

# MAYHEW PERFORMANCE LTD.



## TECHNOLOGY ADOPTION: THE BIG PICTURE

Here we are in 2024, and there have never been so many options on the market for mine electrification and decarbonization.

So, how do you know what's right for your company? And what do you need to know and do to get the best return on investment (ROI)?

### DEFINING THE ROADMAP

- What are your options? For example, all-electric, diesel-electric, hybrid fleet, trolley-assist, off-grid renewable power (e.g., solar, wind, SMRs).
- What enabling technologies and infrastructure are required to make it happen (e.g., communications, data management, electrical infrastructure)
- What technologies available in your jurisdiction align best with your company's overall strategy?

### REGULATORY COMPLIANCE

- Do your jurisdictions's electrical code, transportation regulations, and dangerous goods regulations have the provisions for your new technology?
- Does your technology meet their requirements?
- Are there gaps in the existing regulatory structure?
- What are the reporting and documentation requirements to meet your local code (e.g., project management plan, policies and procedures, risk reviews)?

### PROJECT PLANNING

- Power evaluation: do you have the power capacity to support your new technology? If not, what are your options, and how long will it take?
- What new policies and procedures will you need? How will you need to adapt existing ones for your operations?
- What would a realistic schedule, budget, and implementation plan look like?
- If implementing at an existing site, do you have the resources, infrastructure, and commitment to integrate the new technology?

### TAX CREDITS AND INCENTIVES

- Are there targeted incentives specific to your jurisdiction that will help you offset the costs of your technology adoption project?
- What tax credits can you take advantage of? (e.g., in Canada, the federal Clean Technology Investment Tax Credit and Clean Electricity Investment Tax Credit)
- What other incentives and funding opportunities are available to you? (e.g. in Canada, the Strategic Innovation Fund and the Low Carbon Critical Minerals Fund)

**Need support on your electrification and decarbonization technology adoption journey?**

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