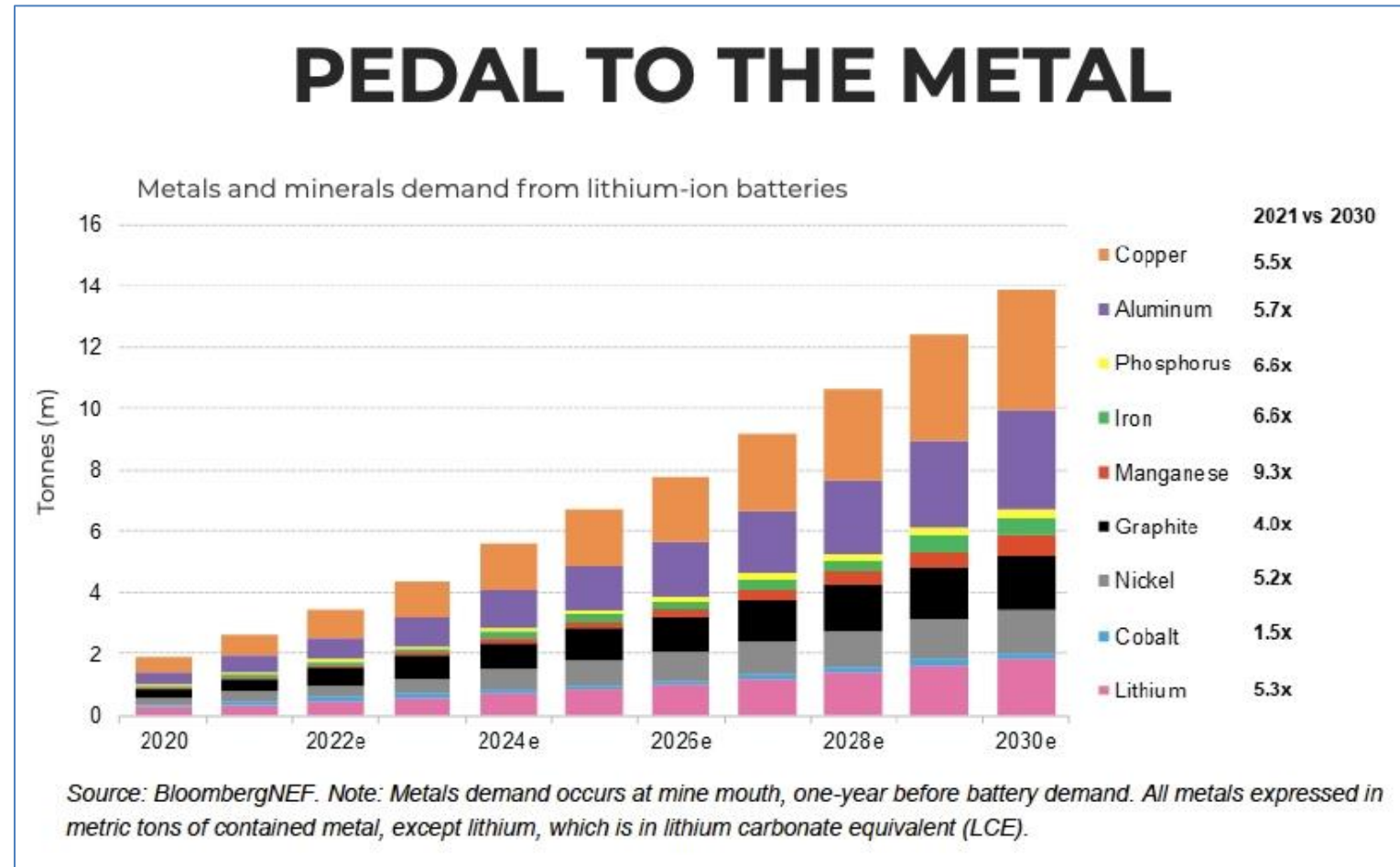
*Bare copper wire bale ready to be sent to the copper mill.*



# Appendix A: Copper Supply & Demand

As electric vehicles supplant gas guzzlers, and solar panels and wind turbines replace coal and oil as the world's most important energy sources, metals like lithium, cobalt and rare earths are on the brink of rapidly accelerating demand, along with more familiar industrial materials like steel and copper.

