



TotalEnergies

Tyra Redevelopment

EnergiESbjerg | 19 March 2024

Michael Lindholm Pihl Larsen

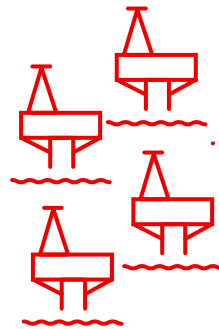
Technical Project Leader – Tyra Redevelopment

TotalEnergies secures Denmark's energy supply



ESBJERG

North Sea oil and gas activities



250 km

ESBJERG

KØBENHAVN

Danish Underground Consortium

 43.2%

 36.8%

 20.0%



1200 Employees in Denmark

COPENHAGEN

Technical Centre
Conventional Offshore

Carbon Capture Storage

Renewables



Tyra: Denmark's largest natural gas field



Old Tyra

 225 km	 1968 DISCOVERED	 >90 PERCENT
West of Esbjerg in Denmark	Production started in 1984	Of all Danish gas production before shut-in



Tyra Redevelopment: Safeguarding Denmark's core energy infrastructure



Contribution to Danish economy

Largest single investment ever in the Danish North Sea



Continued safe production

Increasing air-gap with new platforms & extended jackets



Old Tyra



New Tyra



Gas as transition fuel

Key in tackling climate change, 30% reduction in CO2 emissions



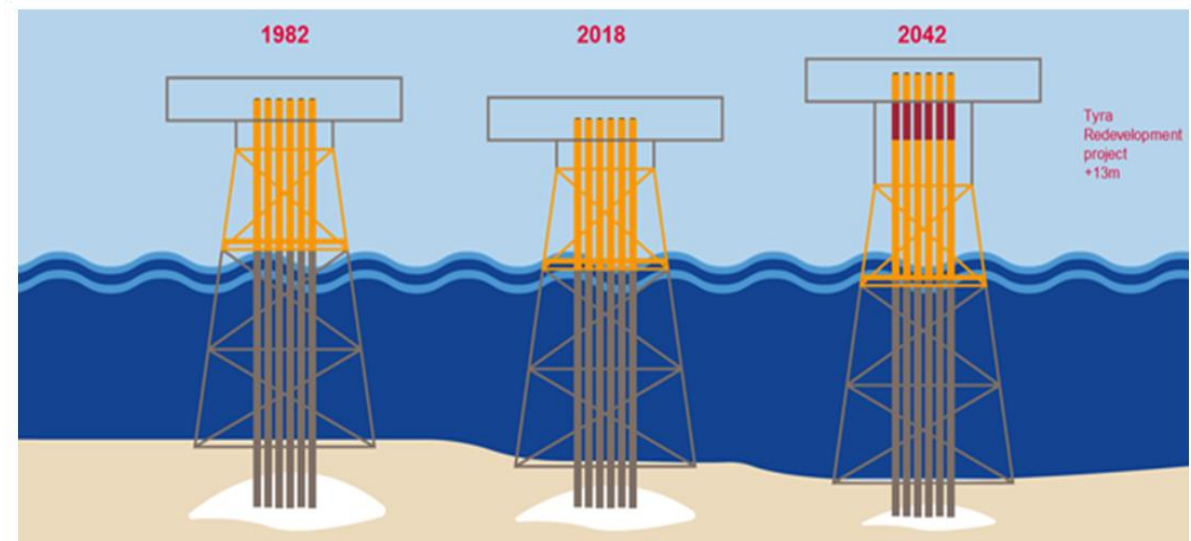
