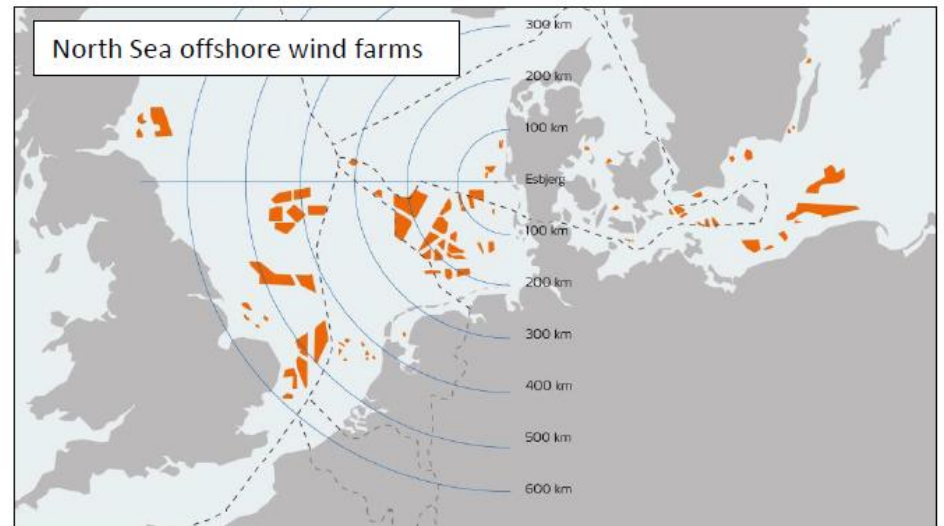
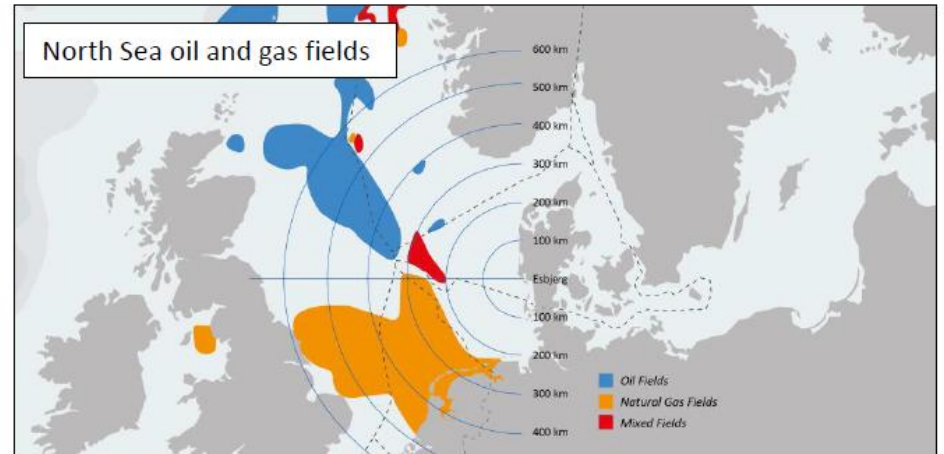