Source: <https://www.bloomberg.com/graphics/2021-materials-silver-to-lithium-worth-big-money-in-clean-energy>



Source: <https://www.mining.com/chart-study-predicts-over-400-increase-in-copper-lithium-nickel-battery-demand>.



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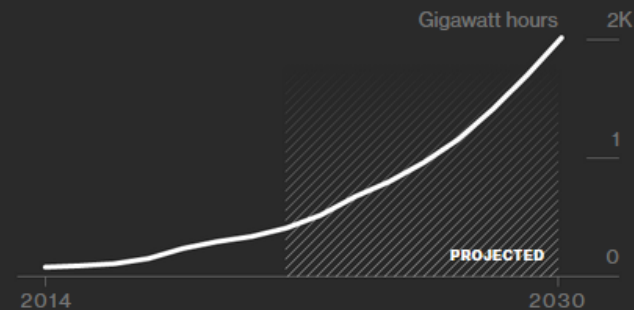
# Appendix A: Copper Supply & Demand

## Lithium-Ion Batteries

KEY METALS AND MATERIALS:

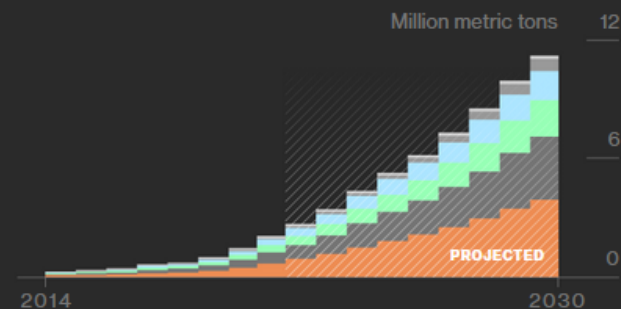
● Copper ● Aluminum ● Lithium (LCE) ● Nickel ● Cobalt ● Manganese

Lithium-ion battery demand



Lithium-ion batteries able to store 1 gigawatt hour of energy require about **729 tons of lithium**, **1,202 tons of aluminum** and **1,731 tons of copper**, according to BloombergNEF estimates.

Total demand for materials



Limited availability of other materials is already threatening the battery sector's ability to keep pace with the EV boom, said Yang Hongxin, general manager of SVolt Energy Technology Co., which has an agreement to supply Jeep-maker Stellantis NV. Lithium chemicals and copper foil are a particular concern, while all key battery metals have seen prices advance since mid-2020.

Source: <https://www.bloomberg.com/graphics/2021-materials-silver-to-lithium-worth-big-money-in-clean-energy>



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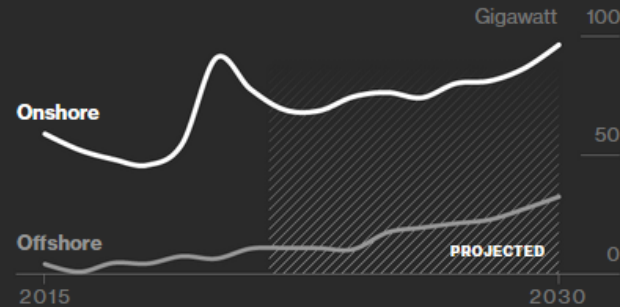
# Appendix A: Copper Supply & Demand

## Wind Turbines

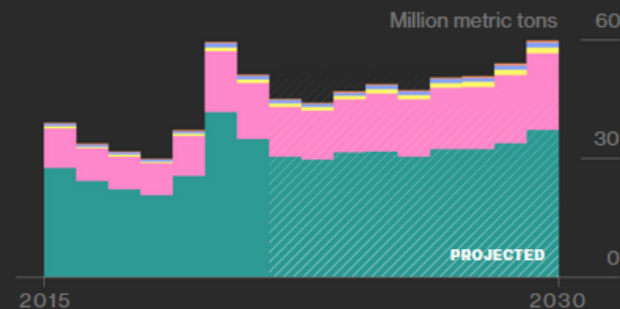
### KEY METALS AND MATERIALS:

Concrete Steel Glass fiber reinforced plastic Electronic scrap Copper Aluminum Carbon fiber reinforced polymers

### Gross capacity additions by technology



### Materials demand



Wind turbines and infrastructure with the power capacity of a gigawatt need about 387 tons of aluminum, 2,866 tons of copper and 154,352 tons of steel, according to BloombergNEF estimates.

