



# 将常规和非常规天然气作为绿色经济的目标燃料

“Conventional and Unconventional Gas as a Destination Fuel for the Green Economy”



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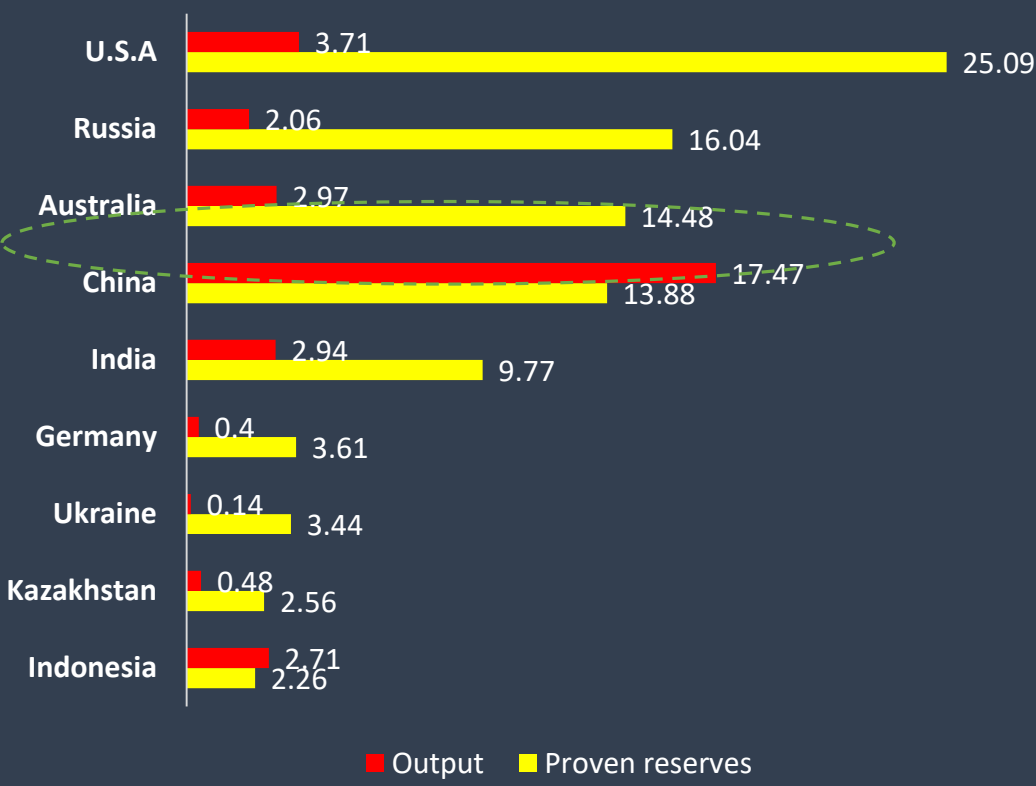
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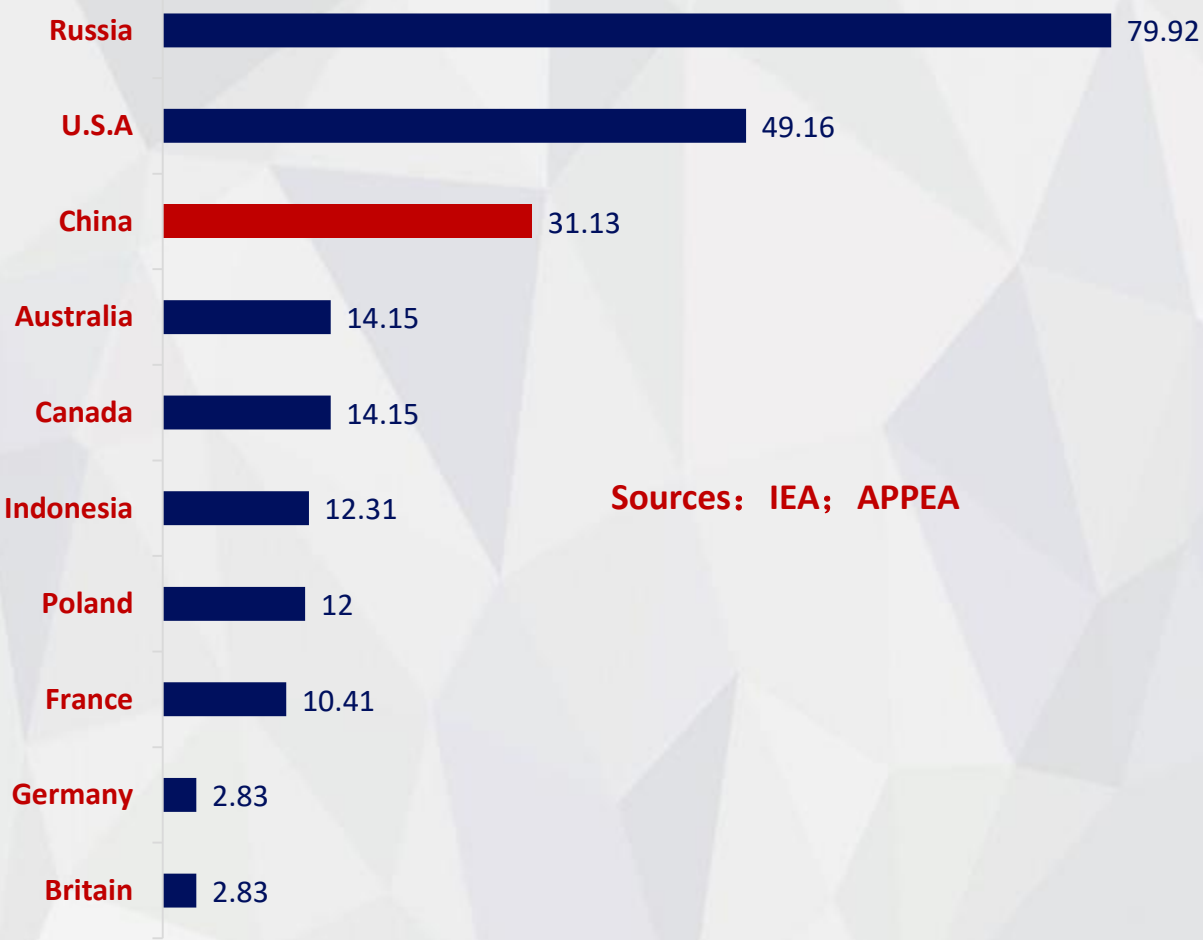
# 01 CBM industry is of great significance in the global energy structure

