



DUTCH OFFSHORE GAS



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A SUCCESS STORY



DUTCH OFFSHORE GAS A SUCCESS STORY

- Introduction
- GDF SUEZ
- Exploration and Production (E&P)
- Netherlands Gas Country
- Dutch Small Fields
- Success Factors
- Importance of Gas
- Future of Dutch Offshore

NOGEPA























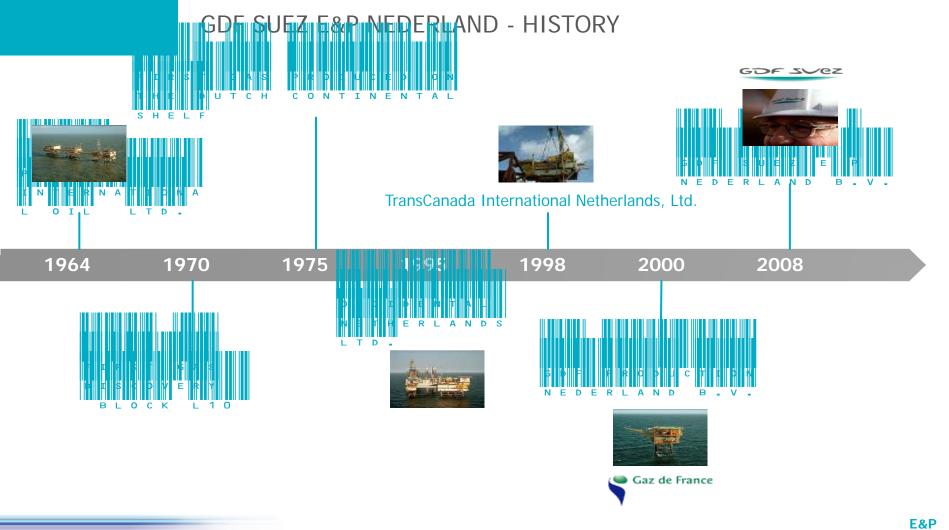












GDF SUEZ E&P NEDERLAND















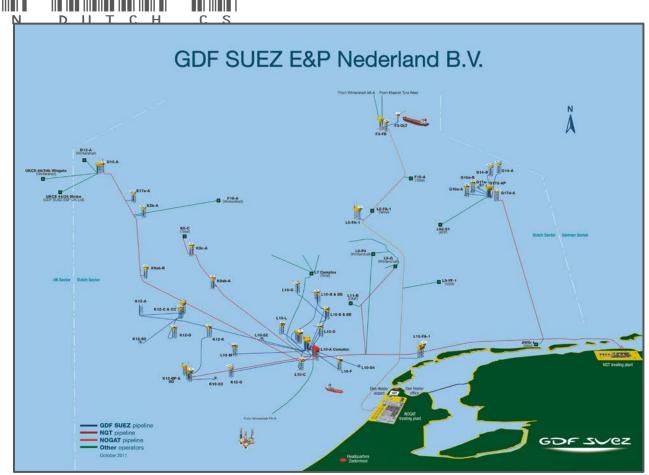




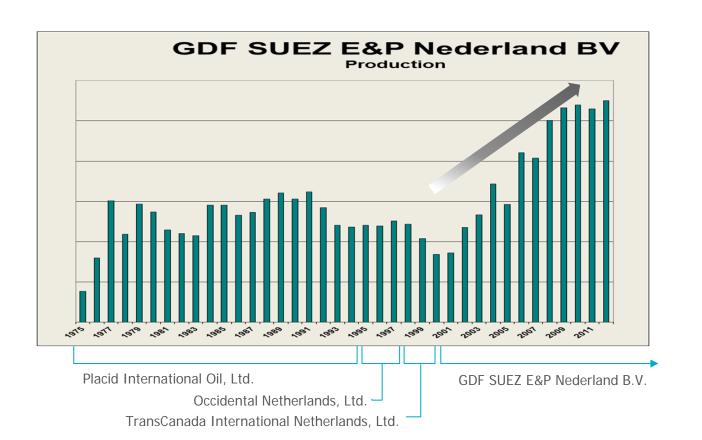








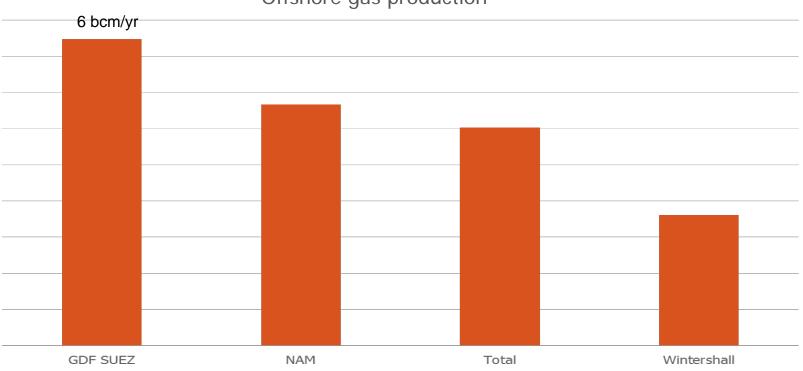
PRODUCTION HISTORY



Operate 33% of Dutch offshore production

GDF SUEZ - LARGEST GAS PRODUCER ON DUTCH CS







AN IMPORTANT EMPLOYER IN THE DUTCH E&P INDUSTRY

Offshore Location and drill rig



500

Den Helder Operational Office



100

Zoetermeer Head Office



200



800 total personnel









GDF SVCZ



















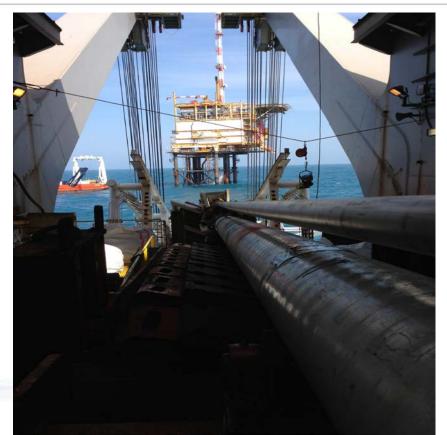


Offshore Pipelaying





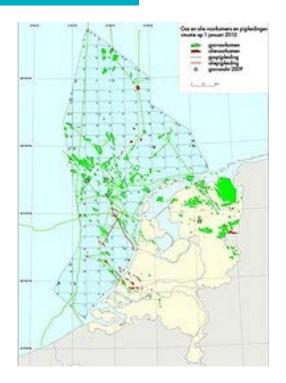




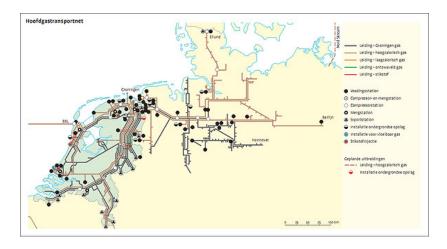
DUTCH OFFSHORE GAS A SUCCESS STORY

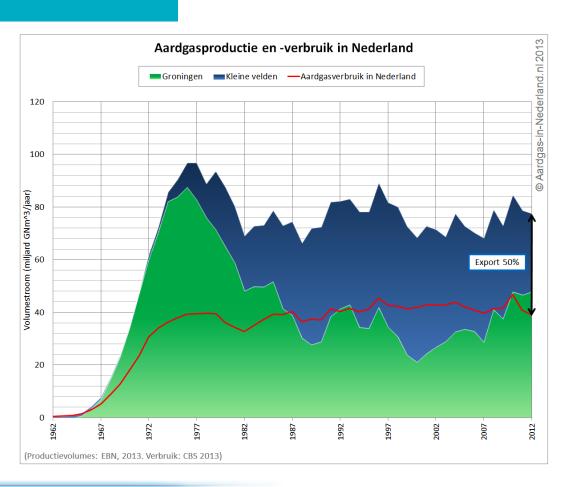
