



MAYHEW PERFORMANCE Ltd.

CONSULT • DEVELOP • EXECUTE



Projects and Achievements

2020-2022



MAYHEW PERFORMANCE Ltd.
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Why Mayhew Performance?

 Industry Leaders and Subject Matter Experts in Battery Electric Vehicle Technology.

 Over 85 Years of combined experience in Operations.

 Innovation experts in Green Technology and GHG Emissions.

 Sustainable operations with increased Performance and Productivity.

 Timely execution of Projects, Practical and Operational expertise.



Mayhew Performance Projects



Image: Twin Metals, Minnesota, USA

Desktop Study, Twin Metals, USA

Client	Twin Metals
Location	Minnesota, USA
Mine Site	Maturi project
Commodity	Base Metals
Timeframe	2021-ongoing
Nature of Project	Desktop Study and Evaluation for Board Approval
Scope of Work	BEV Desktop Study, Pre-feasibility Study, Risk assessment, Technical and Economical Analysis.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: Detour Mine , Ontario, Canada

Green House Gas Emissions, Canada, Australia

Client	Kirkland Lake Gold
Location	CAN: Detour Lake, Macassa Mine AUS: Fosterville
Mine Site	CAN: Detour Lake, Macassa Mine AUS: Fosterville
Commodity	Gold
Timeframe	2021-Ongoing
Nature of Project	GHG Consultation
Scope of Work	SOW1 GHG Program Audits, SOW 2 GHG Calculation, SOW 3GHG Recommendation to Leadership, and GHG implementation at sites.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: Macassa Mine,
Kirkland Lake, Ontario

Macassa BEV Audit, Canada.

Client	Kirkland Lake Gold
Location	Kirkland Lake, Ontario
Mine Site	Macassa Mine
Commodity	Gold
Timeframe	2021-Ongoing
Nature of Project	BEV Productivity Audit
Scope of Work	Inspection Audit, Performance and Productivity tracking, GAP analysis, Charging audit with cooling system, Operational Recommendations.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: El Teniente, Chile

El Teniente Extension Project, Chile

Client	WOOD/CODELCO
Location	El Teniente, Chile
Mine Site	Andesita, Diamante, Andes Norte, Recursos Norte, Mina Diablo Regimiento Phase 4&5
Commodity	Copper
Timeframe	Q3 2021-Ongoing
Nature of Project	BEV Desktop Study
Scope of Work	BEV Desktop Study, Pre-feasibility Study, Risk assessment, Technical and Economical Analysis, Onsite Workshop Training.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects

KENNECOTT COPPER – Bingham Canyon



Image: Kennecott Copper, Bingham Canyon, USA

BEV/ Railveyor/ Conveyor Desktop Study, USA

Client	Kennecott Copper, RIO Tinto
Location	Utah, USA
Mine Site	Bingham Canyon, USA
Commodity	Copper
Timeframe	2020-21
Nature of Project	Operational Feasibility for BEV, Railveyor and Conveyor.
Scope of Work	Desktop Study for the open pit, Trade-off Study for BEV vs Diesel, and power calculation and assumptions; Material handling and logistics
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: Detour Mine , Ontario, Canada

Enhanced Recycling Program, Canada

Client	Kirkland Lake Gold
Location	Detour Lake, Ontario, Canada
Mine Site	Detour Lake
Commodity	Gold
Timeframe	2021-Ongoing
Nature of Project	Enhanced Recycling Program, GHG Reduction
Scope of Work	Design, Manage and Implement Enhanced Recycling Program. Audits and Reporting on GHG Carbon Footprint reduction at site.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: Nickel Rim South, Glencore, Sudbury

NRS Extension Project, Canada

Client	Vale, Glencore and Hatch
Location	Sudbury, ON
Mine Site	Nickel Rim South(NRS)
Commodity	Base Metals
Timeframe	2022-Ongoing
Nature of Project	BEV Peer Review
Scope of Work	BEV Peer review, Validation of Production Profile for Equipment selection.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects

BEV Operational Feasibility WIPP, New Mexico, USA

Client	United States Department of Energy (DOE)
Location	New Mexico, USA
Mine Site	WIPP Project
Commodity	Nuclear Waste
Timeframe	2021-22
Nature of Project	BEV Operational Feasibility
Scope of Work	BEV Assessment, Audit and implementation including recommendation of new equipment.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.

