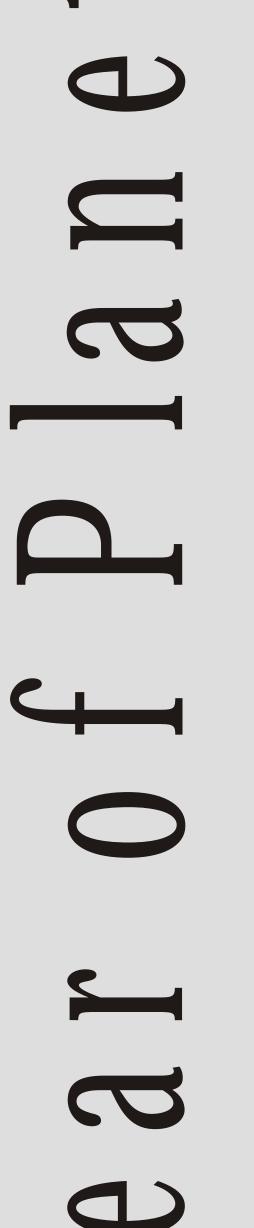


## Resources sustainable power for sustainable development

Nearly everything we make or build, and nearly all the energy we use, comes from out of the Earth. Modern society is increasingly dependent on mineral and energy sources. They are nonrenewable, they differ in their availability, in the cost of production and in geographical distribution.

The last century saw the industry that finds and produces non-renewable resources evolve from being dominated by minerals to one increasingly concerned with oil and gas. This has made the resources industry a major player in influencing national economies in both developed and developing countries.



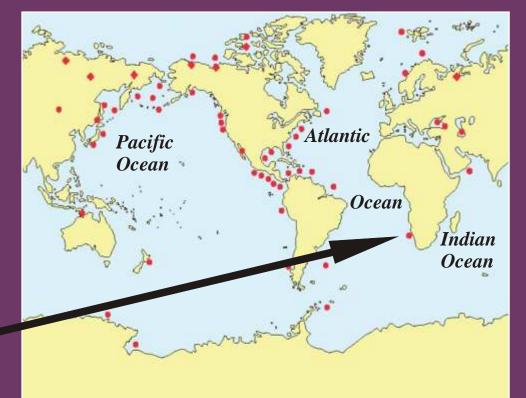
3



Some of the more than 200 mineral species described from the world-famous Tsumeb copper-lead mine (now defunct) are found nowhere else in the world

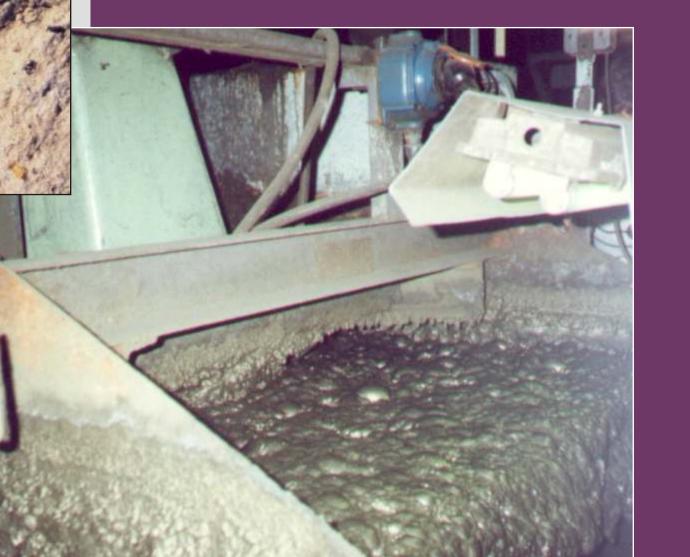
> Modern society is increasingly dependent on dwindling mineral and energy resources



