



# Muchea Silica Sand Project



Laying the foundations for a sustainable silica sand products manufacturing industry in WA

## A world-class resource

VRX Silica Limited, a Perth-based ASX listed company, is developing the high-grade, long-life Muchea Silica Sand Project 50km north-east of Perth; as well as other silica sand projects in the Mid West. VRX is pursuing the establishment of a glass-making facility in Western Australia to produce specialist glass for use in solar panels, LCD screens and other high-tech products. This globally scarce silica resource will support the establishment of new local downstream industries, which will trigger significant investment and job creation.



## Downstream processing

- Muchea is one of the few world-class silica sand projects with an outstanding grade of +99.9% silica dioxide ( $\text{SiO}_2$ ). This level of purity is needed to meet demand in the booming ultra clear, solar panel flat glass industry. Once operational, Muchea will open up the Gingin-Muchea communities to a new mining and manufacturing export opportunity for more than 25 years.



## Proximity to high-quality silica, reliable energy and infrastructure

- The manufacture of solar panel flat glass requires two key inputs: a reliable energy source and high-purity silica sand. Muchea is located close to gas pipelines, the proposed Mid West renewable energy hub, rail access and major road corridor Brand Highway. VRX is also exploring the use of hydrogen and renewable energy to power Muchea once operational.

Silica sand is the second-most consumed material on earth after water



# Silica sand is a critical raw material for more than 800 everyday products



## Filtration

- Food and beverage
- Pharmaceutical
- Biofuels



## Glass

- Solar panel flat glass
- Automotive glass
- Smartphones and tablets
- Fibreglass
- Container glass



## Building products

- Cement
- Grouts and mortar
- Quartz countertops



## Additives/fillers/extenders

- Cosmetics
- Paper and plastics
- Paints and coatings
- Rubber & epoxies



## Chemicals

- Silica-based chemicals
- Ceramics
- Sodium silicates
- Silicon carbide



## Absorbents

- Automotive
- Accidents and spills
- Pet litter



## Pool/recreation

- Golf sand
- Pool filtration
- Sports fields



## Other uses

- Foundry sand
- Forensic testing
- Wind turbine blades

## Critical to the global decarbonisation effort



### Ultra-high purity, low-iron silica sand is a key component in

- Solar panel glass
- Fibreglass composite



### Solar panel flat glass

- Ultra high-grade, low-iron silica sand is needed to produce glass that effectively transmits the sun's energy to solar panel cells



### Wind turbine blades

- Specialty silica sand is a critical component in the fibreglass used for wind turbine blades



### Lower auto emissions

- Ground silica sand is used to produce particulate filters for both petrol and diesel engines



### Clean-burning diesel

- Silica sand is a key processing aid in the production of green diesel



### Feeding the planet

- Silica sand is a crucial component for bleaching clay absorbents and filter aids needed to meet stringent food safety requirements

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