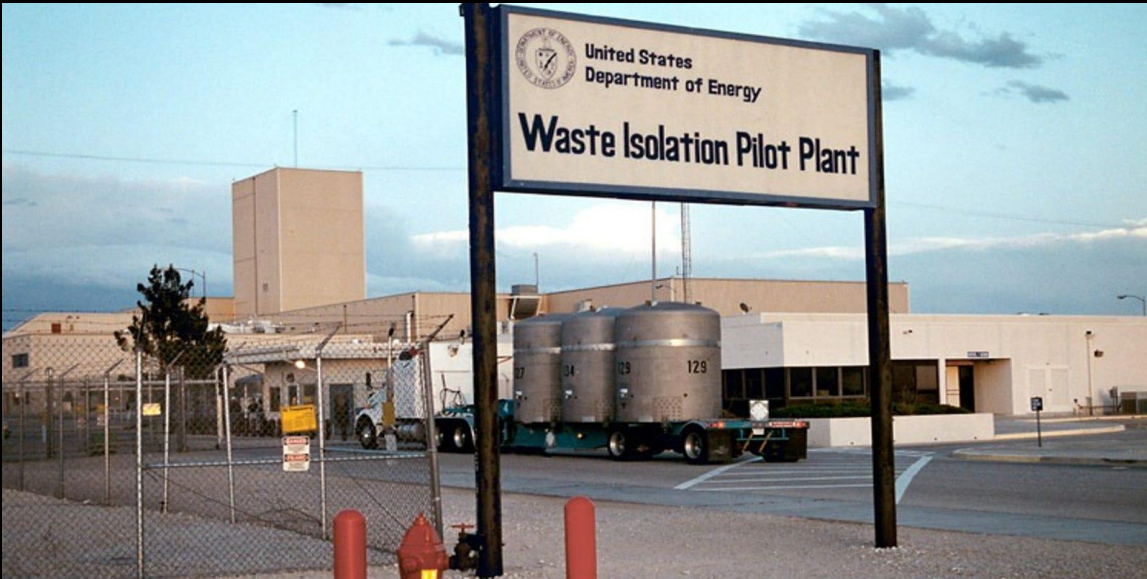


Image: WIPP Project, New Mexico, USA



Mayhew Performance Projects



Image: Nalunaq Project
Nanortalik, Greenland

Nalunaq Desktop Study, Greenland

Client	AEX Gold
Location	Nanortalik, Greenland
Mine Site	Nalunaq
Commodity	Gold
Timeframe	2020-21
Nature of Project	BEV Operational Assessment and mine operation readiness.
Scope of Work	BEV Trade-offs, Operational assessment to return into production.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: SAN Gabriel mine Lima, Peru

Desktop Study, SAN Gabriel, Peru

Client	Buenaventura
Location	Lima, Peru
Mine Site	SAN Gabriel mine
Commodity	Base Metals
Timeframe	2021 Completed
Nature of Project	BEV Desktop Study
Scope of Work	BEV Desktop Study, Pre-feasibility Study, Risk assessment, Technical and Economical Analysis.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



(L: Marcel Levesque R: Shawn Frappier)
Image: Mayhew Performance Head office, Sudbury

Vale BEV Training, Canada

Client	Vale North Atlantic Operations
Location	Sudbury, Ontario
Site	Learning and Development, Sudbury Operations
Commodity	Base Metals
Timeframe	2021-22
Nature of Project	BEV Training Development and E- Learning modules.
Scope of Work	Video Production for BEV General Awareness; Onsite and In-house Training development for Battery Electric Vehicles. (Train the Trainer, E-Learning Modules, Underground Training)
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



(Image: College Boreal, Sudbury)

College Boreal Training, Canada

Client	College Boreal
Location	Sudbury, Ontario
Site	Mayhew Performance Headquarters
Commodity	Education
Timeframe	2020-21
Nature of Project	BEV Training Development and E-Learning modules.
Scope of Work	1 st BEV Training in the world developed by MPL. SOW included BEV General Awareness course development and training College students.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: Nickel Rim South, Glencore, Sudbury

Nickel Rim South BEV vs. Diesel , Canada

Client	Glencore Sudbury Integrated Nickel Operations (INO)
Location	Sudbury, ON
Mine Site	Nickel Rim South (NRS)
Commodity	Nickel
Timeframe	2021-22
Nature of Project	BEV vs Diesel Comparative Analysis
Scope of Work	BEV vs Diesel comparison, data simulation and Validation study and Report findings.
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance Projects



Image: Nickel Rim South, Glencore, Sudbury

Glencore FHP SOP development , Canada

Client	Glencore Sudbury Integrated Nickel Operations (INO)
Location	Sudbury, ON
Mine Site	Nickel Rim South (NRS)
Commodity	Nickel
Timeframe	2021-Ongoing
Nature of Project	Fatal Hazard Protocol – Development of Standard Operating Procedures.
Scope of Work	Standard Operating Procedure development for Tires and Rims, Updating Fatal Hazard Protocols
Technology	MPL and 2 nd Battery Life proprietary Simulation Software.



Mayhew Performance LTD

Services we Provide

- This a detailed description of services we provide.
- For further information, contact us.

MPL Consulting

We provide consulting services which include Front End Decision Process, Feasibility of BEV, Mine Design for effective BEV implementation.