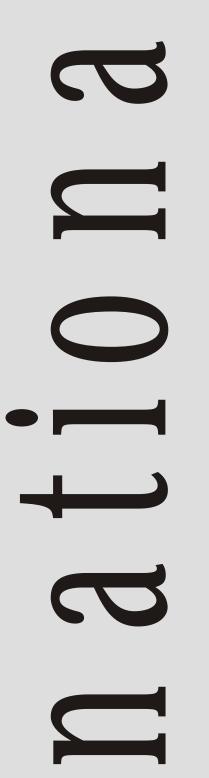


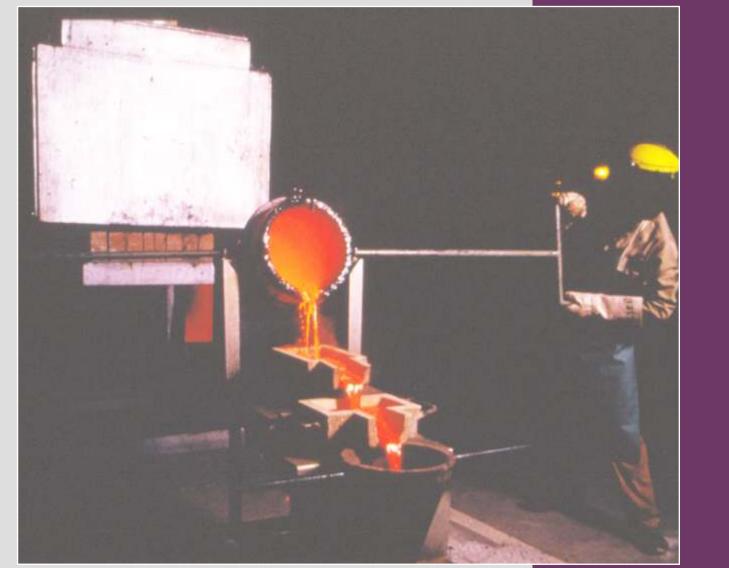
Known and inferred occurrences of gas hydrate: Namibia's Kudu gas field could become a major contributor to the country's energy supply

Uranium mineralization (carnotite) at Langer Heinrich Mountain in the Namib Desert (left)

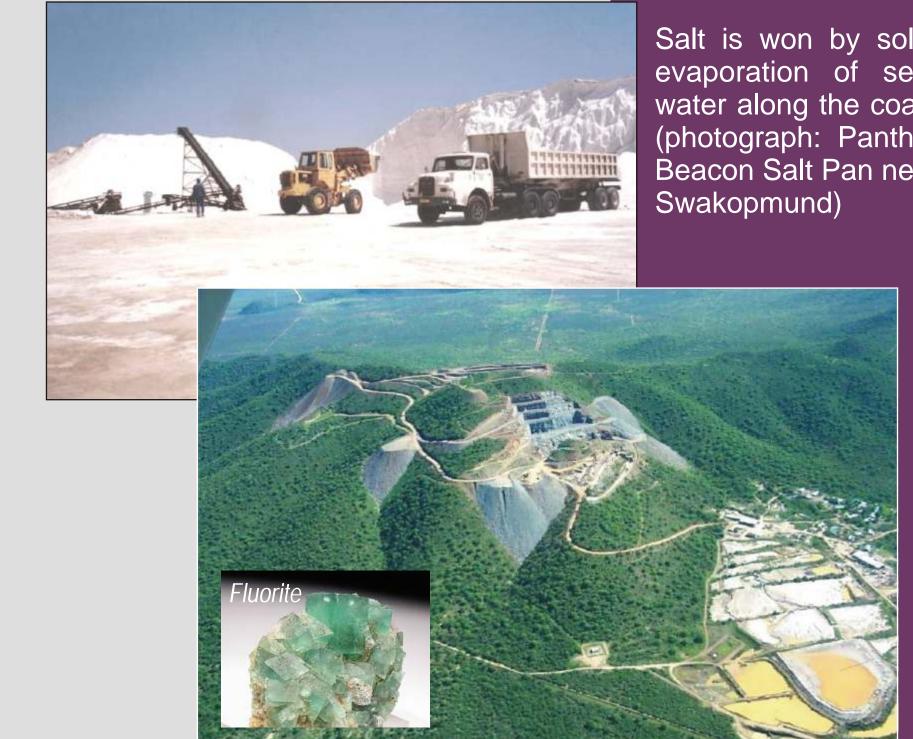


## Metallurgical processing of copper ore (Otjihase Mine)





Navachab Gold Mine: after the gold has been leached from the ore (3 g/t) the molten metal is formed into gold bars



Salt is won by solar evaporation of seawater along the coast (photograph: Panther Beacon Salt Pan near

Although hydrocarbon exploration has been taking place in Namibia for more than a decade, and with the planned development of the Kudu gas field off the southern Namibian coast is looking towards its first major success, the country's economy still relies greatly upon its conventional minerals resources. Among these alluvial diamonds, largely of gem quality, play the most important role, but there is also a host of other commodities like base and precious metals, semiprecious stones, industrial minerals and dimension stone, some of which have been discovered and exploited by the indigenous population long before colonial times. Records of commercial exploration and mining date back more than a 100 years and cover a significant part of Namibia's economic and social history. During recent years the industry has experienced another upswing, and exploration for mineral resources is being actively carried out by local and foreign companies, thereby creating work and reducing poverty. The increased demand for uranium as an energy source over the last couple of years has encouraged intense exploration in this field and already led to the development of a new open cast mine in the Namib Desert.





Namibian gems: diamonds are the most valuable asset of the country's mineral industry, but Namibia is also well-known for its wide range of semi-precious stones, like tourmaline and amethyst



Tourmaline



Okorusu Fluorite Mine near Otjiwarongo



**(C)** Compiled by Ute Schreiber & Gabi Schneider (Geological Survey of Namibia), Printing funded by Geological Society of Namibia



Namibia also boasts a remarkable variety of dimension stones whose subtle and unique colours are well sought after on international markets

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