Transformation of infrastructure at the Port of Esbjerg

# Port of Esbjerg



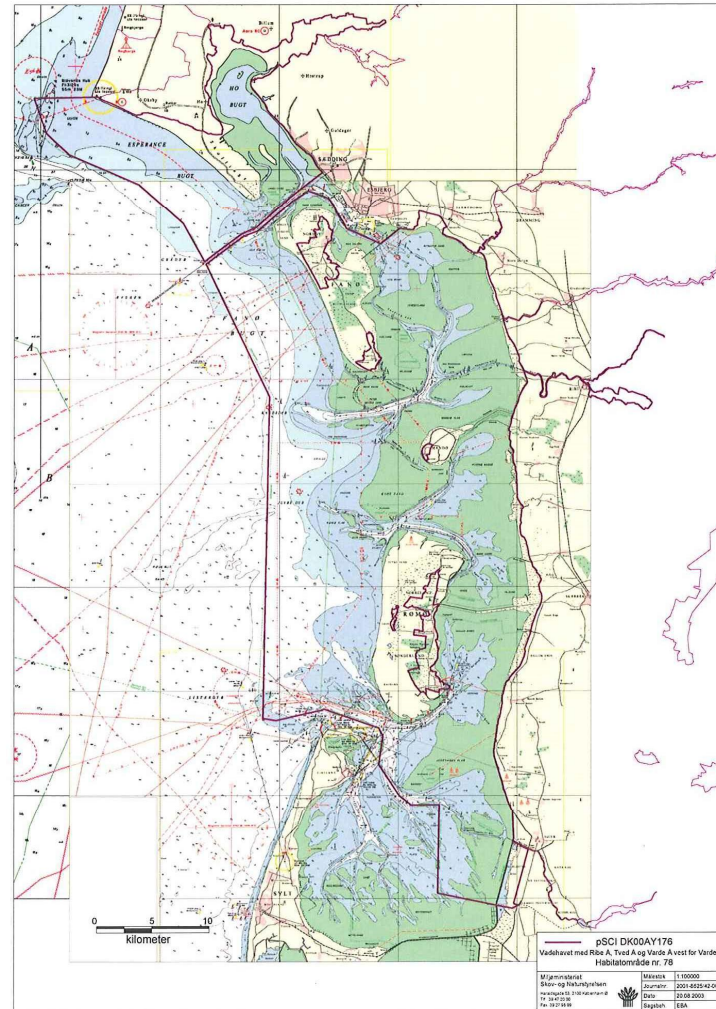


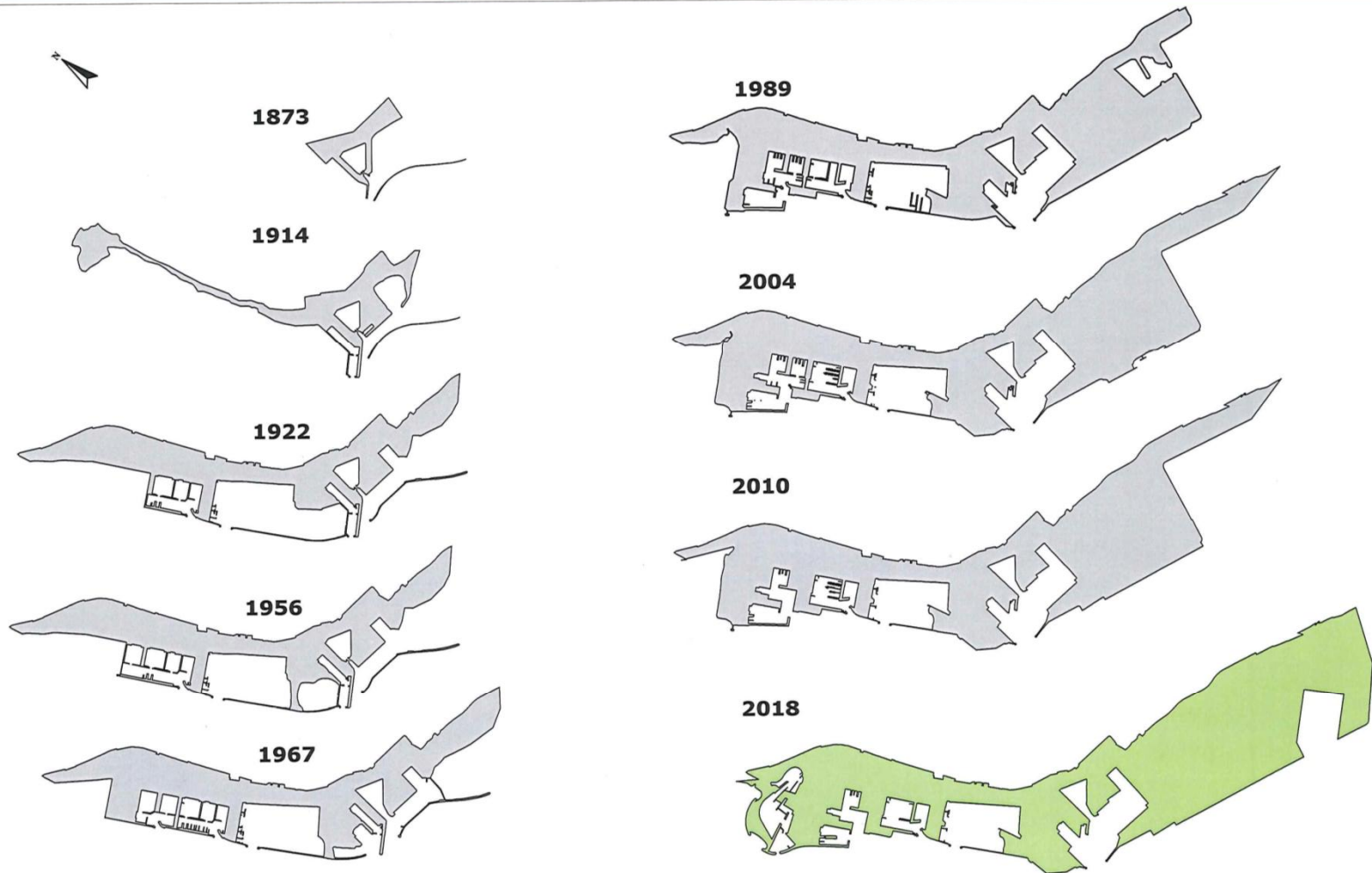
## NATURA 2000

EF- bird protection area  
Habitat area  
Ramsar wetland

*National park Vadehavet*

*UNESCO World Heritage  
Site 2014*





Esbjerg havns udvikling  
1873 - 2018





Size	4,500,000 m <sup>2</sup>
Quay Length	14 km
Water depth	10.5 m MLWS
Ramps	7 RO/RO ramps
Tidal range	1.3 – 1.5 m
Direct connection to E20 int. highway	
Railway terminal	





# Port of Esbjerg

A public, self-governing port owned by the Municipality of Esbjerg

Agricultural export to the UK



Fishing



Oil & gas



Wind energy

Approx. 4,500 port calls per year



## Business strategy

- Project cargo
  - Wind turbine export
  - Offshore wind farms
- Offshore – Oil & Gas
  - Rig repair
  - Base facilities
- Intermodal transport
  - Ro / Ro
  - Lo / Lo





# NordPIANC. Transformation of infrastructure at Port of Esbjerg



FROM	TO	CONSTRUCTION PERIODE	CONSTRUCTION ELEMENTS
Bulk and general cargo	Oil and gas	1973-2000	Remove harbour cranes Change infrastructure Establish connected hinterland areas
All kind of Fishing related facilities and industries.	Facilities for repair and maintenance of offshore vessels and rigs	2004-2014	Abandon basins. Increase width of entrance Change infrastructure Increased water depth and quay load capacity.
Bulk and general cargo	Car import	2000-2010	Increase ground level and surface of hinterland
No public restrictions for entrance to harbour areas	ISPS facilities	2004- today	Fences, gates, security, surveillance,
Waddensea	Port area for the wind mill industry and related activities	2004- today	New infrastructure Reclaim land Quay and seabed load capacity Capital dredging for channel, extension of fairway and basins. Harbour Mobile Cranes
Port owned by the State	Owned by the community of Esbjerg	2000-	Public focus and access. Esbjerg Strand: room for pleasure boats, art museum,
	Multimodal	2010-2015	Extension of road connection to highway E20. Railterminal.

# Port of Esbjerg

## Offshore facts

80% of Danish offshore Industry are located in Esbjerg

Port of Esbjerg is national base port

Socio-economic effects:

8,000 jobs in Esbjerg

Turnover: 1.2 billion €

Also some US companies:  
Halliburton, Amerada Hess,  
Trans Ocean, Noble Drilling,  
etc.

