

Vale's Base Metals Video Series

Video 2: Sustainability

Video	Audio/Narration
Announcer intro over graphic title: VOG:	Vale's Base Metals Business Series — Focusing on Sustainability
We see historic images, early humans in process of mining, refining metals, beautiful metal work from Bronze Age, etc.	Mining has played an integral role in the development of societies for thousands of years.
See the earth	When mining first began, our Earth seemed unlimited and its capacity to adapt seemed endless.
See dissolve through to "new" green Sudbury See family moment... Vale worker with children	Now we know better. We see that our world is a small planet. We know that mining must be a sustainable enterprise. We are Vale... and we are transforming mining to leave a better world to our children and our children's children.
See Vale moment of social engagement, especially aboriginal children	Vale is committed to meeting the needs of the current generation without compromising the needs of future generations.
See Vale operations b-roll	We manage our businesses to produce local, regional and global prosperity, while we create a positive social, economic and environmental legacy. Being a sustainable operator at each location where we operate in the world is one of our top priorities.
See large pile of raw ore See efficient mining methods	The environmental and energy demands of mining and processing metals are enormous. That's why we're investing in energy efficiency and acting to reduce our greenhouse gas emissions.
See ship See train See hydro dam	Vale is a leader in the mining industry, developing more energy-efficient mining methods, greener vessels and more renewable energy sources.

Video 2: Sustainability (cont'd)

Video	Audio/Narration
<p>See flash furnaces and roasters, emphasize scale of the challenge</p> <p>See scrubbers, fluid-bed roaster</p> <p>See sulphur</p>	<p>The refining process turns raw ores into the metals that people need. This process requires the use of intense heat, chemical reactions and water. We are proud of our stewardship of the environment throughout the mining and refining process. In Canada's Sudbury region, we've already reduced our sulphur dioxide emissions by more than 90%. New initiatives in this area are contributing to an additional 85% reduction in Vale's emissions across Canada.</p>
<p>See Sudbury greenhouses, aerial seeding in more depth</p> <p>ADD: some froth flotation footage?</p>	<p>We scrub, capture and convert sulphur dioxide into marketable products.</p> <p>We are researching and developing cleaner, greener and safer chemicals for use in our mineral extraction stage. These green chemicals are already being tested at Clarabelle Mill in Sudbury.</p>
<p>See mine planning process... engineers focusing on restoration planning</p> <p>See restoration etc, in Indonesia or Goro, tbd</p> <p>See aerial seeding</p> <p>See communities, green events, etc.</p> <p>Add stills from Sossego as available</p>	<p>At each of our global locations, our mine management plans include comprehensive environmental measures, as well as the restoration and rehabilitation of any disturbed areas.</p> <p>The dramatic reductions we've made in emissions have set the stage for further reclamation activities.</p> <p>Our pioneering techniques include processes like the aerial seeding of land not accessible by traditional means.</p> <p>We develop simple but effective processes like covering exposed mine tailings with straw to limit dust. Tailings can also be combined with concrete and re-used in back filling mined areas.</p> <p>At our copper mine in Sossego, Brazil, we developed a successful water recirculation system to optimize the use of water resources. Today, Sossego recycles 96% of all water used.</p> <p>Educating our employees and encouraging environmentally responsible actions continues to be key to our sustainable operations.</p> <p>We believe we all must play our part in re-greening the world.</p>

Video 2: Sustainability (cont'd)

Video	Audio/Narration
See society and links to mining, emphasize windmills, hybrid cars	At Vale we know that the materials that come from mining will play a fundamental role in clean energy, economic growth, and a positive environmental legacy.
Overview images of Vale global perspectives	<p>Vale's Sustainable Development Policy guides our actions based on three principles: we will be a Sustainable Operator. We will act as a Local Sustainable Development Catalyst. And we will be agents for Global Sustainability.</p> <p>Vale has been chosen as one of the top 25 sustainable value creators in the world, based on our performance over the last 10 years.</p> <p>We are global advocates for ethical practices in business, respect for the environment, and the quality of life in the regions where we operate.</p>
Environmental beauty shots	<p>Vale is committed to constantly searching for new and better ways to preserve the balance between human progress and the natural environment.</p> <p>...because our planet deserves to be cared for and respected.</p>
Title rundown: videos 2-8	To learn more about how we are transforming mining please watch the other videos in this series.
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