

Responsible sourcing of green energy mineral demands in Canada: circular economy strategies and solutions

*Georgian Triangle Lifelong Learning Lecture
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Overview of key topics

1. *Minerals needs to address the transition to renewable energy systems and economies*
 - Trends in technology, markets and energy systems driving growth in demand for minerals and the potential impacts that could be associated with that growth.
2. *Understanding “Critical Minerals” and their role in the low carbon energy transition*
 - What are critical minerals? Why are they so important? Where are they found? What are the key challenges in bringing them to market?
3. *Circular economy, mining and minerals overview*
 - With the convergence of challenges and opportunities for mining and minerals producers, what is it about integrated, carbon neutral/zero waste circular economy strategies that can help create value and reduce liabilities for companies, governments and consumers?
4. *How circular economy principles can be applied at the mine site and throughout minerals value chains*
 - Where are some specific points of intervention and reform that could reduce waste and carbon throughout the life cycle of minerals?
 - How can these be translated into value creation to incentivize uptake of low impact sustainable solutions?
5. *Some thoughts on priorities for the path forward*
 - What does a realistic, practical roadmap look like to move towards responsibly sourced minerals needed for a green energy future?
 - What kinds of things need to be done by industry, governments and consumers to enable and incentivize the needed reforms?

CE and Minerals Resources

<https://circulareconomyleaders.ca/metals-minerals/>