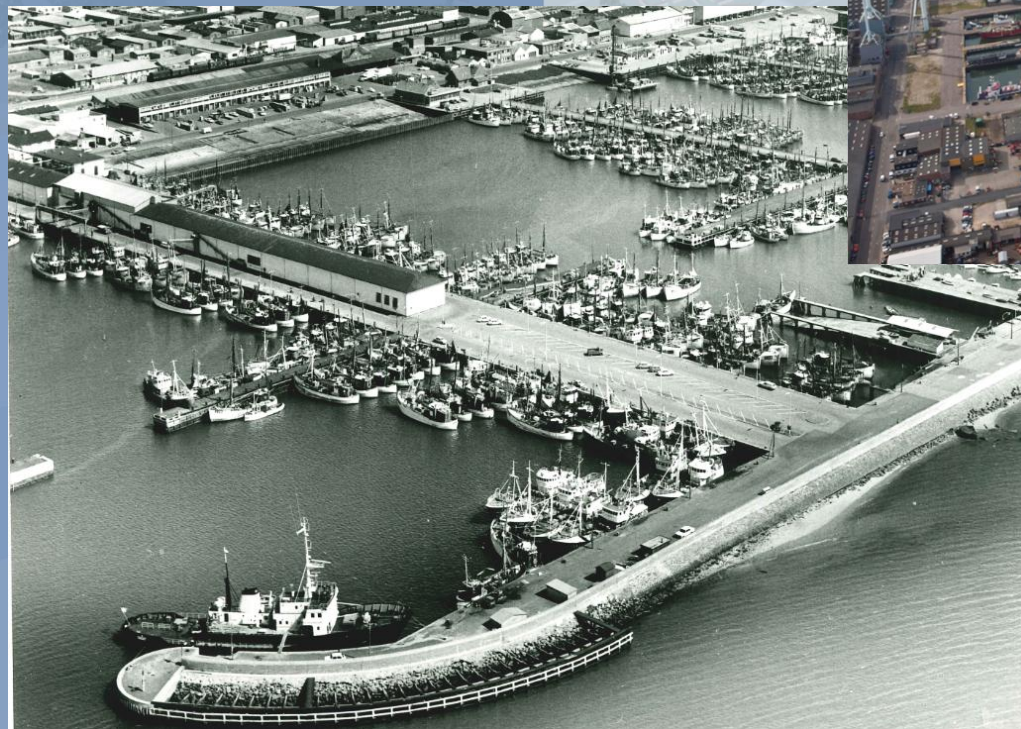


It is estimated that the wind industry currently accounts for 2-3,000 jobs in Esbjerg and surrounding areas



