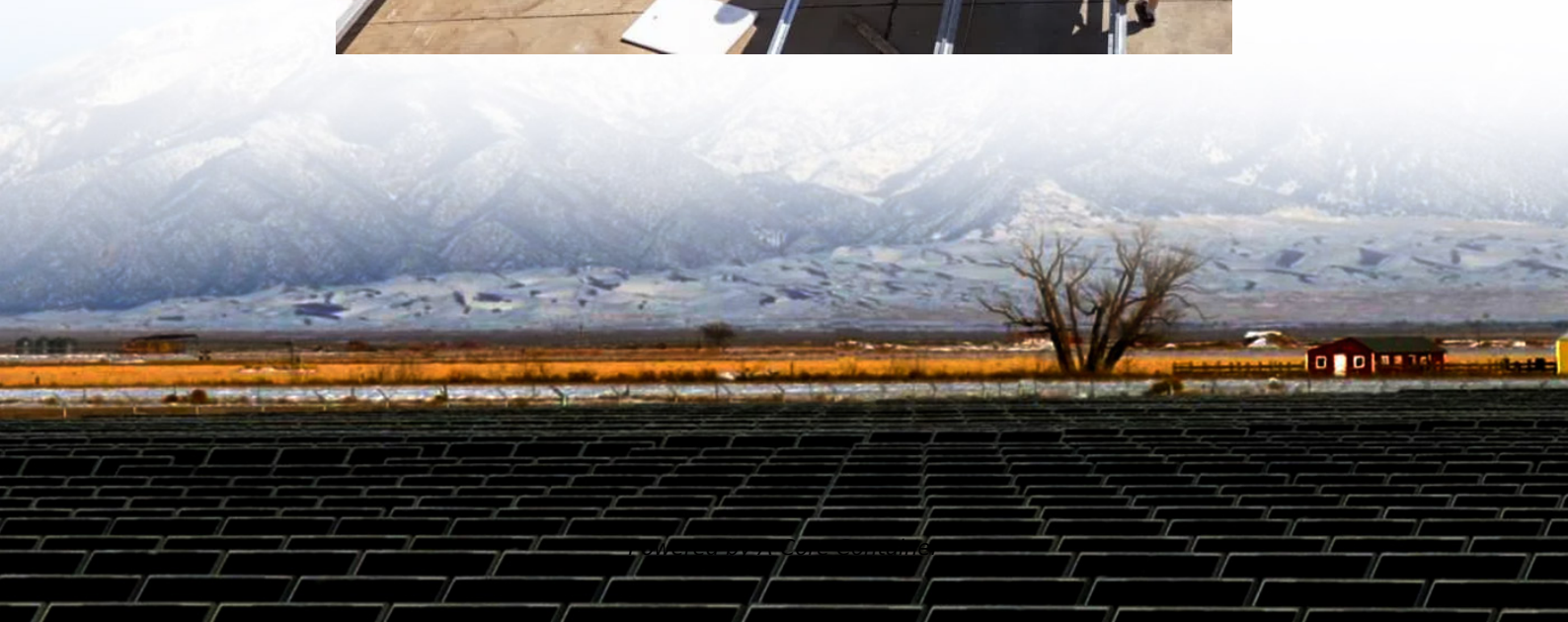


A-Core Container

Forging Plant Energy Storage Project



Overview

Forging is an industry with high emissions and high energy consumption. Due to the constant increase in the international energy price and the negative impact on the world's environment, researchers have been

How can a steel forging manufacturing plant improve production efficiency?

Innovations such as computer-aided design (CAD), simulation software, and automated forging systems enable manufacturers to optimize production efficiency, reduce lead times, and enhance product quality. The following aspects have been covered in the report on setting up a steel forging manufacturing plant:

Is a new energy management system suitable for forging workshops?

In addition, the strength of the proposed method in this paper is a novel approach to energy efficiency evaluation and the development of an energy management system suitable for forging workshops. It can monitor the energy consumption of the whole workshop and track the energy consumption of each part of the production.

Is forging a sustainable industry?

Forging is an industry with high emissions and high energy consumption. Due to the constant increase in the international energy price and the negative impact on the world's environment, researchers have begun to focus on transforming forging into information and sustainable development.

What is a forging process?

The forging process comprises blanking, heating, forging, heat treatment, cooling and cleaning, and machining. The billet goes through a series of processes to reach the requirements of size, shape, and mechanical properties. The energy consumption of the forging process mainly includes fuel and kinetic energy consumption.

How can a framework be used in a forging workshop?

Application of the proposed framework in a forging workshop. Fig. 8 shows some of the primary functional interfaces of the evaluation system. The general idea of the system design is to use energy flow as a carrier to provide data management, energy monitoring, energy efficiency analysis, and evaluation.

What fuels are used in a forging process?

Commonly used fuels are electricity, natural gas, fuel oil (including diesel and heavy oil), and coal, primarily used for heating forging billets and heat treatment of forgings. Kinetic energy consumption refers to the energy consumed in driving the equipment and production process.

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