

make a clean future real with natural gas

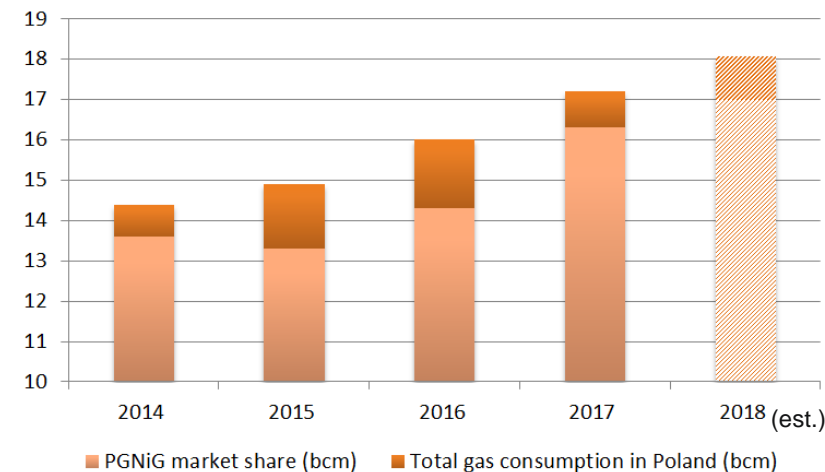
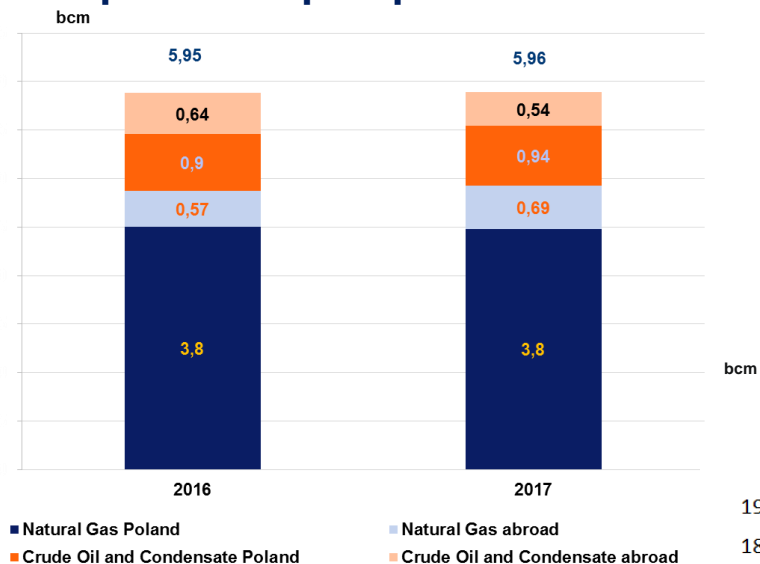
# Conventional and Unconventional Gas as a Destination Fuel for the Green Economy

10<sup>th</sup> December 2018, 10:15 – 11:45

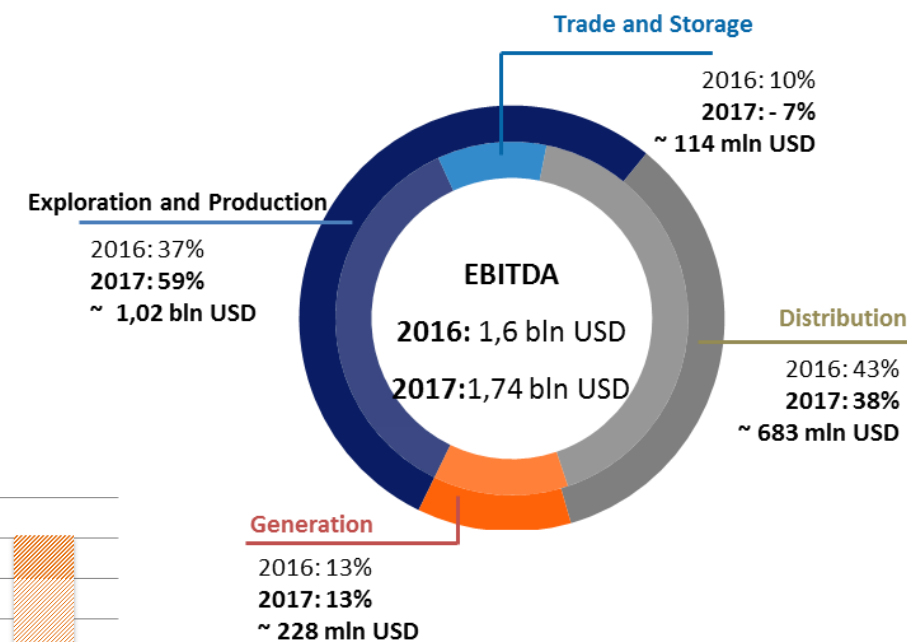


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## PGNiG Capital Group Exploration & Production