Rising cost pressures have begun to impact the roll-out of wind projects, and the expiry of key subsidies in China means capacity additions are forecast to drop this year from a record in 2020, according to the Global Wind Energy Council.

Denmark's Vestas Wind Systems A/S, one of the world's biggest turbine producers, has cut its outlook for the rest of 2021, citing rising raw materials prices and disruptions to supply chains. Prices of steel—a vital ingredient for the skyscraper-sized towers—have jumped in the U.S. this year and also advanced in China and Europe. Even as installations decline from last year's high they'll remain strong and surge again to reach 129 gigawatts by 2030.

Source: <https://www.bloomberg.com/graphics/2021-materials-silver-to-lithium-worth-big-money-in-clean-energy>



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# Appendix B: More on the Electric Vehicle Market

The real development [in the Electric Vehicle (“EV”) market] began when the concept shifted away from Detroit and Tokyo to Silicon Valley in 2003, in the form of a new startup, Tesla (TSLA)... almost a century after the Model T’s debut.

Since then, we’ve seen incredible advances in the technology and an explosion in the offerings of EVs. In the past decade alone, the number of EV models available to North American consumers has jumped from four to 65. In Europe, the number of available models is set to triple by next year. In total, we estimate that **global automakers are planning to launch more than 200 new models in the next three years.**

Right now, we’re at a critical point, where prices of EVs are becoming competitive with regular ICE vehicles. Even without taking into account government incentives to purchase EVs – which has been a huge tailwind for demand – the next generation of this technology will likely be much more affordable than traditional gas-powered vehicles.

Canadian magazine Corporate Knights estimated several factors – including gas prices, electricity cost, annual mileage, maintenance and repair costs (far lower for EVs, with fewer than 20 moving parts versus more than 2,000 for a typical car), borrowing costs, and length of ownership – and concluded that **the electric-powered Nissan Leaf is cheaper to own over a 10 years than a gas-powered Honda Civic and this equation will only get better as the costs of battery technology come down.**



