



FutureSmart Mining™

Mining with purpose

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FutureSmart Mining™

Our innovation-led blueprint for the future of our business, integrating technology and sustainability



Concentrate
the Mine

Greater precision with
minimal energy, water and
capital intensity



Water-less
Mine

Reducing dependence on
water, towards full recovery
recycling and dry tailings



Modern
Mine

Developing a new
generation of engineered
controls to reduce the
exposure of people to risk



Intelligent
Mine

Transforming data into
predictive intelligence,
leading to safe, fully
integrated, optimised and
self-learning operations



Carbon
Neutral Mine

Reducing dependence on
fossil fuels through new
technologies and
developing new regional
energy ecosystems



Trusted
Corporate Leader



Thriving
Communities



Healthy
Environment

Redefining the baseline

Bulk Ore Sorting

Coarse Particle Recovery

Advanced Process Control

nuGen™

VOXEL™ data analytics

nuGen™

Zero Emission Haulage Solution

- Developed world's largest hydrogen powered mine haul truck, including associated refuelling infrastructure
- Delivered at Mogalakwena in Q4 2021 & commissioned Q2 2022
- Scale up to 2024, with expected electrolyser capacity above 100 megawatts

Key benefits

- 900,000 litres of diesel saved per truck, per year
- 2MW of which 1.2MW is battery; 800kW fuel cell
- 50% to 70% reduction in emissions (scope 1 and 2 for open pit mines), while maintaining operating cost structure
- Enables new local economies and job opportunities

Rollouts

- nuGen™ ZEHS project to be deployed at four mine sites by 2030

To come...

- H2 & battery energy capability within a green ecosystem
- Energy management
- Commercial offering
- Industry diversification



Carbon Neutrality Vision 2030



Renewable Energy
Ecosystems

Globally Significant Carbon
Sequestration

Methane Emissions Abated

Product Value Chain
Emissions Reduced

Clean Mobile Fleets

Technical innovation unlocks optionality



Pushing the boundaries further



Fast rock cutting



nxGen leaching



Carbon Sequestration?

Discussion





Thank You