

terrestrial mining industry is also needed in order to fully comprehend the risks and benefits of both terrestrial and marine copper mining. Before comparing the Solwara 1 deep seabed mining project with the three terrestrial mines, the following Analysis I examines the potential for displacement of mining with recycling and substitution.

## Conclusions

- 1** Over 7 billion people use copper. It is essential to achieving human development goals.
- 2** Copper is vital for producing numerous forms of electrical power, clean water, and technology.
- 3** Terrestrial copper mining has significant social and environmental impacts. Risks of terrestrial mining include displacement of communities, water contamination, and damage to downslope communities from waste rock and tailings.
- 4** The concentration of copper in terrestrial ore deposits is declining. This decline is increasing financial, social, and environmental costs associated with production, on a cost-per-metric ton basis.

▼ Offshore windmills  
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