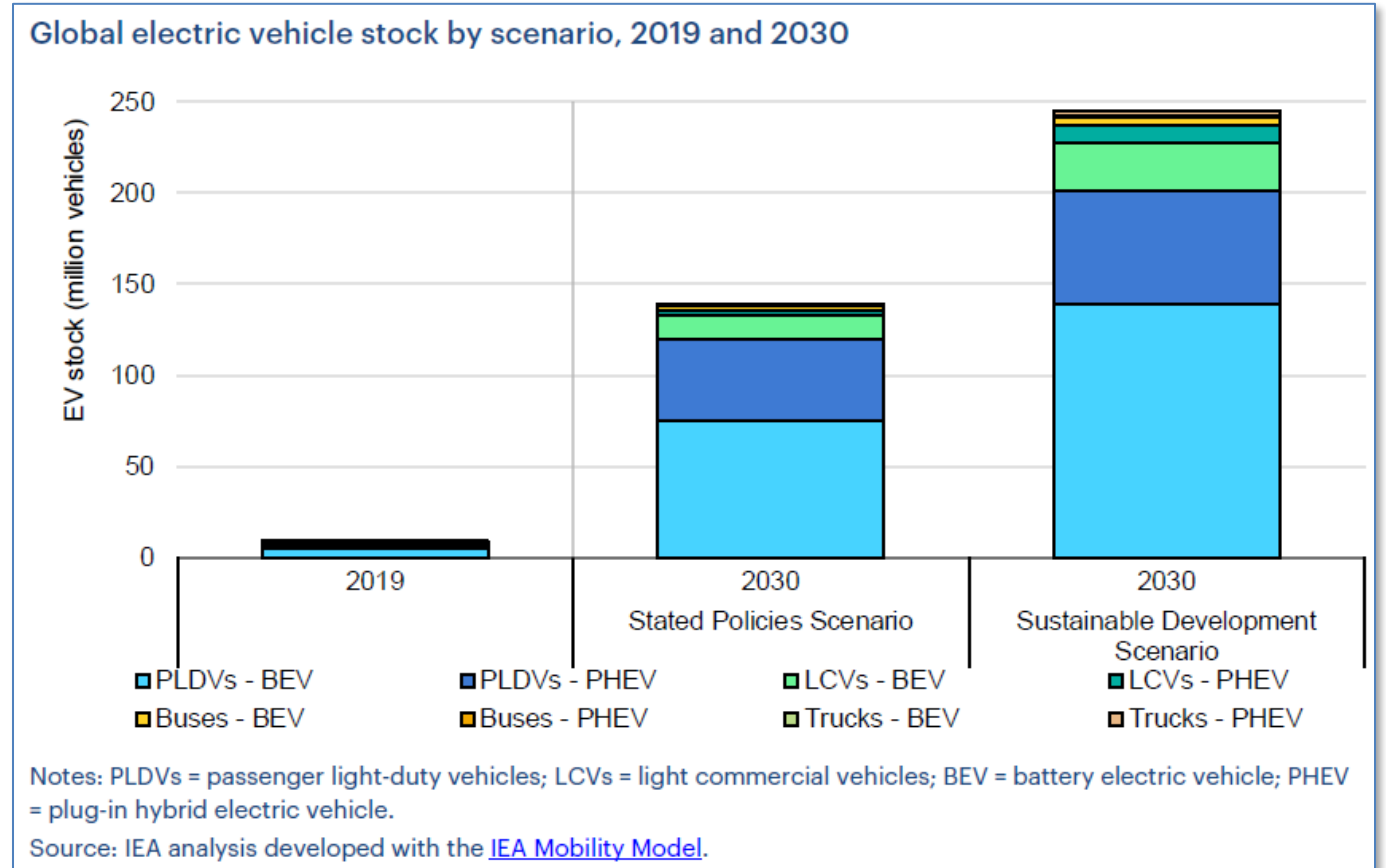


# Appendix B: More on the Electric Vehicle Market

By 2030, the global electric vehicle stock is about 140 million in the Stated Policies Scenario, while the more ambitious Sustainable Development Scenario projects about 245 million electric vehicles.

The Sustainable Development Scenario incorporates the targets of the EV30@30 Campaign<sup>3</sup> to collectively reach a **30% market share for electric vehicles in all modes by 2030**. In this scenario, the global electric vehicle stock grows by 36% annually, reaching **245 million vehicles in 2030 – more than 30 times above today's level**.

The EV30@30 Campaign was launched at the Eighth Clean Energy Ministerial in 2017. The participating countries are Canada, China, Finland, France, India, Japan, Mexico, Netherlands, Norway, Sweden and the UK.

