

Mar 18, 2022&ensp;&#0183;&ensp;The advantage of this power generation technology is that it not only recycles the pressure energy of natural gas to generate power, but also utilizes the cold energy produced ...

Jun 12, 2023&ensp;&#0183;&ensp;The natural gas differential pressure power generation system can convert the pressure energy into electric energy in the process of natural gas pressure regulation, which is ...

Aug 10, 2012&ensp;&#0183;&ensp;Energy storage systems are increasingly gaining importance with regard to their role in achieving load levelling, especially for matching ...

Dec 1, 2019&ensp;&#0183;&ensp;Compressed air energy storage (CAES) is a large-scale physical energy storage method, which can solve the difficulties of grid connection of unstable renewable energy ...

Dec 1, 2023&ensp;&#0183;&ensp;This paper addresses the urgent need to meet increasing energy demand while avoiding greenhouse gas emissions by improving energy efficiency. One significant challenge ...

This paper uses compressed air for energy storage. The results show that the generated power capacity increases as the inlet gas pressure of the turbine increases, while the total efficiency ...

Dec 15, 2024&ensp;&#0183;&ensp;Underground Gas Storage (UGS) is an important facility for natural gas peak adjustment and ensuring the balance between energy supply and demand. The ...

Jun 15, 2024&ensp;&#0183;&ensp;Abstract. The natural gas pipeline network contains a large amount of pressure energy, and the technology of using natural gas residual pressure for power gen-eration is of ...

Compressed Natural Gas Energy Storage One of the keys to achieving high levels of renewable energy on the grid is the ability to store electricity and use it later. Renewable energy ...

Feb 28, 2024&ensp;&#0183;&ensp;Abstract: Turboexpander, placed parallel to the regulator in natural gas pressure regulating station (PRS), was proposed to utilize the residual pressure by engineers and ...

Aug 1, 2022&ensp;&#0183;&ensp;However, a considerable amount of energy is abandoned by employing pressure regulators in existing city gate stations. In order to recover the exergy and get rid of fossil fuels ...

Mar 11, 2024&ensp;&#0183;&ensp;Gas pressure energy storage power stations represent a highly effective solution to modern energy challenges, addressing issues ...

Jul 16, 2025&ensp;&#0183;&ensp;Residual pressure of natural gas in gas gathering station can be converted into electrical power. An analytical methodology of residual pressure recycling was formulated to ...

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