

kg Sand

Sand is comprised of small particles of quartz (silica), feldspar and calcium carbonate from various forms of life that have been eroded down over thousands of years. It is strong, durable, chemically inert and has excellent drainage characteristics.

It is commonly extracted through open pit mining and is available in many different grades and levels of purity. Due to the extended period of time required to create sand, it is considered a non-renewable resource.

Sand can be used as a substrate for footings, pathways, and concrete slabs. It is also used as an additive in concrete, mortar, asphalt, and various exterior finishes. It is one of the primary materials used in the production of silicon for various construction products.

Category Sand, stone and ceramics

Type Other minerals

Functional unit kg

Specific heat 830 J/(kg·K)

Density 1 500 kg/m³

Common uses

Landscaping, concrete slabs, material additive, external finishes

Process name

Sand, at mine/CH U/AusSD U

Input-output sector

Non Metallic Mineral Mining

Further information

doi.org/10.26188/5da5574945e6e

TOP THREE INPUTS

6.8% Exploration and Mining Support Services

4.5% Diesel, burned in building machine/GLO U/AusSD U

1.9% Coal mining

TOP THREE INPUTS

1.5% Exploration and Mining Support Services

0.6% Agriculture, Forestry and Fishing Support Services

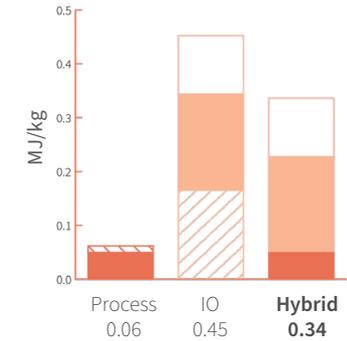
0.4% Electricity Transmission, Distribution, On Selling and Electricity Market Operation

TOP THREE INPUTS

10.6% Exploration and Mining Support Services

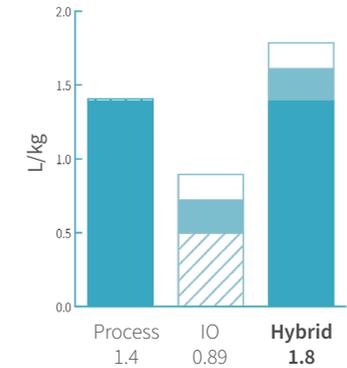
4.7% Diesel, burned in building machine/GLO U/AusSD U

4.0% Coal mining



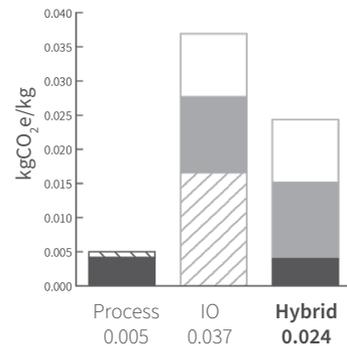
ENERGY

0.34 MJ/kg



WATER

1.8 L/kg



GREENHOUSE GAS EMISSIONS

0.024 kgCO₂e/kg