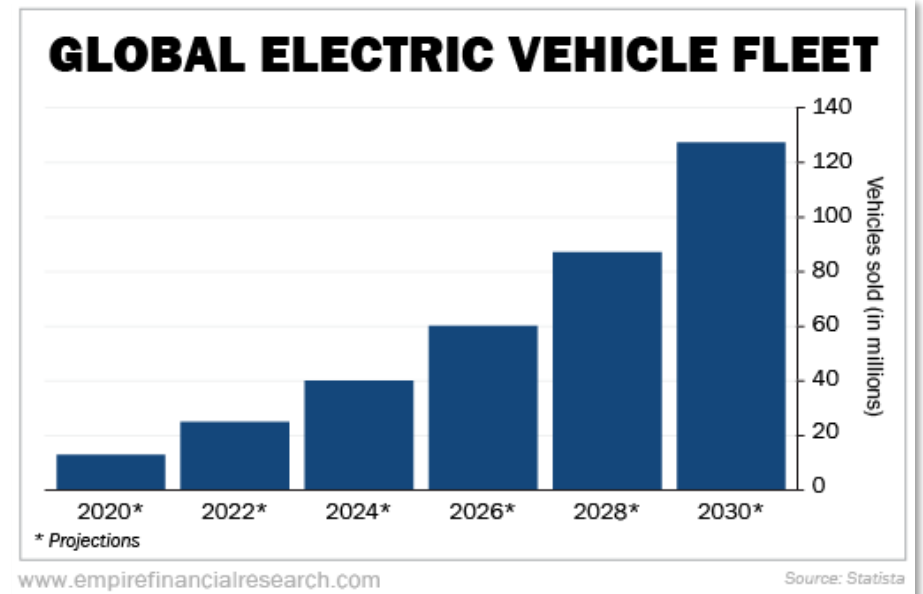


# Appendix B: More on the Electric Vehicle Market

Bloomberg estimates that EVs will account for one-third of all new vehicle sales by 2040. Research firm Statista's estimates are even more aggressive: It predicts that gas and diesel-powered vehicles will fall from 95% global market share in 2017 to only 52% by 2030. In other words, **Statista expects that electric vehicles' share will rise nearly 10-fold, from 5% to 48%, in a little more than a decade.**

- And we aren't the only one's betting on this trend... Retail behemoth Amazon (AMZN) and logistics giant UPS (UPS) have recently placed huge orders for electric delivery vans from American automaker Rivian.
- In the U.S. alone, research from **EVAdoption suggests that EV sales will jump nearly 700% from 2019 to 2028**. The look from a global perspective over the next decade is even more impressive...
- "The European Union is set to propose all new cars sold from 2035 should have zero emissions, as part of an unprecedented plan to align its economy with more ambitious climate targets.
- The European Commission, the bloc's regulatory arm, plans to require emissions from new cars and vans to fall by 65% from 2030 and drop to zero from 2035, according to an EU document seen by Bloomberg News. The tougher pollution standards will be complemented by rules that will oblige national governments to bolster vehicle charging infrastructure."<sup>1</sup>.

1. Source: <https://www.bloomberg.com/news/articles/2021-07-09/europe-to-propose-end-of-combustion-engine-era-in-green-overhaul>





# Appendix B: More on the Electric Vehicle Market

We've seen rapid adoption of technology before. Think about smartphones, for instance. The first real smartphone came onto the market with the launch of the iPhone in 2007.

While it was far more expensive than traditional cellphones at the time, the iPhone was such a huge leap forward that it almost didn't matter. And carrier subsidies mitigated much of the cost differential anyway. Within five years, smartphones dominated the cellphone market.

**Similarly, EVs are a superior technology with rapidly declining prices – and are environmentally friendly to boot! As such, we believe that EVs could account for half of the North American and European car markets much quicker than “experts” currently predict – closer to five years than 10.**

