

Solar power generation wire rope

Why did wire rope transmission lose the fight against electricity?

Wire rope transmission lost the fight against electricity, mainly because the power network became ever more centralised-- ever larger power plants would send their power over ever larger distances, which could not be bridged efficiently by wire ropes.

What is a wire rope?

In the 1830s, mining engineer Wilhelm Albert twisted together several strands of metal wire around a hempen core, resulting in a superior hoisting cable for use in vertical shafts. Compared to a fibrous rope, a wire rope is much stronger, despite being the same weight and diameter.

Does rope transmission have a place in our energy systems?

The trend towards small-scale, decentralised power production means that rope transmission might have a place in our energy systems. In spite of these drawbacks, power transmission by ropes might have a place in our energy systems. Today, there is a trend towards small-scale, decentralised power production, based on renewable energy sources.

When was wire rope invented?

The use of wire rope for power transmission over long distances was invented by the Hirn brothers in 1850, while they were setting up a weaving factory in an abandoned textile works near Logelbach, Switzerland. The buildings were scattered over considerable distances and setting up multiple steam engines would have been too expensive.

Can a solar rope construction system be used for car parks?

A model of a solar rope construction system for a car park. A further possible application of the system is the use as sun protection for car parks. So far complete systems cannot be distributed yet though, only patent rights and know-how.

What is wire rope transmission?

Conceptually, wire rope transmission simply extended the range of millwork by improving its efficiency and flexibility, and by making it weather-proof. Rope transmission started in the 1840s as an element of millwork, using fast-spinning fibrous ropes as an alternative to belts transmitting power from the prime mover to the line shafts.

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