2.8 billion m³ gas / year

Contributing to Denmark's and Europe's energy security

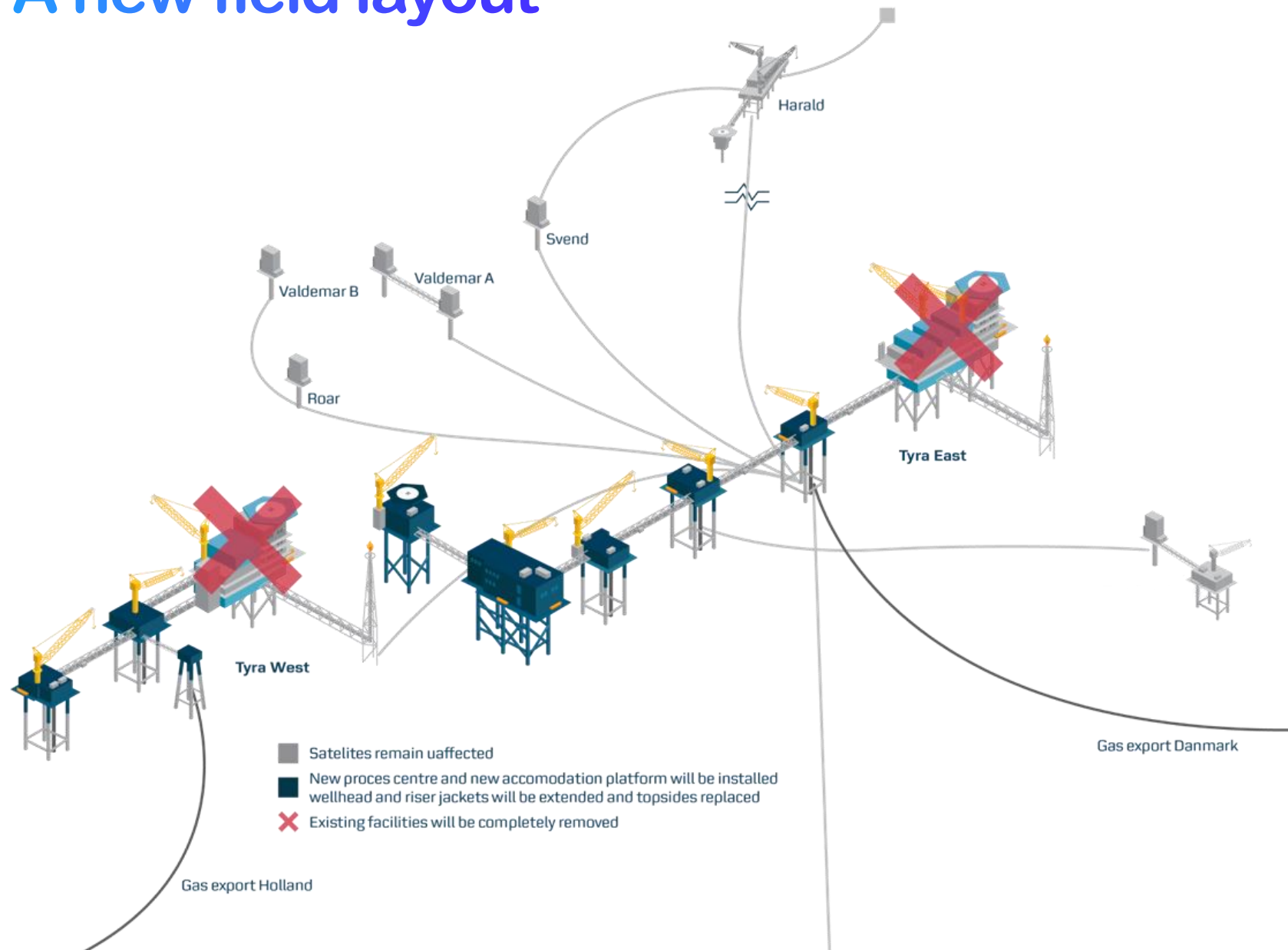


Denmark's new high-tech hub for natural gas production

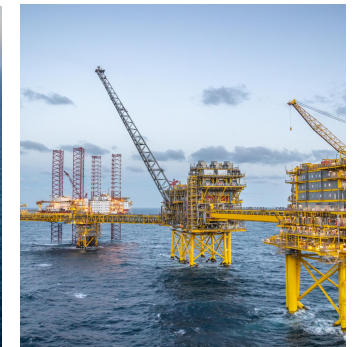
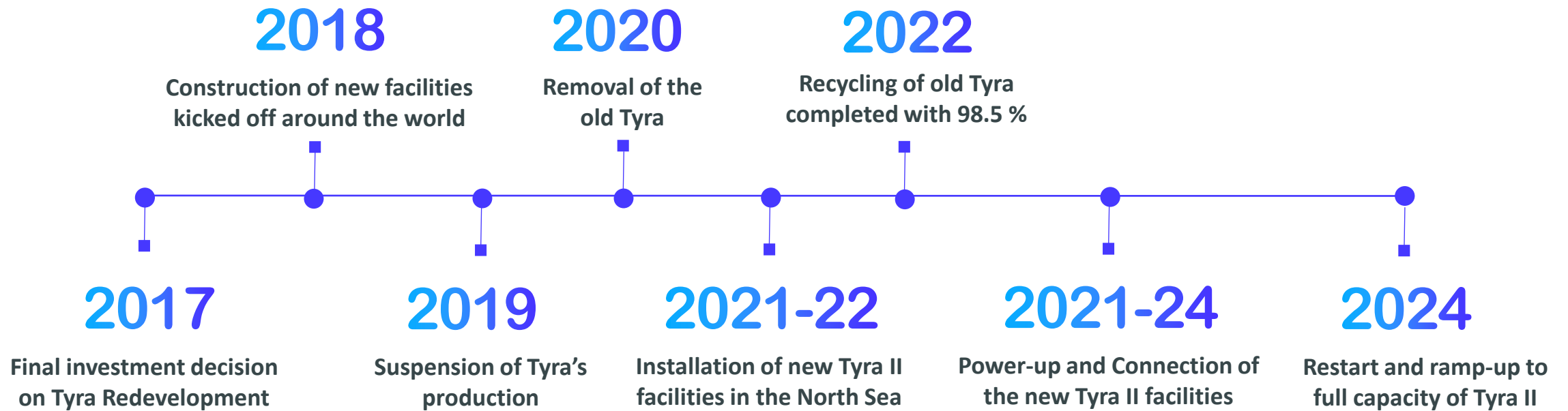
Innovative technology, new ways of working and key enabler for new developments



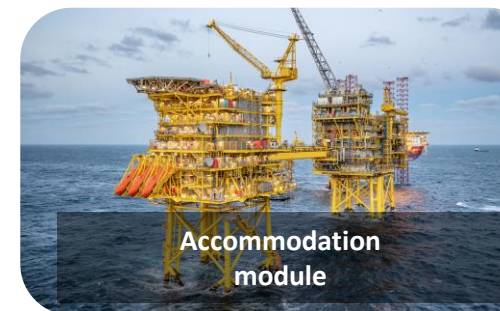
Tyra II – A new field layout



The redevelopment reached critical milestones



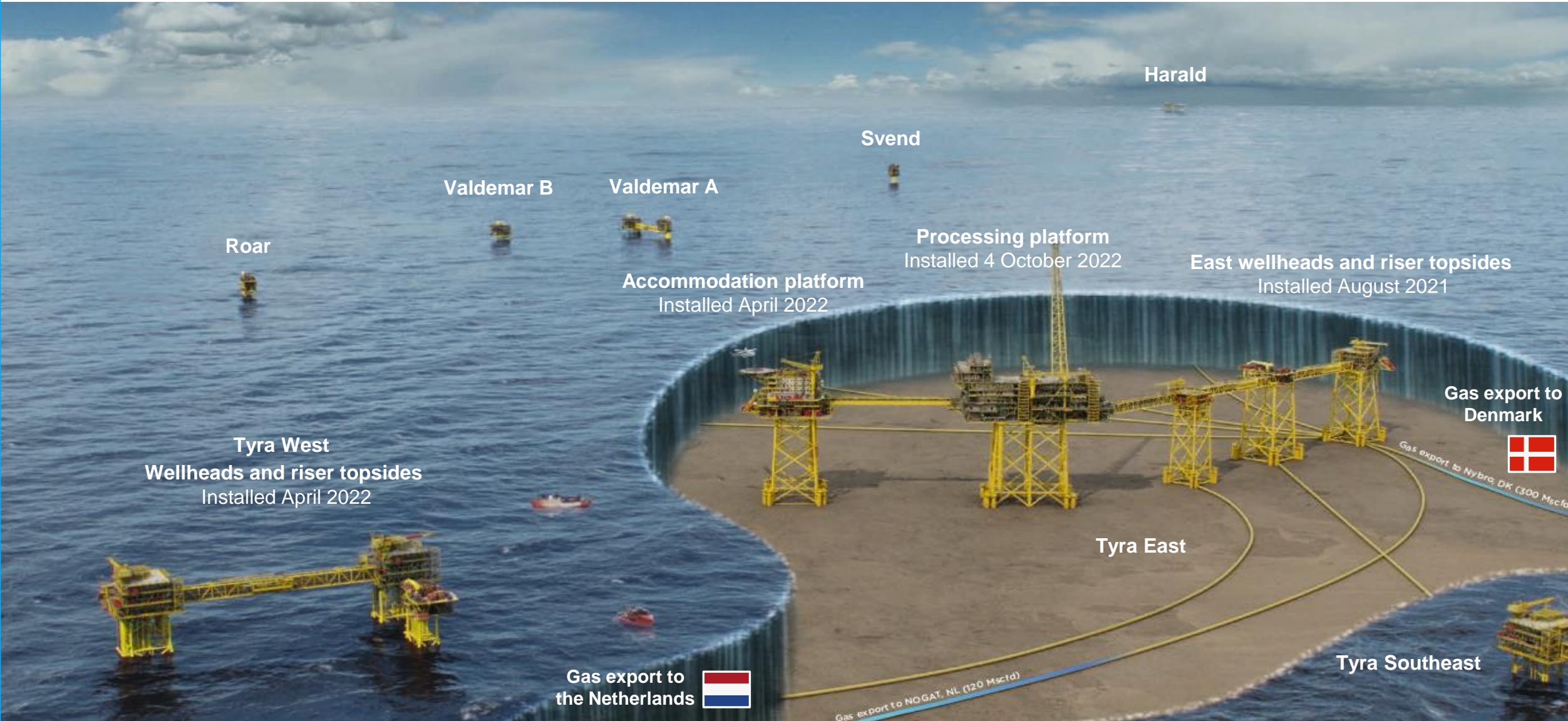
Building Tyra II: a global and local effort



