

An aerial photograph of a dense forest of evergreen trees covered in snow. A winding road or path cuts through the center of the forest, curving from the top right towards the bottom left. The overall color palette is monochromatic, consisting of various shades of blue and white.

Industry Decarbonisation

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Topic, Date, Author

Enabling fossil free living within a generation



Hydrogen from electricity will be a key enabler

Chemical reduction



Fuel

Feedstock for plastics



Feedstock ammonia

Fossil free steel with SSAB/LKAB



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Iron ore pellets

Hydrogen

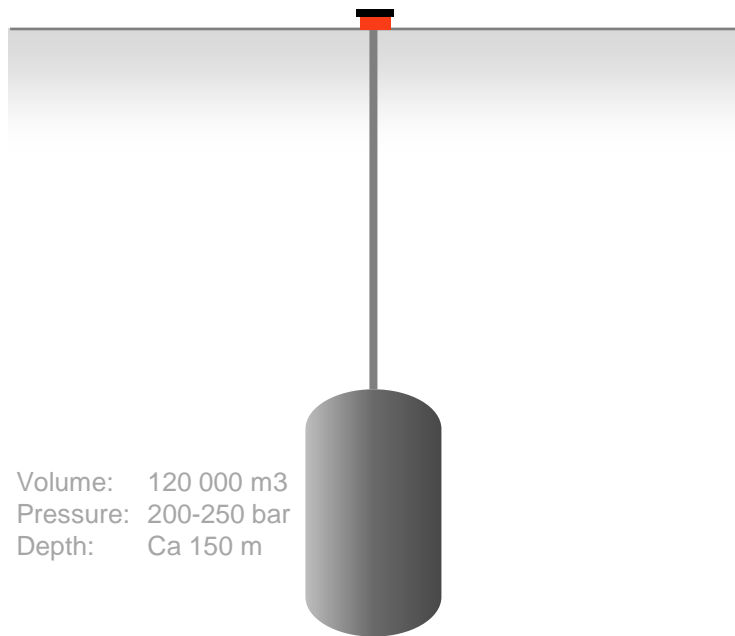
Sponge iron

Water



One H₂ storage equals a million Tesla cars

- and could supply a full-scale steel plant with H₂ for 4-5 days



Volume: 120 000 m³
Pressure: 200-250 bar
Depth: Ca 150 m

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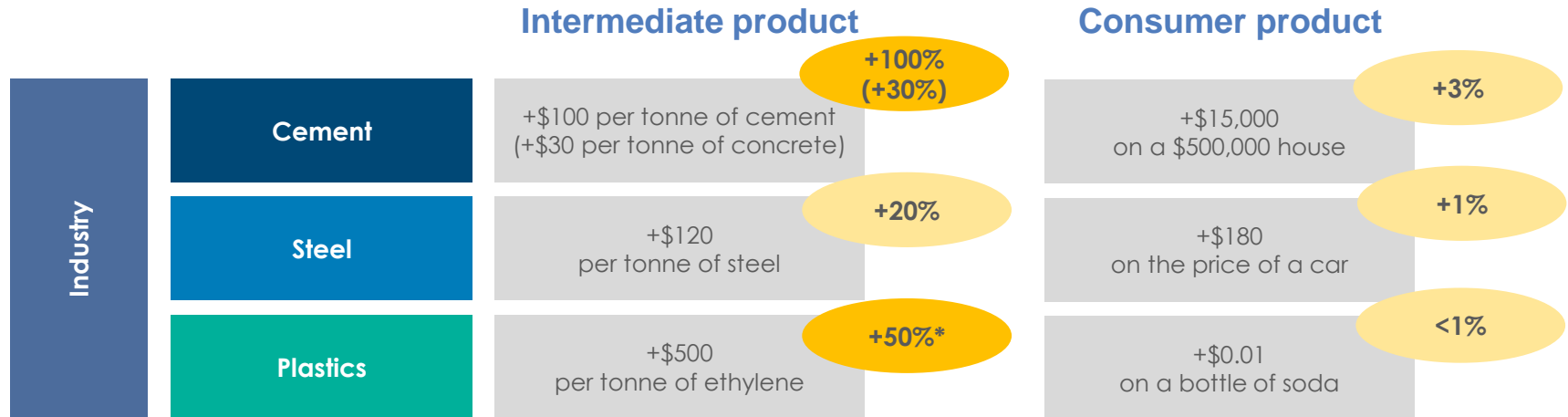


x 1 000 000

A market for green materials likely to happen - before cost parity is reached

Impact of decarbonization on product cost

US\$ / % price increase



Source: SYSTEMIQ analysis for the Energy Transitions Commission (2018)

”The mind is like a parachute – it doesn’t work if it’s not open”
- Frank Zappa

Thank you!

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