## PGNiG EBITDA



Total gas consumption in Poland: >17 bcm



## PGNiG E&P priorities:

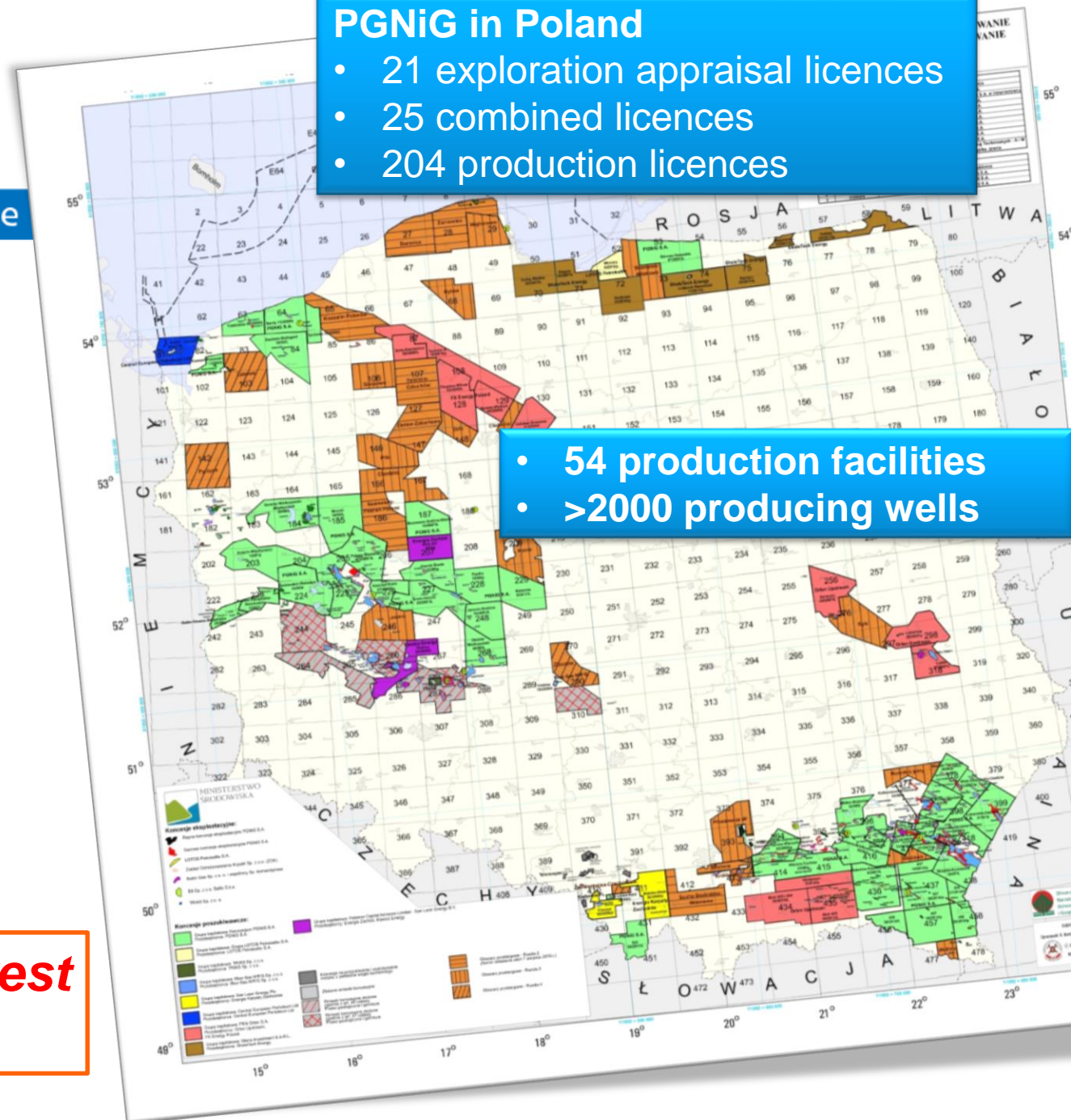
- **Indigenous resources in Poland**
  - Development of new fields
  - Revitalisation of existing fields
- **E&P projects abroad**
  - 2,5 bcm/y of gas production in Norway
  - Tight gas production in Pakistan

**PGNiG is searching for *working interest* in gas fields outside of Europe**

## PGNiG in Poland

- 21 exploration appraisal licences
- 25 combined licences
- 204 production licences

- 54 production facilities
- >2000 producing wells



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## Coalbed Methane Resources in the Polish Coal Basins

Estimated potential of CBM production in Poland: **1-2 bcm/y**

### Main priorities of PGNiG CBM programme

- **Determine the screening criteria** for pre-mine drainage of coal seam gas depending on geological-mining conditions.
- **Develop directional drilling technologies** and methods of coalbed gas production
- **Demonstrate the feasibility** of the pre-mine drainage technology, and implement it in the selected area.

**Gilowice demonstration project:**

**2017 results**

- **900 000 m<sup>3</sup>/y,**
- **5 000 m<sup>3</sup>/day.**



**Only 4 out of 29 active coal mines in Upper Silesian Coal Basin operate under methane-free conditions**

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**Thank you for your attention**

**Piotr Woźniak**

CEO PGNIG S.A.