

This PDF is generated from: <https://www.h2arq.es/Tue-11-Apr-2023-44111.html>

Title: Gas pressure energy storage power generation

Generated on: 2026-03-16 04:38:33

Copyright (C) 2026 . All rights reserved.

For the latest updates and more information, visit our website: <https://www.h2arq.es>

-----  
Can natural gas residual pressure be used for power Gen-eration?

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 great significance for energy conservation and emission reduction.

How does natural gas differential pressure power generation work?

The natural gas differential pressure power generation system converts the pressure energy into electric energy, which has the characteristics of high efficiency and cleanliness. Compared with other studies, the process of this study is not only more energy efficient, but also an experimental system has been established in a station in China.

What are the advantages of natural gas power generation technology?

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 by the depressurization process of natural gas, which improves the utilization rate of en-ergy, produces by-product CNG, and improves the economic ben-e ts of the product.

How to recycle the Pres-sure energy of natural gas?

Therefore, under the current operating conditions, it is recommended to use the double expansion differ-ential pressure power generation technology to recycle the pres-sure energy of natural gas.

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

Mar 10, 2023&ensp;&#0183;&ensp;With the rapid economic development, the world is looking for renewable energy to replace traditional energy. Natural gas is a clean renewable energy source, and building a ...



Nov 26, 2023&ensp;&#0183;&ensp;With the increasing proportion of natural gas in primary energy consumption, natural gas pipeline networks have also developed rapidly, and high-pressure, long-distance ...

Apr 30, 2023&ensp;&#0183;&ensp;Aiming at the problem that the waste heat at the pressure regulation point of natural gas is difficult to utilize, this study proposes a new type of natural gas pressure energy ...

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 ...

Web: <https://www.h2arq.es>