Global proven reserves (100 trillion tons) and output (trillion tons of oil equivalent) of coal in 2017



Source: BP energy statistics yearbook 2018

Global distribution of CDM geological resources in 2016 (trillion m<sup>3</sup>)

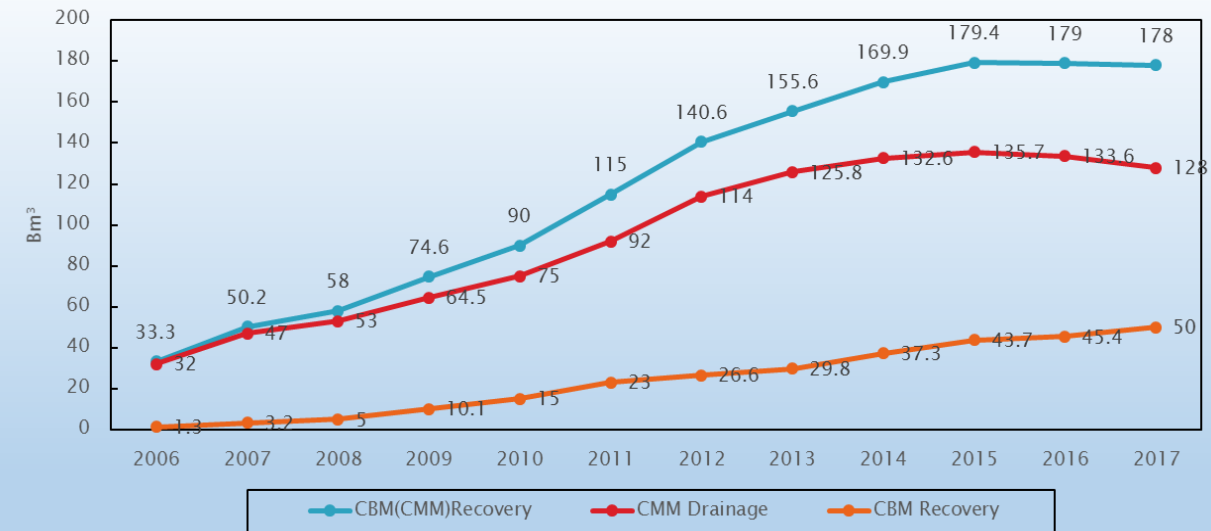


Sources: IEA; APPEA

## 02 The Chinese government encourages and guides the development and utilization of CBM

● CBM in China is mainly distributed in Qinshui Basin of Shanxi Province and Ordos Basin of Inner Mongolia and Shaanxi Province. CBM development in China is very difficult. Reservoirs generally have the characteristics of “1-high and 3-low”, that is, “High crustal stress, low interstitial pressure, low permeability and low yield”. Most of the measured permeability values are below 0.001md.

● The central government and local governments at all levels encourage the drainage and utilization of CBM/CMM. For example, the policy of “integration of coal mining and gas production” could mobilize the enthusiasm of all stakeholders at the same time, and the financial subsidy of RMB 0.4 Yuan can be obtained for each cubic meter of methane utilized in Shanxi Province.



The CBM (CMM) recovery volume from 2006 to 2017 in China

## 03 Methane utilization model in SCCG

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- **Methane utilization concept of SCCG:** To promote the utilization by the emission reduction, to promote the drainage by the utilization, to guarantee the safety production by the drainage.
- **Methane utilization model of SCCG:** Ladder utilization and near-zero emission
- **Methane utilization planning of SCCG:** In the next 3-4 years, SCCG will develop and construct methane power generation projects with installed capacity exceeding 70MW





# 03 To actively promote the Best Practice on the platform of ICE-CMM

- In 2017, ICE-CMM of China was established to build a basic platform for the promotion of the Best Practice.
- Organize and participate in international and domestic academic conferences, actively promote best practices
- Translate and publish “The Best practice Guidance for Effective Methane Drainage and Use in Coal Mines”
- In 2018, taking SCCG as a demonstration, China ICE-CMM promoted the Best Practices in an all-round way, In 2019, the business of China ICE-CMM will be extended to large coal enterprises in Shanxi Province



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THANK YOU FOR  
YOUR ATTENTION

