



Industrial Tech for Sustainable IMPACT

Life Is On

Schneider
Electric

05 White goods

More than 75% of fridges sold in Australia are now stainless steel.

Mining makes the difference possible

Approved by New Open PPM Approval

Australian Mining

Metals used: Fe, C, Zn, Ti, Cu, Al, Fe, Cr, Si, C, Ni, Mn

Lead back index

Lead back index is a measure of the amount of lead in a product. The lower the index, the less lead is in the product. The lead back index is a measure of the amount of lead in a product. The lower the index, the less lead is in the product.

20 Film & television

Mining makes the difference possible

The top grossing Australian feature film movie in the 1980 film, Crocodile Dundee.

Australian Mining

Metals used: Si, Sn, Ta, W, Al, Zn, Ti, Cu, Au, Sn, Sb, Cu

Fully during film the world's first

Lead back index

Lead back index is a measure of the amount of lead in a product. The lower the index, the less lead is in the product. The lead back index is a measure of the amount of lead in a product. The lower the index, the less lead is in the product.

01 Electricity

Electricity travels at around 90 per cent of the speed of light.

Australia's energy powerhouse

Australia's energy powerhouse is a result of its abundant coal reserves. The country's energy sector is a major contributor to its GDP. The country's energy sector is a major contributor to its GDP.

Australian Mining

Metals used: C, U, La, Y, Tb, Fe, Cu, Al, Ga, Ce, Eu, Tb, Fe, W, Cr

29 Windfarms

More than 250 tonnes of steel is required to build a wind turbine.

Mining makes the difference possible

Wind power across Australia

Wind power across Australia is a result of its abundant wind resources. The country's wind sector is a major contributor to its GDP. The country's wind sector is a major contributor to its GDP.

Australian Mining

Metals used: Fe, Nd, B, Dy, Fe, C, Li, Ni, Mg, Co, C, V, Mo, Zn, Cu, Si, Al

Mining, minerals & metals are the foundation of progress and sustainability for all

09 Your house

Mining makes building your dream home possible

Almost half of all new homes built in 2018 were apartments.

Australian Mining

Metals used: Fe, Cr, Mo, Mn, Ni, Ti, Mg, Zn, Ca, Pb, Sn, Al

Houses are shrinking (x 10)

Houses are shrinking (x 10) is a measure of the amount of space in a house. The lower the index, the less space is in the house. The houses are shrinking (x 10) is a measure of the amount of space in a house. The lower the index, the less space is in the house.

21 Meat & veggies

Mining makes healthy living possible

Around 20-40% of 'ugly' fruit and veg is rejected before it reaches the supermarket.

Australian Mining

Metals used: P, N, K, S, Fe, Fe, Cr, Si, C, Ni, Mn, Cu, Co, Se, Mg, Mn, Zn

Made fresh in Australia

Made fresh in Australia is a measure of the amount of fresh produce in a country. The higher the index, the more fresh produce is in the country. The made fresh in Australia is a measure of the amount of fresh produce in a country. The higher the index, the more fresh produce is in the country.

16 Batteries

Mining makes energy technology possible

95% of cobalt, lithium and graphite in batteries can be reused.

Australian Mining

Metals used: Zn, Mn, K, Ag, Li, Co, Ni, Pb

Battery powered technology

Battery powered technology is a measure of the amount of energy stored in a battery. The higher the index, the more energy is stored in the battery. The battery powered technology is a measure of the amount of energy stored in a battery. The higher the index, the more energy is stored in the battery.

08 Solar panels

Mining makes renewable energy generation possible

Solar PV accounts for around 3.5% of Australia's total electricity generation.

Australian Mining

Metals used: Cd, Te, Mo, Be, Ge, Ga, In, Ag, Si, B, P, Cu, Al, Ti, Zn, Mg

Solar energy power generation

Solar energy power generation is a measure of the amount of energy generated by solar panels. The higher the index, the more energy is generated by solar panels. The solar energy power generation is a measure of the amount of energy generated by solar panels. The higher the index, the more energy is generated by solar panels.

The Equation for the Future

$$\begin{array}{l} \text{Digital} \\ \text{Automation} \\ \text{Software} \\ \text{Data} \end{array} + \begin{array}{l} \text{Electric} \\ \text{Energy} \\ \text{Decarbonization} \end{array} = \underline{\text{Sustainable}} \begin{array}{l} \text{Green and Smart} \end{array}$$

Contribute to progress and build sustainable Mining, Minerals and Metals with **digitally integrated** power and process

Average Industries

- Challenge to respond to criticality of minerals*
- CO2 emissions
- Cost pressure
- Workforce shift
- Lack of data on energy usage/CO2

Smart & Green Essential Resources

- Accelerate tech: digitization, automation, electrification to:
 - Support world *minerals-intensive* energy & digital transition
 - Accelerate decarbonization
 - Improve efficiency and resiliency
 - Manage change