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NETHERLANDS IS GAS COUNTRY









Groningen

- Ultimate Reserves 2,800 bcm
- 2/3 produced (900 bcm left)

Small Fields

- Ultimate Reserves 1,700 bcm
- 3/4 produced(400 bcm left)

Excludes Exploration potential Excludes Unconventional Potential

2012 Production:

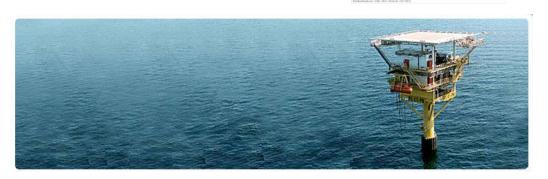
- Groningen 50 bcm
- Small fields 30 bcm of which 20 bcm from offshore

98% households connected to gas (heating, cooking) 60% of electricity from gas fired power stations (under pressure from US coal and German wind)

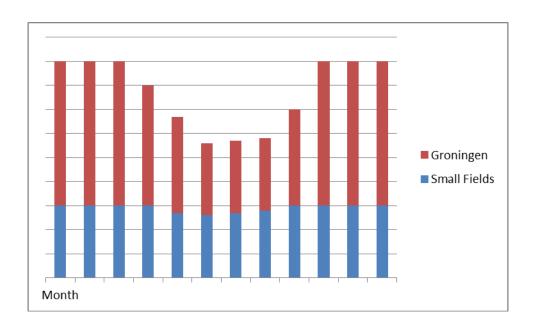
DUTCH SMALL FIELDS POLICY

- Extend strategic Groningen Reserves
- 1973 Oil Crisis underlined importance of domestic reserves
- From 1974 Dutch government actively encourages exploration and production of small fields
- Small fields preferentially produced
- Groningen swing capacity
- GasTerra (50% Dutch State) buyer provides guaranteed market
- Gasunie GTS (100% Dutch State) provides guaranteed transportation
- State participation E&P EBN 40%
- Stable fiscal policy