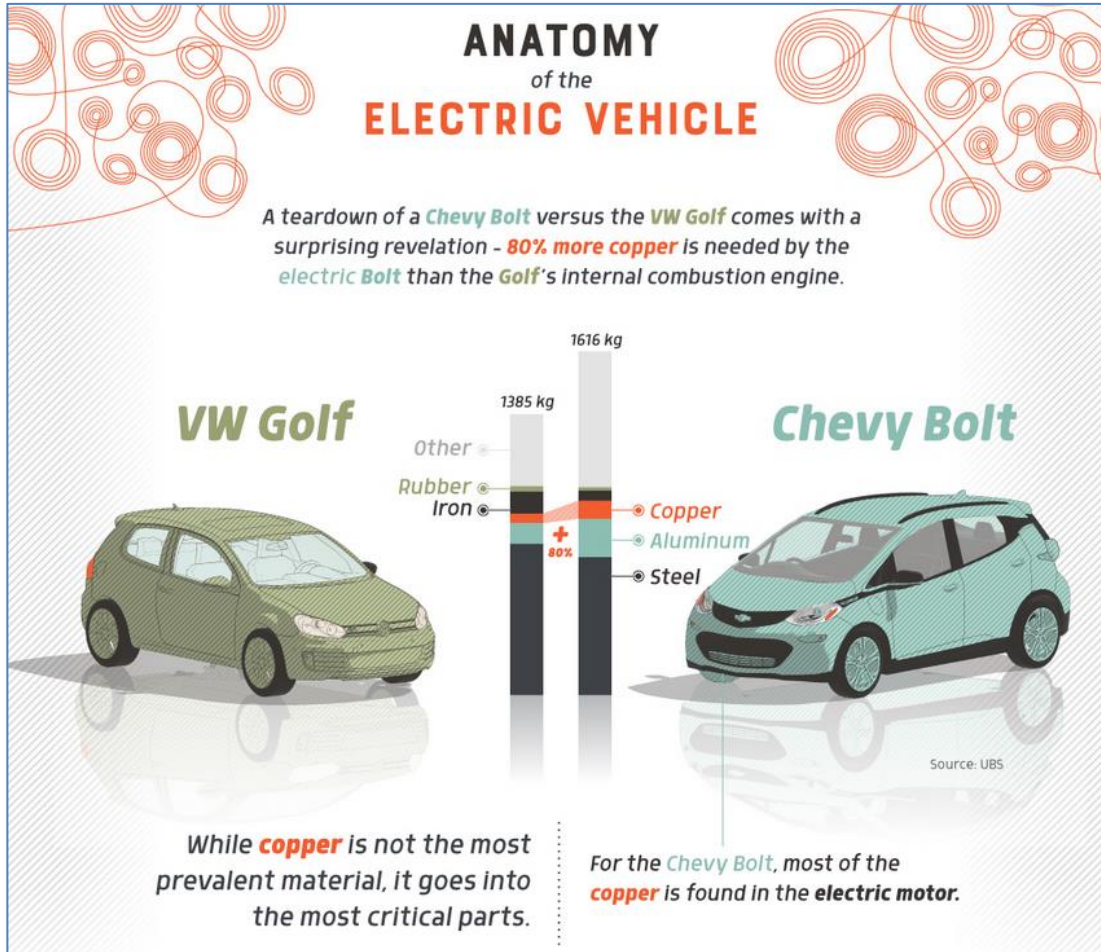
Source: <https://empirefinancialresearch.com/articles/the-two-best-ways-to-play-the-coming-boom-in-electric-vehicles> (paywall).



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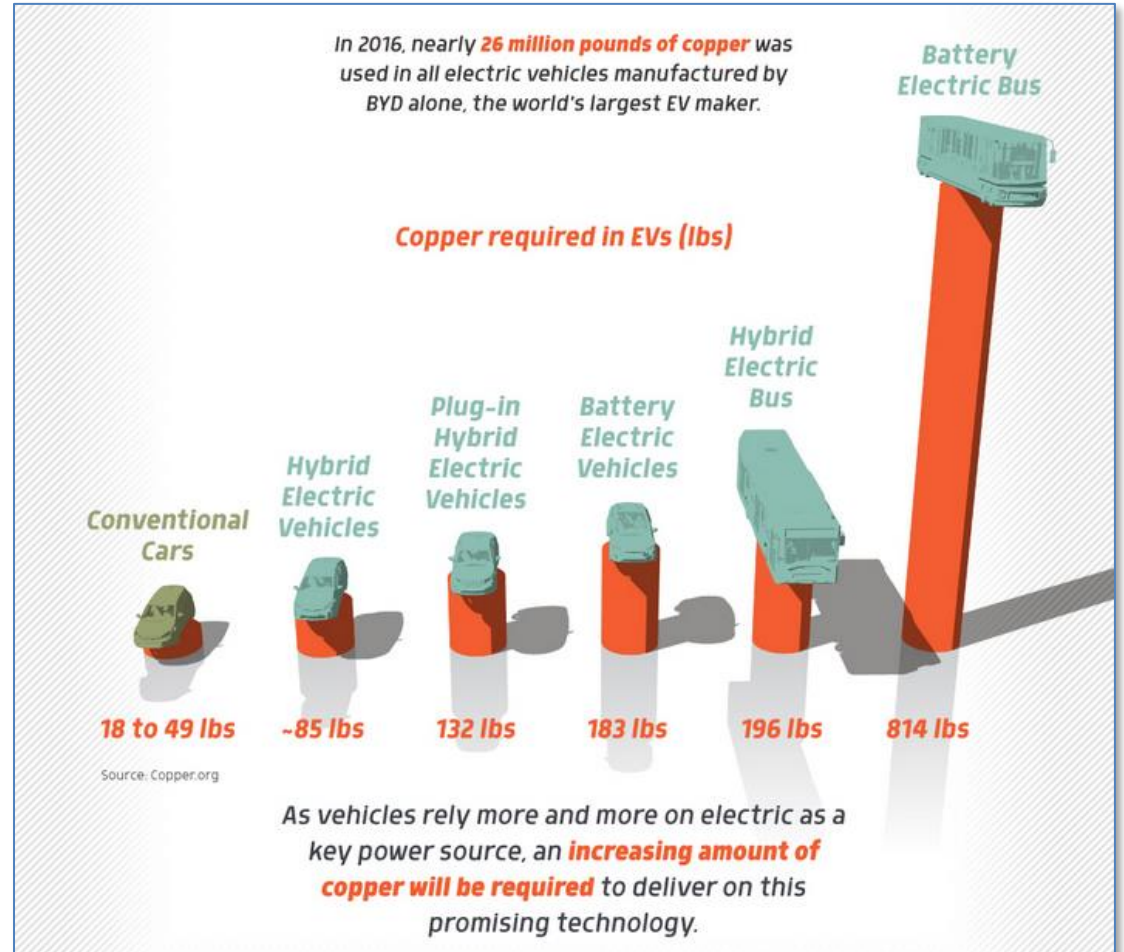
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# Appendix B: More on the Electric Vehicle Market