Impact

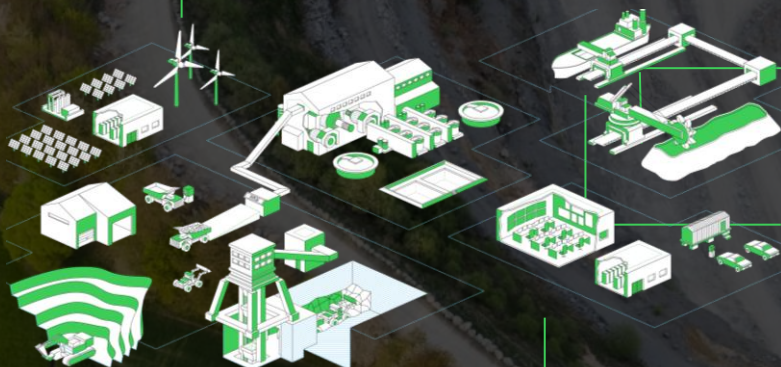
Double	digit growth in productivity
10%	energy efficiency improvement
+30%	value chain efficiency
50%	average emissions reduction

Decarbonization. Accelerate “green sustainable processes” through **digitally integrated solutions** combining **unified electrification** and **advanced automation strategies**, leveraging digital energy, ESS, renewables and **microgrids**

Asset efficiency. Reduce costs and get closer to nameplate capacity for improved profitability with **Integrated Operations Center**

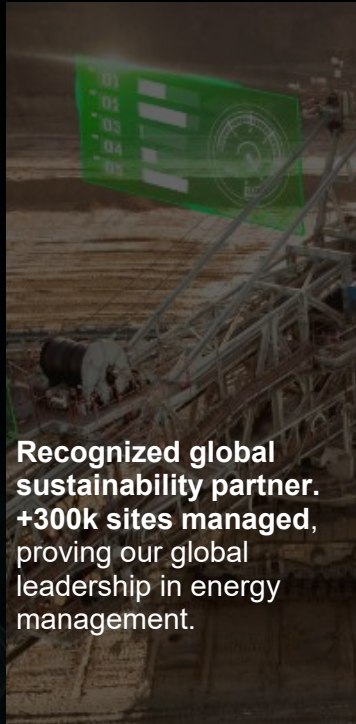
Optimized value chain. Increase value chain visibility and agility to boost resiliency and responsiveness to critical minerals demand with **integrated value chain visualization-automation - electrification**

Empowered workforce and change mgt. Retain knowledge and eliminate info silos for better decision making with **secure digital collaborative tools**



*Challenge to respond to increasing minerals demand required for the digital net-zero economy. 6X growth in critical minerals by 2040, result of low-emission technologies required globally across all industries. Expected supply constraints by 2025 highlights the criticality of supply chain

Why Mining, Minerals and Metals players **partner with us?**



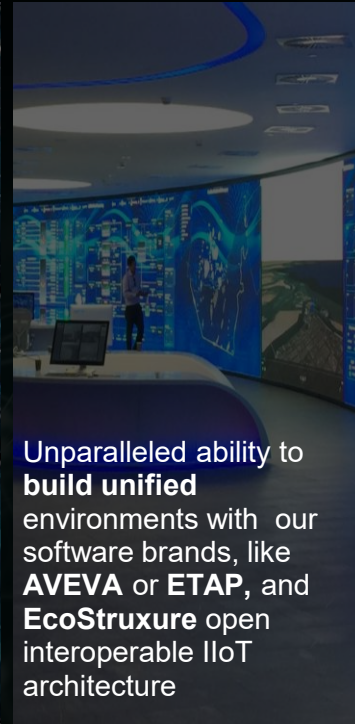
Recognized global sustainability partner. +300k sites managed, proving our global leadership in energy management.



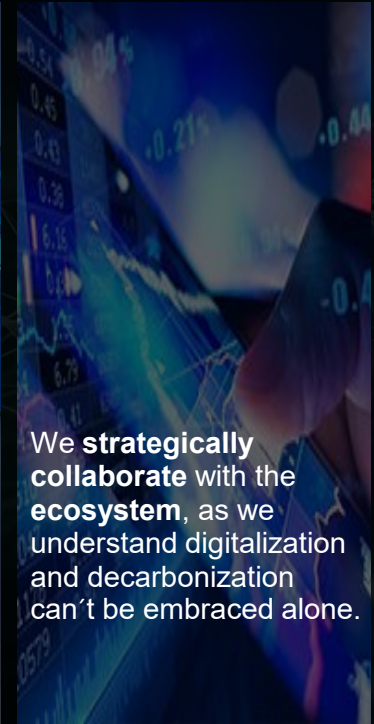
9/10 largest mining, minerals and metals companies globally, already benefit from our deep industry knowledge and focus on the core processes that matter the most to them



Unrevealed capabilities to integrate power and process along an unified MMM value chain, from planning to maintenance.



Unparalleled ability to build unified environments with our software brands, like AVEVA or ETAP, and EcoStruxure open interoperable IIoT architecture



We strategically collaborate with the ecosystem, as we understand digitalization and decarbonization can't be embraced alone.

Schneider in the Mining, Minerals & Metals industry at a glance

We have been a trusted partner in the MMM industry for the past 50 years and work with the following key players:

The logo for BHP, consisting of the letters "BHP" in a bold, orange, sans-serif font.The logo for RioTinto, featuring the word "RioTinto" in a red, serif font.The logo for GLENCORE, featuring the word "GLENCORE" in a black, serif font.The logo for HEIDELBERGCEMENT, featuring the word "HEIDELBERGCEMENT" in a green, sans-serif font.



Make the most of integrated
power, process, and automation
digital environment for
sustainable and **efficient** unified value chains
in mining, minerals and metals

Ecostruxure™
Innovation At Every Level

Let's talk about
for Mining, Minerals & Metals

Life Is On

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Electric

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Schneider
Electric