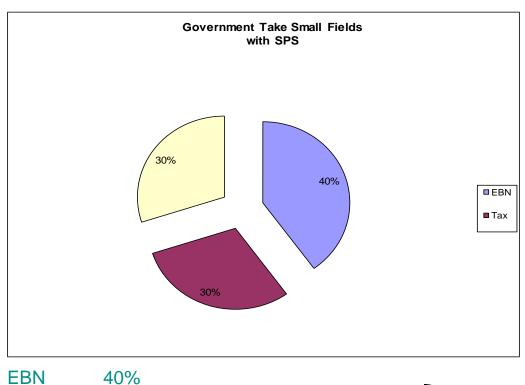




GRONINGEN ANNUAL SWING



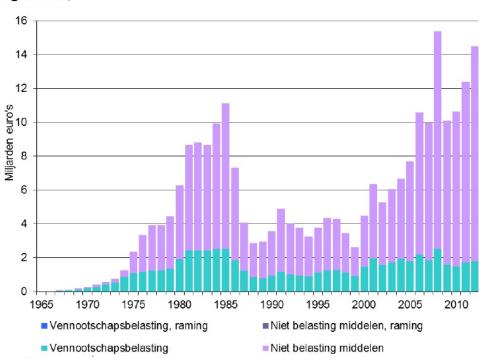




EBN 40%CIT 25%SPS 50% Tax 50% of 60% = 30% Gov't take 40 + 30 = 70%

AARDGASBATEN

Aardgasbaten,



State Gas Revenues ("Aardgasbaten")

> €250 billion
Straight to treasury ("Rijksbegroting")
Build Dutch wellfare state
>25% social security
60% health care, education, defense
15% infrastructure

GAS AND RENEWABLES - A PERFECT FIT



- Gas is available, affordable and flexible
- Gas cleanest fossil fuel
- Gas storage when demand is low
- High capacity when demand is high
- Complement renewables (no wind, no sun)



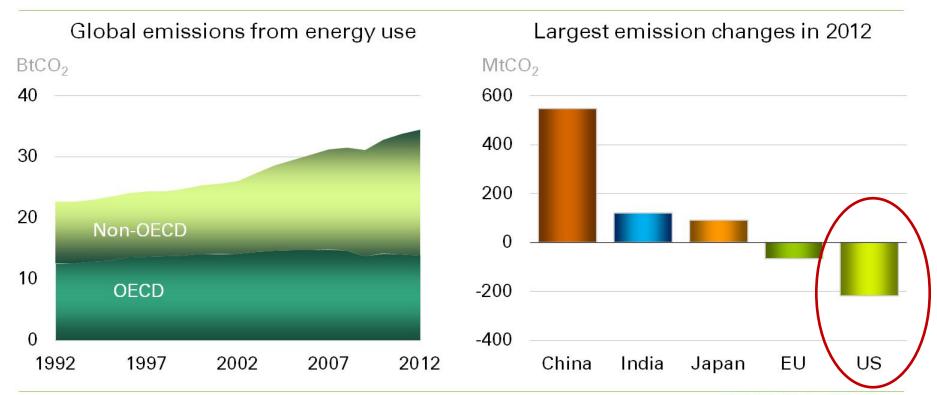




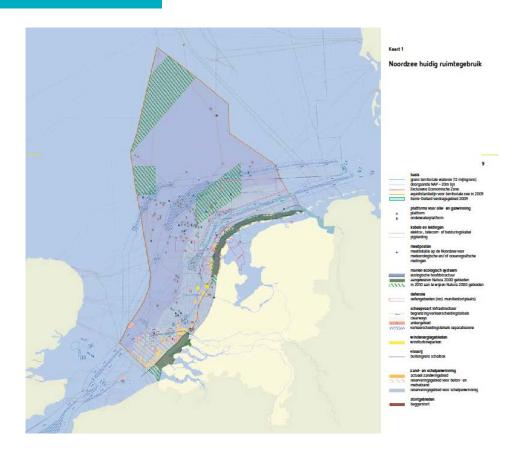


Carbon emissions





DUTCH OFFSHORE SPATIAL PLANNING



Multiple Users:

- E&P (platforms, rigs, pipelines)
- Wind farms
- Shipping lanes
- Anchor areas
- Fishing
- Defense (practice areas)
 - Navy, Airforce
- Environmental Areas (Natura 2000)



FUTURE FOR DUTCH OFFSHORE

- Realise multiple users; need to co-exist
- Communication is key
- Safety first
- Environmental protection
- Balancing objectives

- State revenues from gas
- Wind to meet sustainability targets
- Employment



In 2010 zadelrob (seal) werd in een reiskist naar het meest noordelijke productieplatform F3 van GDF SUEZ gebracht.





Questions?