BEV Training

Driving awareness and Education around BEV implementation with Risk Management, Health Care Safety and H&S Safety Training

2B Rosy

Effective Battery Management and fleet utilization

BEV Support

Replacement batteries and chargers, Spare Parts, Business Service & Support Field Service Support

Case studies

We provide Case Studies uniquely designed for your mine

- Desktop Studies
- BEV vs Diesel

MPL Energy Solutions

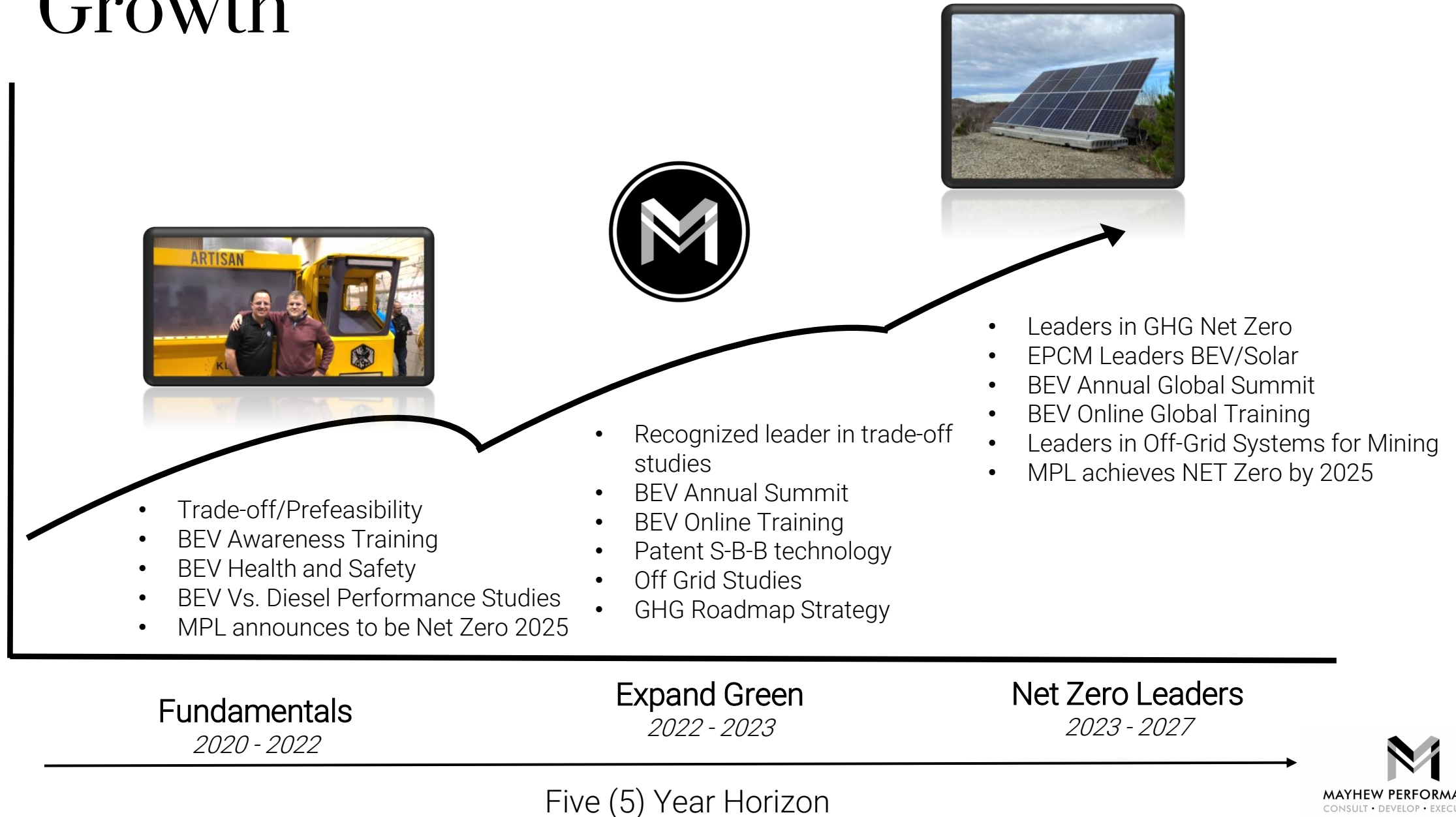
We provide energy solutions uniquely designed for homes/mines which includes Solar energy and Battery Recycling

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Mayhew Performance – Horizons of Growth



Mayhew Performance LTD

Client Testimonials



Kirkland Lake Gold

“Kirkland Lake Gold is proud to be working closely with Mayhew Performance as they continue to expand into the green energy space and supporting KLG vision towards achieving Net Zero by 2050. Mayhew Performance announcement and commitment today to achieve Net Zero by 2025 is a true testament of his actions and leadership”.

Tony Makuch, President & CEO

Twin Metals Minnesota

“Twin Metals Minnesota is committed to reducing our carbon footprint and moving towards Net Zero in order to be a sustainable mining company. We engaged with Mayhew Performance early as the Subject Matter Experts in Battery Electric Vehicles to help us rationalize and prove the business case to allow us to move towards BEV as the mine goes into production. Having MPL as a partner in the study was paramount to our overall decision-making process in moving forward with Battery Electric Equipment for the mine” .

Glenn Barr, Vice President, Project Development



Mayhew Performance Clients



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