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i.c. day am 28.11.2017

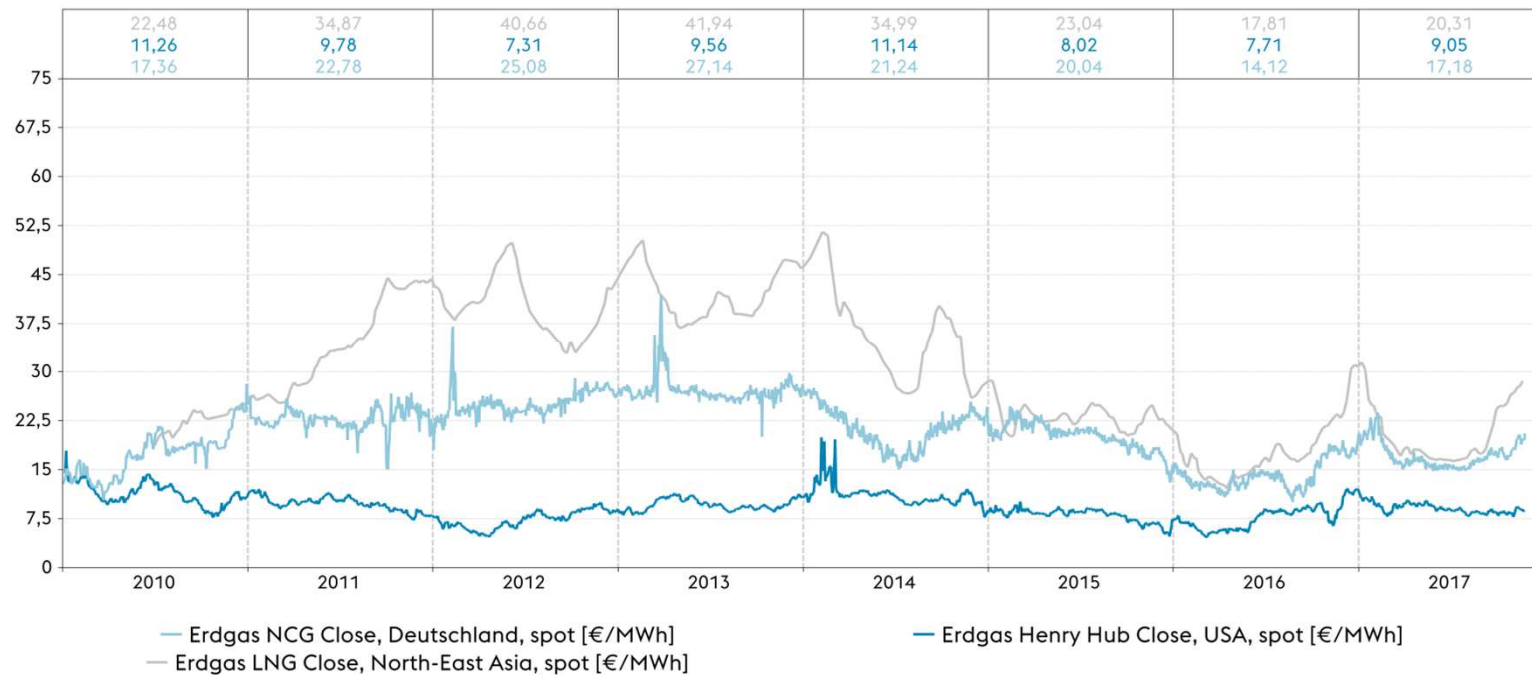
VARB/Hannes Pesendorfer

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ONE STEP AHEAD.