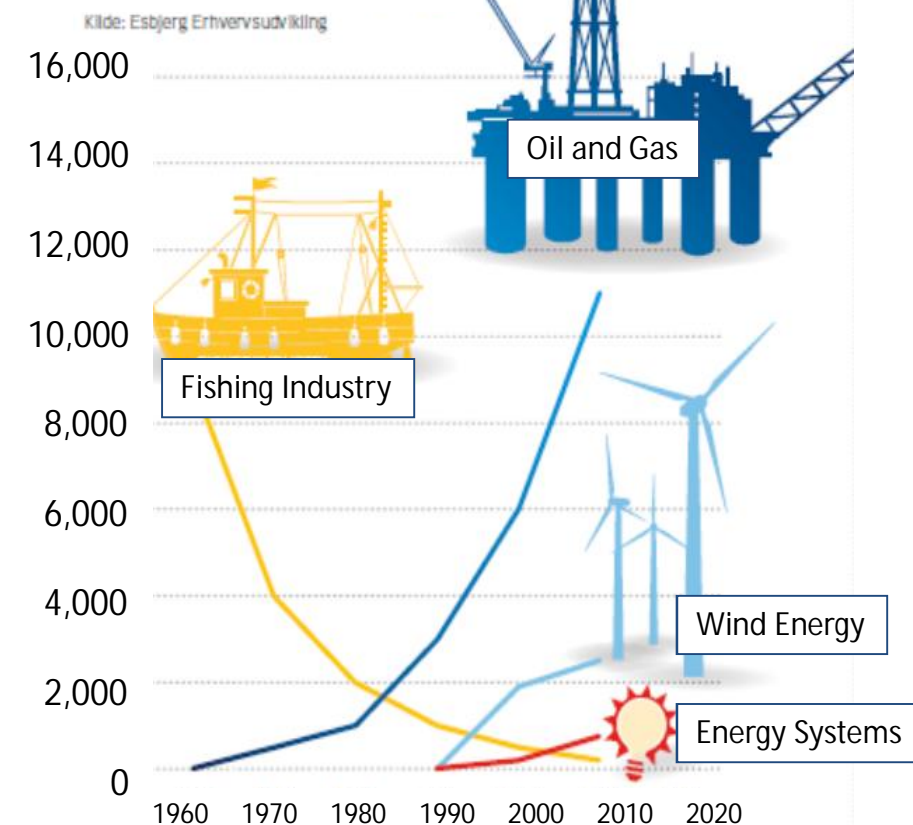
# Port of Esbjerg.

Fishing port 1965



Rig repair 2014

## Workforce development



In Esbjerg area;

Oil & gas: 11.500 employees

Wind energy: 2.500 employees

Energy systems: 850 employees



# Port of Esbjerg



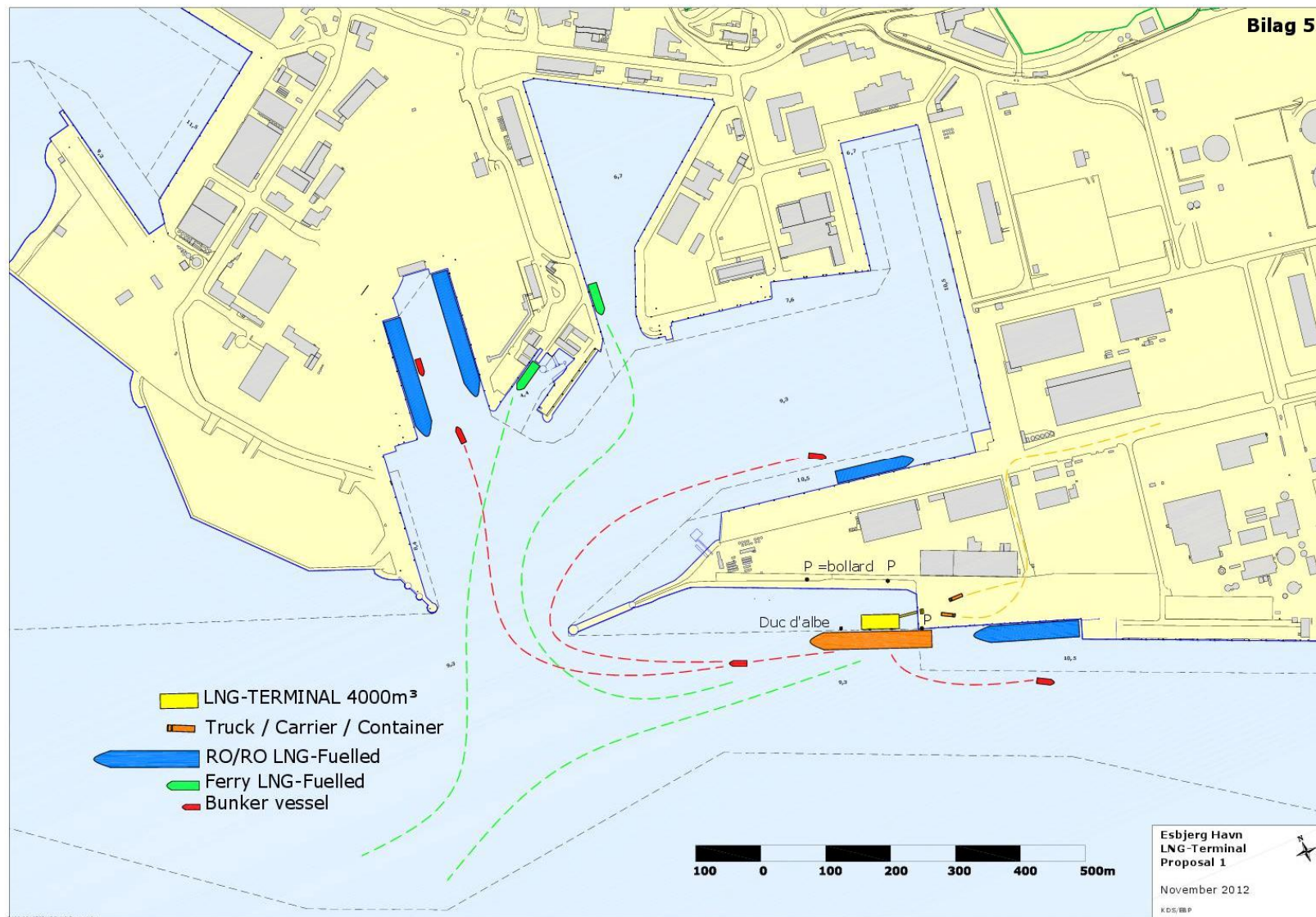
Operation & Maintenance Facility at former fishing port



