

concrete recycling factory



What is concrete recycling?

It is the process of reusing concrete waste from demolished concrete structures. It is an alternative to landfill disposal of concrete waste. Recycled concrete can be used to make new concrete, road foundations, or other construction items.

How many times can you recycle concrete?

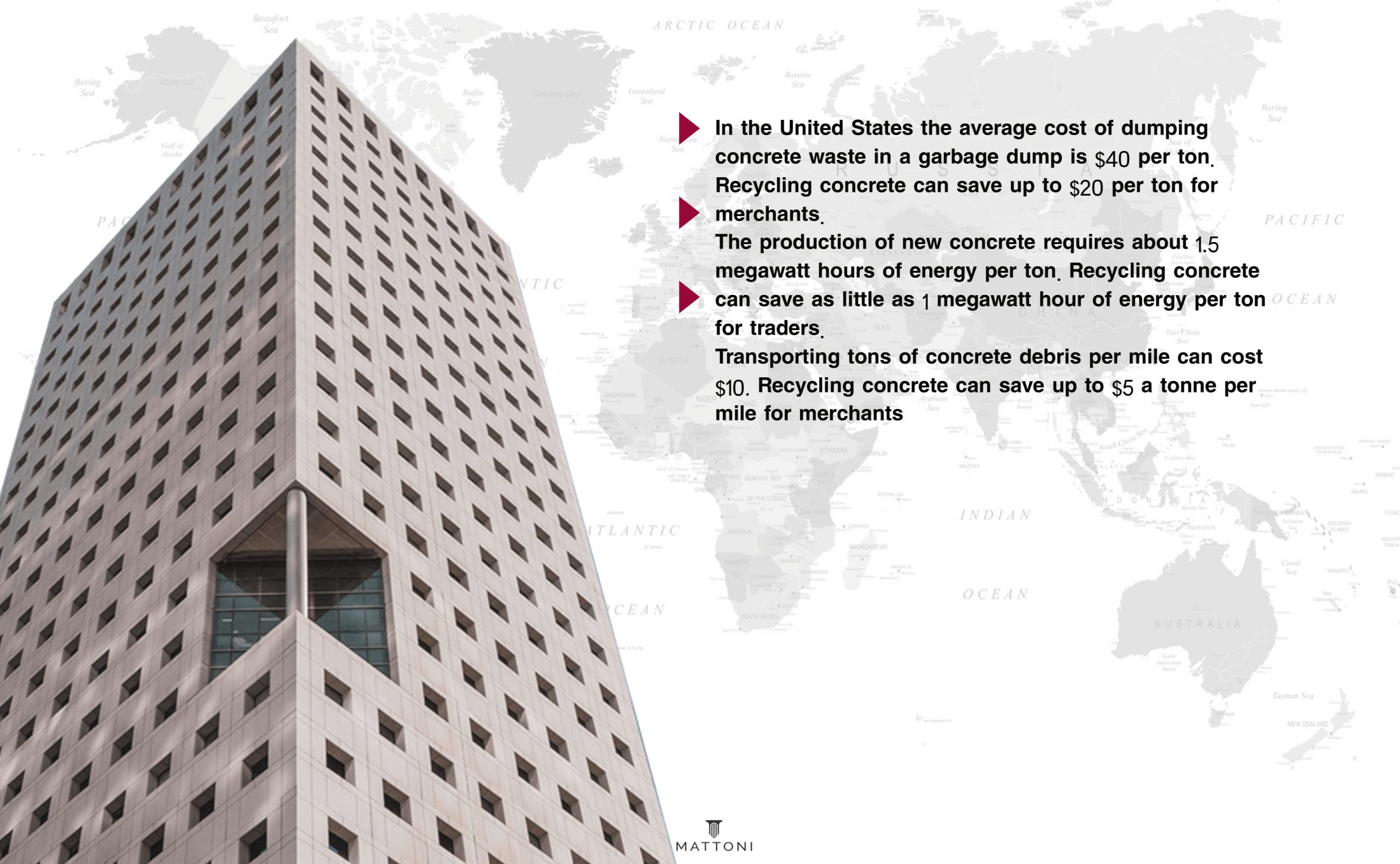
In general, concrete can be recycled up to (5) times without significantly affecting the strength or durability of the new concrete. However, there are some factors that can affect how often concrete can be recycled, such as the type of concrete, the amount of recycled aggregate used and the way the concrete is processed.



The economic benefits of recycling concrete



Some examples of the economic benefits of recycling



- ▶ In the United States the average cost of dumping concrete waste in a garbage dump is \$40 per ton. Recycling concrete can save up to \$20 per ton for merchants.
- ▶ The production of new concrete requires about 1.5 megawatt hours of energy per ton. Recycling concrete can save as little as 1 megawatt hour of energy per ton for traders.
- ▶ Transporting tons of concrete debris per mile can cost \$10. Recycling concrete can save up to \$5 a tonne per mile for merchants

What recycled concrete can be used for



The process of recycling concrete



The tools that are needed for recycling.

1. Magnetic devices

Price: 30,000\$
Width: 0.3-0.6 m
Length: 0.6-1.2 m
Height: 0.4-0.6 m



2. Screening machine

Price: 30,000 \$
Width: 0.6-1.2 m
Length: 1.2-1.8 m
Height: 0.9-1.2 m



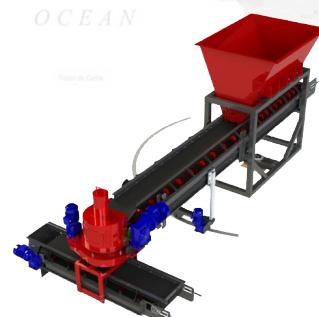
3. Breaking device

Price: 60,000\$
Width: 0.6-1.2 m
Length: 1.2-1.8 m
Height: 0.9-1.2 m



4. Transportation equipment

Price: 30,000\$
Length: 0.5-1 m
Width: 1-2 m
Height: 0.6-1 m



5. Washing machine

Price: 10,000\$
Length: 0.5-1 m
Width: 1-1.5 m
Height: 0.7-1 m

