

Could solar power power iron ore smelting be a viable alternative?

It may allow commercially viable solar powered iron ore smelting once further developed. The researchers state heliostats (mirrors) can reflect sunlight directly into a furnace, making it up to 80 per cent energy efficient. This is a big step up from steam-powered electricity generation that is just 10 - 15 per cent energy efficient.

How does a solar-powered ironing cart work?

The energy can be stored in a battery to provide power on cloudy days. The cart also has a coin-operated cellphone and a cellphone charging point where people can pay to recharge their phones to supplement vendors' earnings. Umashankar and her solar-powered ironing cart are now getting global recognition.

Can solar-powered clothes irons clean up dirty city air?

A teen in India has come up with an ingenious way to clean up dirty city air: solar-powered clothes irons. Street vendors typically use charcoal to power their irons, but using solar energy instead would reduce costs and pollution.

Should India use solar power to iron clothes?

Street vendors typically use charcoal to power their irons, but using solar energy instead would reduce costs and pollution. On India's residential streets, amid the tea vendors and vegetable sellers, ironing "wallahs" press clothes each day for millions of Indians, smoothing out wrinkles with iron boxes packed with hot charcoal.

How much energy does it take to make iron?

The temperatures needed to produce iron from iron ore need to reach between 1,000 and 1,500 degrees Celsius. That requires an enormous amount of energy. According to Low-Tech Magazine, it takes 20-25 megajoules (5,550 to 6,950 watt-hours) to produce one kilogram of iron from its ore.

Can a wheeled cart power a steam iron?

It is just one of several national and international prizes Vinisha has won for her innovation: a wheeled cart equipped with solar panels and batteries sufficient to power a steam iron. Panels on the cart's roof produce solar power that can be used immediately as the cart wends its way between customers or stored in four batteries, Vinisha said.

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In 2019, the then-tween spent months researching college-level physics to learn about solar panels. She sketched a design for a bicycle car with solar panels to power a steam ...

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14-year-old TN girl wins Children's Climate Prize for designing solar-powered ironing cart Vinisha Umashankar, a class IX student in Tiruvannamalai bags the prestigious ...

Based on the interest and above view point researcher selected the area of solar energy. This paper on "Designing and Evaluating the Performance of Solar Powered Iron Box" briefly describes the design and ...

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