Source: <https://www.visualcapitalist.com/how-much-copper-is-in-an-electric-vehicle/>

See also: <https://www.copper.org/environment/sustainable-energy/electric-vehicles/>.

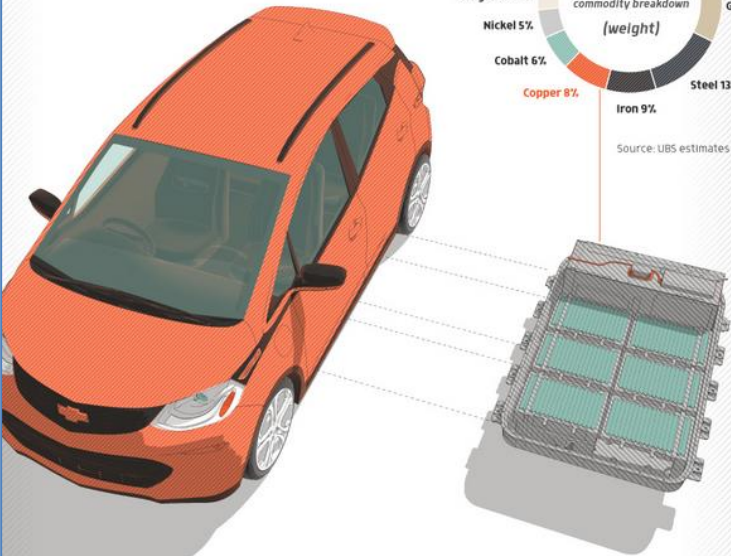
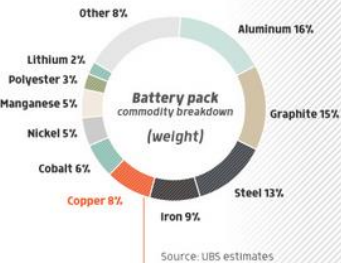




# Appendix B: More on the Electric Vehicle Market

## BATTERY

The Chevy Bolt's power comes from its battery pack, which weighs **906 lbs** (435 kg) and is made up of **8% copper**.

