

## **[PAPER/POSTER TITLE]**

### ***Review the impact of shale gas extraction on water resources***

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## **Overview**

Shale gas is an emerging energy resources , but also a clean , high quality and efficient energy , the development of shale gas is also a hot topic of worldwide concern , but in the process of shale gas development on water resources brought impact can not be ignored . Shale gas mining technology in the U.S. has been very mature, China in recent years have begun to prepare to develop shale gas . In this paper, draw the U.S. shale gas exploitation when water management experience and technology , combined with the water resources situation facing China shale gas exploitation are analyzed , and finally water issues of concern for the future of shale gas exploration in China some suggestions .

## **Methods**

review

## **Results**

## **Conclusions**

First, because the exploitation of shale gas requires a lot of water, and water resources in China is relatively poor in some areas, so the introduction of the U.S. shale gas technology, but also to draw attention to the American experience and sophisticated water management environmental technology, avoid wastage and pollution of water resources and to protect the living water of local residents.

Second, should correctly handle the exploitation of shale gas produced water back positive learning experience America's wastewater treatment, and the introduction of American underground wastewater injection technology to solve the problem of water back. Prohibit the rivers, lakes and other surface runoff direct discharge of untreated water back.

Third, the development and use of shale gas, China is poised to develop shale gas in the relevant development plan, to fully consider the constraints of local water resources. For such a serious water shortage in Chongqing and Shanxi regions, the amount of water should do what, before the development of shale gas to do detailed research. Whether it is economic development, energy security or national security, are not to pollute the environment and human survival at the expense of water.

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