Crew Vessel



Bilag 5

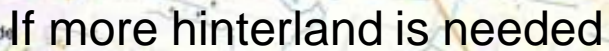


# Port of Esbjerg



From Wadden Sea to new port section 2011-2018







Installation vessel  
Pacific Orca



# Port of Esbjerg





## Port of Esbjerg.



Roundabout for long transport

Loaded test wings, length 83 m









# Masterplan 2009-2019 Dispositionsplan Rev. Maj 2014

## Nordhavn

- Værfts- og serviceområde
- Offshore, Rig-repair, m.m.
- Bunkerterminal
- Forædling af fødevarer og fiskeprodukter
- Tankanlæg for olie og gas
- O & M Serviceshavn

## Esbjerg strand

Kommunalt udviklingsområde med:

- Lystbådehavn
- Domicilbyggeri
- Evt. Kunstmuseum
- Rekreative områder

Forhavn med faciliteter for:

- Lodser
- Redningsvæsen
- Bugserbåde

## Trafikhavn

- Olie og gas terminal
- Styk- og projektgods
- LO/LO og RO/RO terminal
- Offshore

## Dokhavn

- RO/RO terminal og RO/PAX
- Færgeforbindelser
- Center og erhvervsområde
- Bynært serviceområde

## Sydhavn

- Offshore
- RO/RO terminaler
- Projektgods
- Bulk, fast og flydende
- Kule/frys
- Banegods terminal
- LNG terminal

## Østhavn

- Multimodal godsterminal
- RO/RO og LO/LO terminaler
- RO/Pax terminal ( f.eks. færgeterminal til Færøerne, Island )
- Projektgods
- Bulk, høj og plansiloer, råstoffer ( sand, sten, og grus )
- Spulefelt

-  Esbjerg Havn Anlæg på land
-  Esbjerg Havn Anlæg på vand
-  Esbjerg kommune
-  Staten
-  Havnens evt. interesseområde

2. Bassin  
O & M

LNG terminal

0 500 1000 m

Esbjerg Havn  
Maj 2014

# Port of Esbjerg





An aerial photograph of Esbjerg, Denmark, showing the city, harbor, and surrounding landscape. The city is densely packed with buildings, and the harbor is filled with ships and industrial structures. The surrounding landscape is a mix of green fields and urban areas.

Thank you very much for your attention

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