Make Mining Greener - Life Cycle Assessment of a mining process

Mining industry is trying to lower the environmental impact of its processes aiming at zero fossil fuel consumption in the nearest future.

To achieve this goal Life Cycle Assessment (LCA) has been currently used to calculate the environmental impact of mining processes and identify possible ways of reducing this impact. However, further test cases need to be assessed to obtain a clearer view of the environmental impact of mine processes.

The aim of the project is to:
- Show how LCA can be used to track and calculate the environmental impact of a mining process.

The scope of the project is to:
- Specify the Life Cycle Inventory (LCI) of the system.
- Develop a test case and select the appropriate Life Cycle Impact Assessment (LCIA).
- Perform Life Cycle Assessment (LCA) of a simplified mine using Gabi Software.
- Evaluate the results.

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http://www.gabi-software.com/sweden/overview/videos/