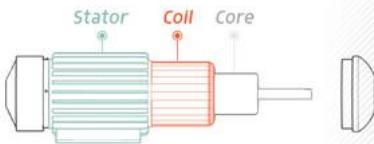


### MORE ELECTRIC, MORE COPPER

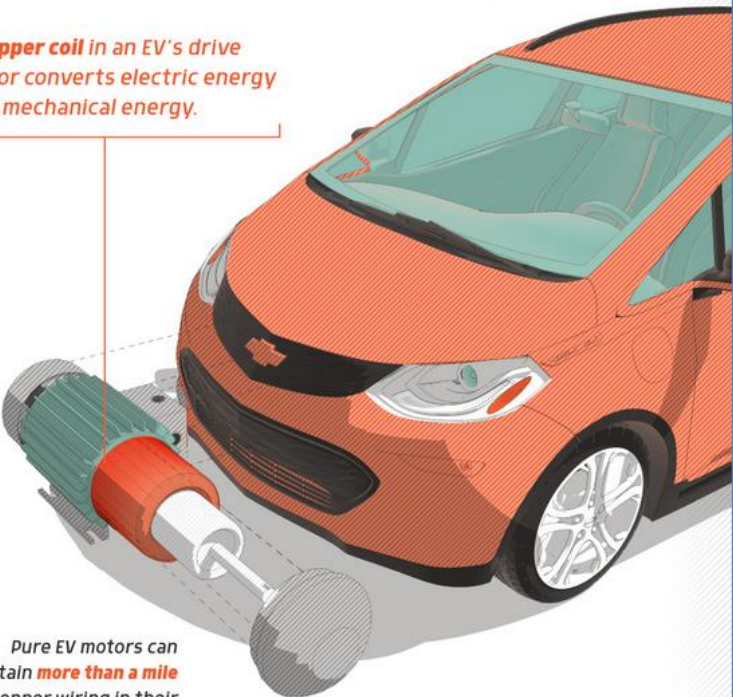
Based on these estimates for the Bolt, in a future where all passenger vehicles sold are electric, **copper** demand would **increase by 22%** compared to current market size.

## MOTOR

Much simpler than a combustion engine, an electric motor only has **three** moving parts.



A **copper coil** in an EV's drive motor converts electric energy into mechanical energy.

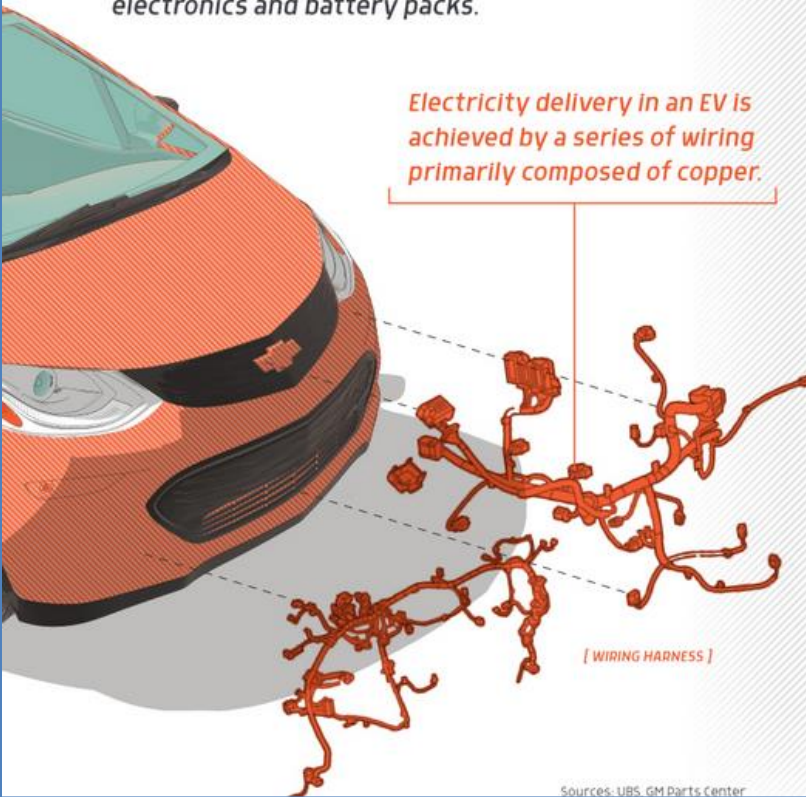


Pure EV motors can contain **more than a mile** of copper wiring in their stator windings.

## ELECTRICAL

In addition to the copper wire in the engine, copper wiring is used to connect the electronics and battery packs.

Electricity delivery in an EV is achieved by a series of wiring primarily composed of copper.



[ WIRING HARNESS ]

Sources: UBS, GM Parts Center

Source: <https://www.visualcapitalist.com/how-much-copper-is-in-an-electric-vehicle/>