INTERNATIONALE ERDGASPREISENTWICKLUNG SPOTMARKT



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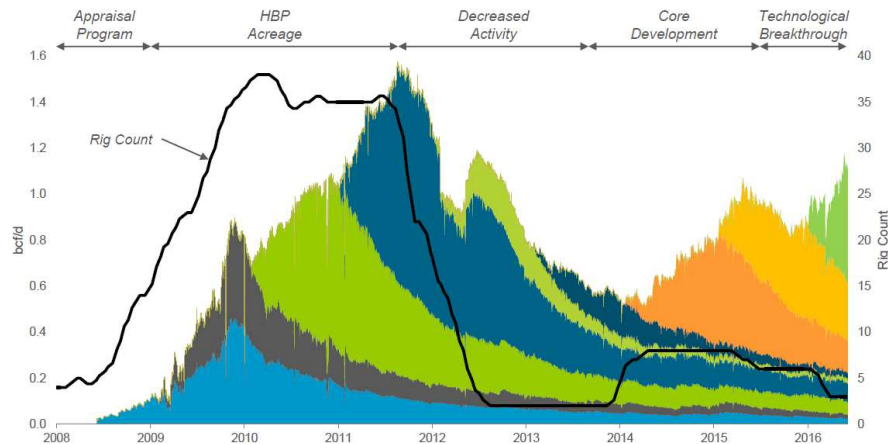
2 | 28.11.2017 | i.c. day

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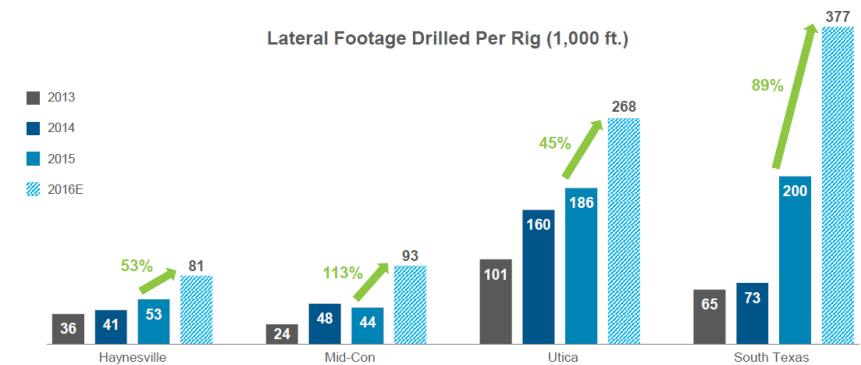
ONE STEP AHEAD.

CHESAPEAKE ENERGY – TECHNIK („3“ IST DAS NEUE „39“)

CHESAPEAKE OWNS THE HAYNESVILLE GROSS PRODUCTION AND RIG COUNT



DRILLING COMPETITIVE ADVANTAGES 10 RIGS IS THE NEW 35 RIGS AT CHESAPEAKE



➤ Drilled more lateral footage in first nine months of 2016 than all of 2015

- Maximize capital efficiency
- Less capital intensity
- Smaller surface footprint

45% – 113% gain
In lateral footage drilled per rig

Quelle: Chesapeake Energy – Analyst Day 2016

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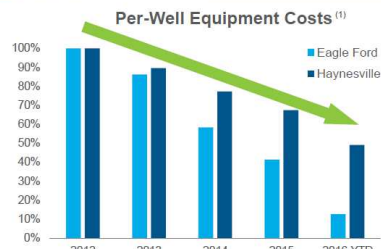
CHESAPEAKE ENERGY – KOSTEN/ERLÖSE

DELIVERING VALUE THROUGH STANDARDIZATION, PLANNING AND DESIGN



- Decreasing construction costs
- Reducing cycle time
- Improving quality
- Driving continuous improvement

50% – 80% reduction
In equipment costs



(1) Base year 2012 equipment costs of \$727,000 for Eagle Ford and \$365,000 for Haynesville

SOUTH TEXAS

75%

undeveloped

5,260

LOCATIONS

remain to be drilled⁽¹⁾

2.0

BBOE

net recoverable resources

\$39

/bbl

breakeven (PV10)⁽²⁾

(1) Includes Upper Eagle Ford and Austin Chalk locations, operated gross risked locations
(2) PV10 positive breakeven price assuming \$3 gas price