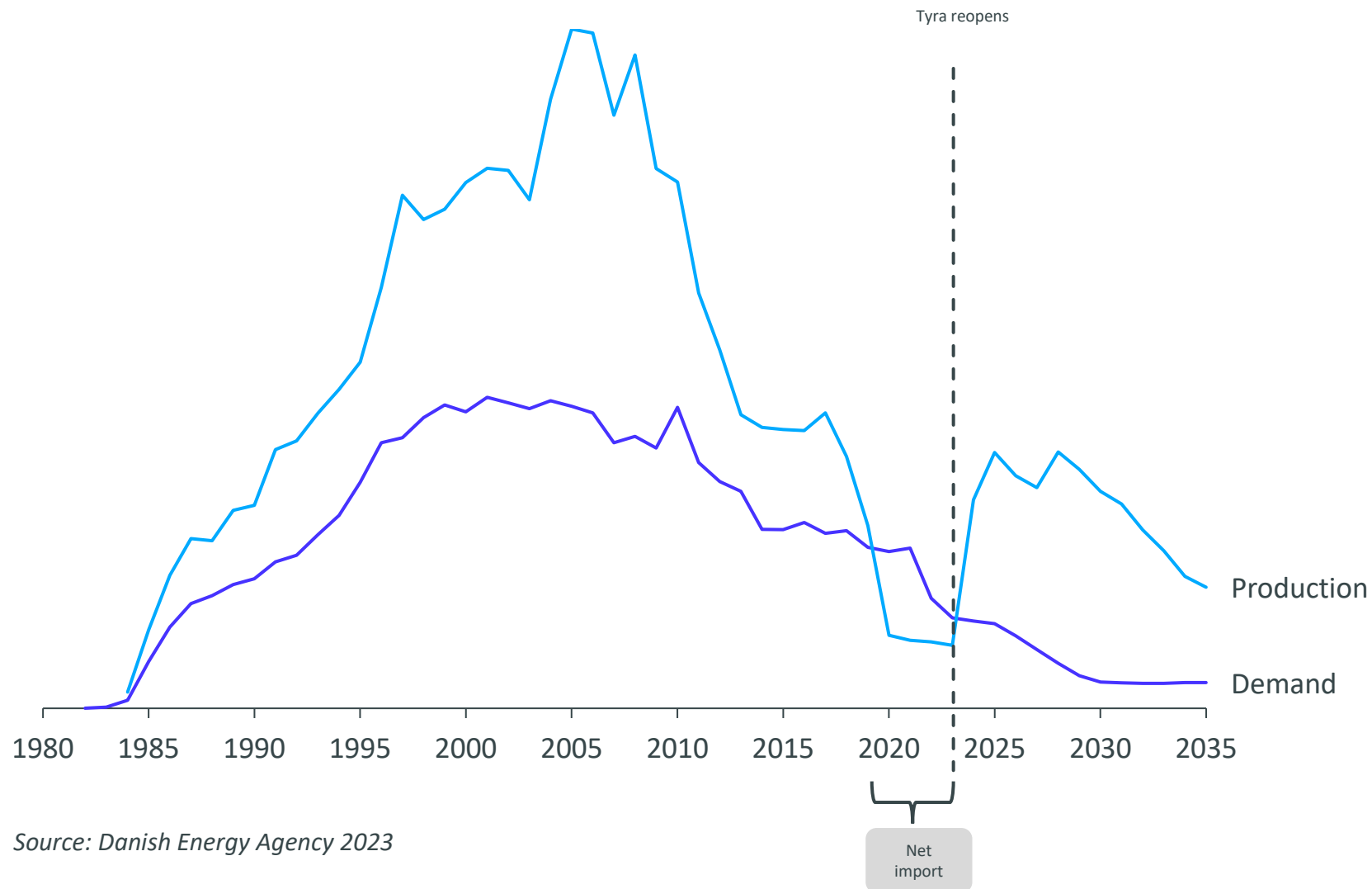


**Final Tyra-topside lift broke world record
– a past redevelopment highlight**

Tyra II: Denmark's high-tech hub for natural gas production



Tyra II makes Denmark self-sufficient and net exporter of natural gas to Europe



Source: Danish Energy Agency 2023

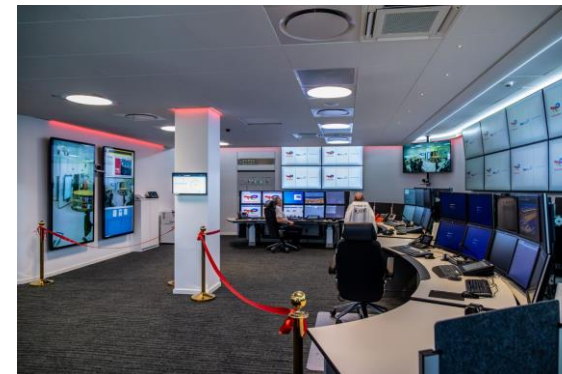
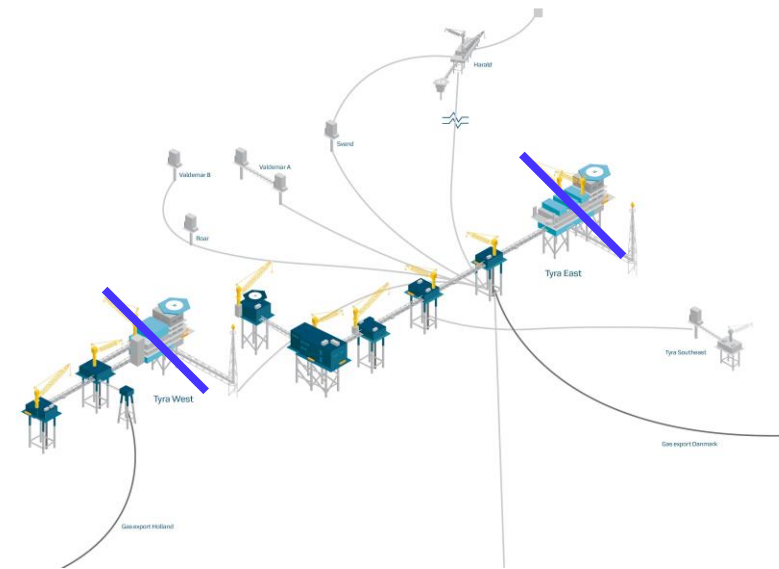
The new Tyra II is expected to operate with 30%* lower emissions per energy unit



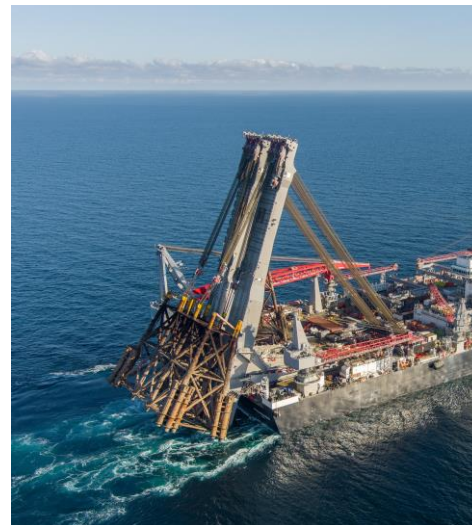
Simplified infrastructure and improved energy efficiency



100,000 data points help optimize production, emissions and safety



* Compared to the old Tyra



Thank you!

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Michael L. Pihl Larsen • 1st
Technical Project Lead - Tyra Redevelopment Project
Esbjerg

Talks about #tyra2, #totalenergiesdk, and #tyraredevelopment



<https://tyra2.dk>

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