Quelle: Chesapeake Energy – Analyst Day 2016

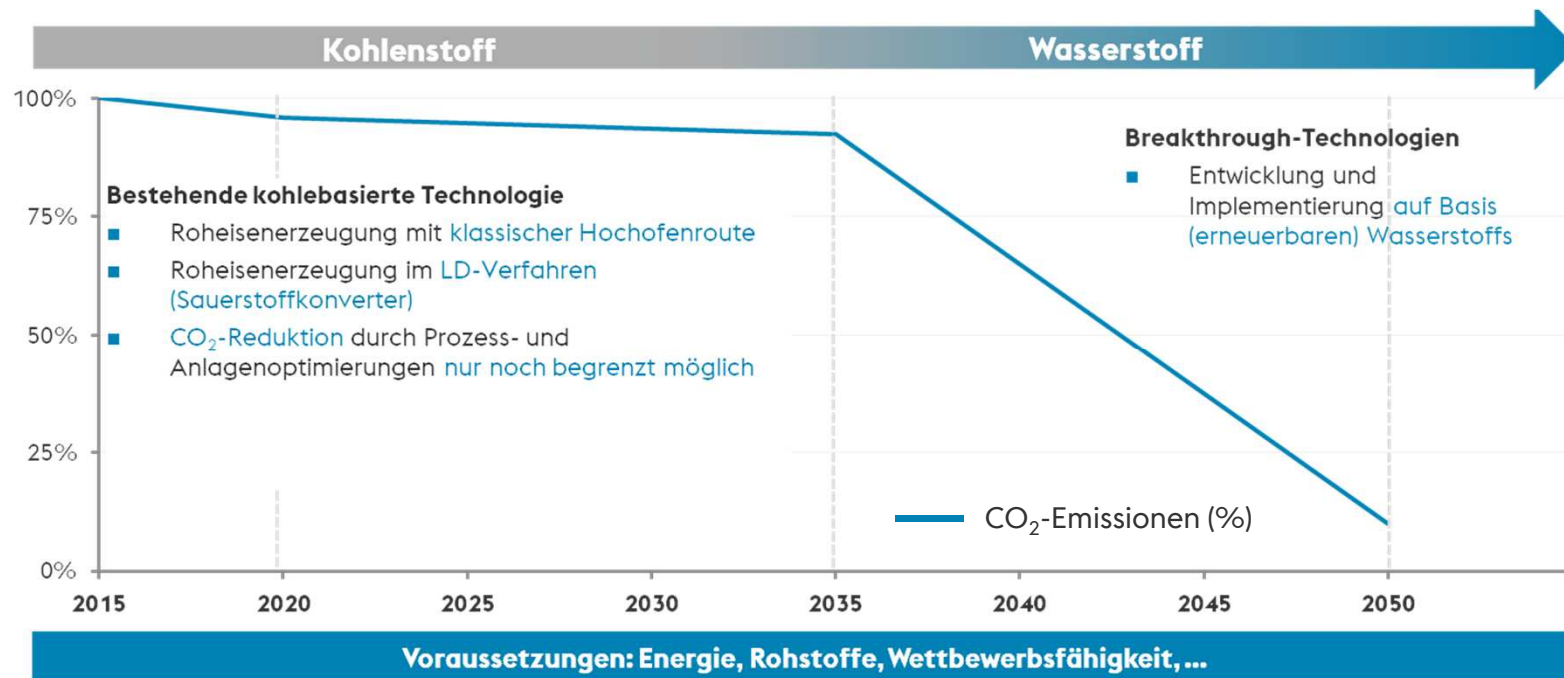
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TRANSFORMATIONSSZENARIO VOESTALPINE



ENERGIEÜBERTRAGUNG VERGLEICH STROM / ERDGAS

Strom

Erdgas

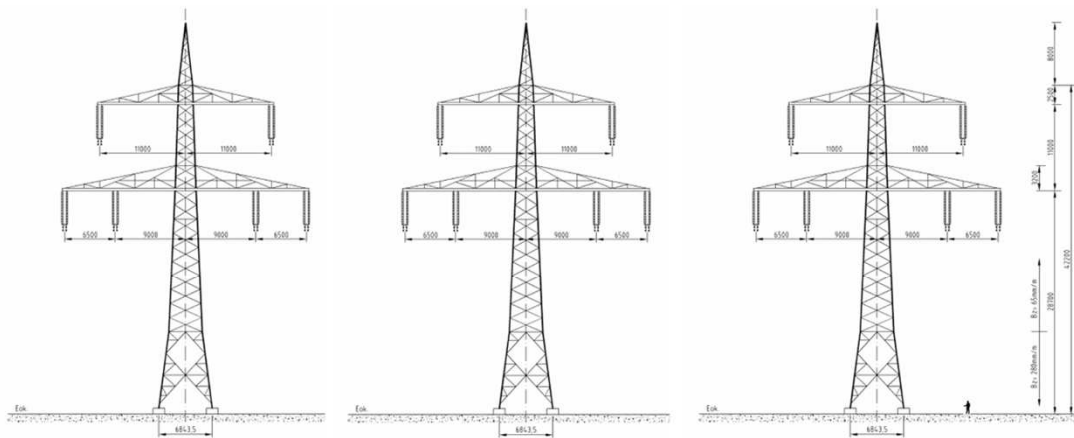


Bild 3.1. Standardtragmast einer 380-V-Doppelleitung 2x3x 4x264-AL1/34-ST1A-1 Stahl-Aluminium-Verbundteile mit 264 mm² Aluminiumquerschnitt, 1 Erdseil (Quelle)

6 x 380 kV-Systeme mit ca. 10.200MVA
(je System ca. 1.700MVA)

Rohrdurchmesser 1.000mm mit ca. 11.500MW
(bei Druckverlust von 0,1bar/km)

Quelle: Praxisbuch Energiewirtschaft, Energiewandlung, -transport und -beschaffung, Übertragungsnetzausbau und Kernenergieausstieg

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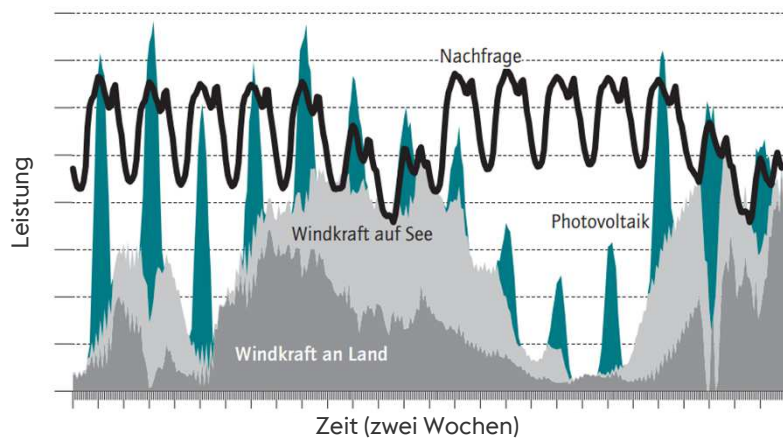
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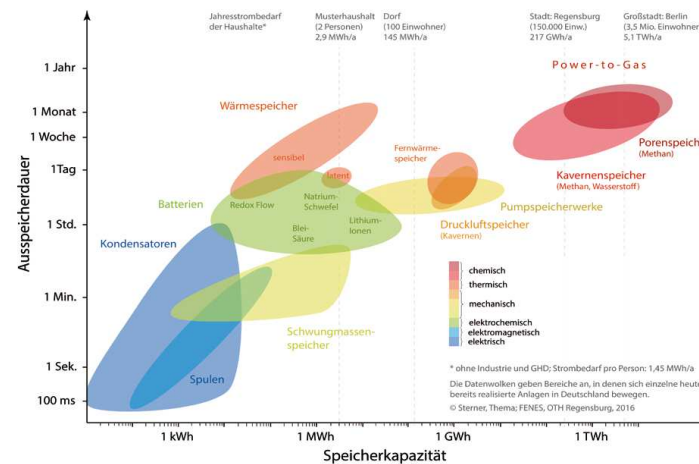
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VOLATILE ERNEUERBAR ENERGIEN FÜHREN ZUR ZENTRALEN FRAGE DER ENERGIESPEICHERUNG

Beispiel: Stromnachfrage versus Erzeugung auf Basis von Wind- und Solarkraftwerken



Übersicht Energiespeicher



Quelle: Sterner, Thema: FENES OTH Regensburg 2016

ANSPRECHPARTNER

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