

SkySails

– Wind propulsion for modern shipping –

Athens, May 11th, 2007

Situation



TURN WIND INTO PROFIT

And you thought air travel was bad for the climate ...

Emissions from shipping are more than double those of aviation, reports say



90%

of the world's goods are carried by sea and world trade is increasing all the time

6-800m

tonnes of CO₂ are emitted by the world's ships each year

4-5%

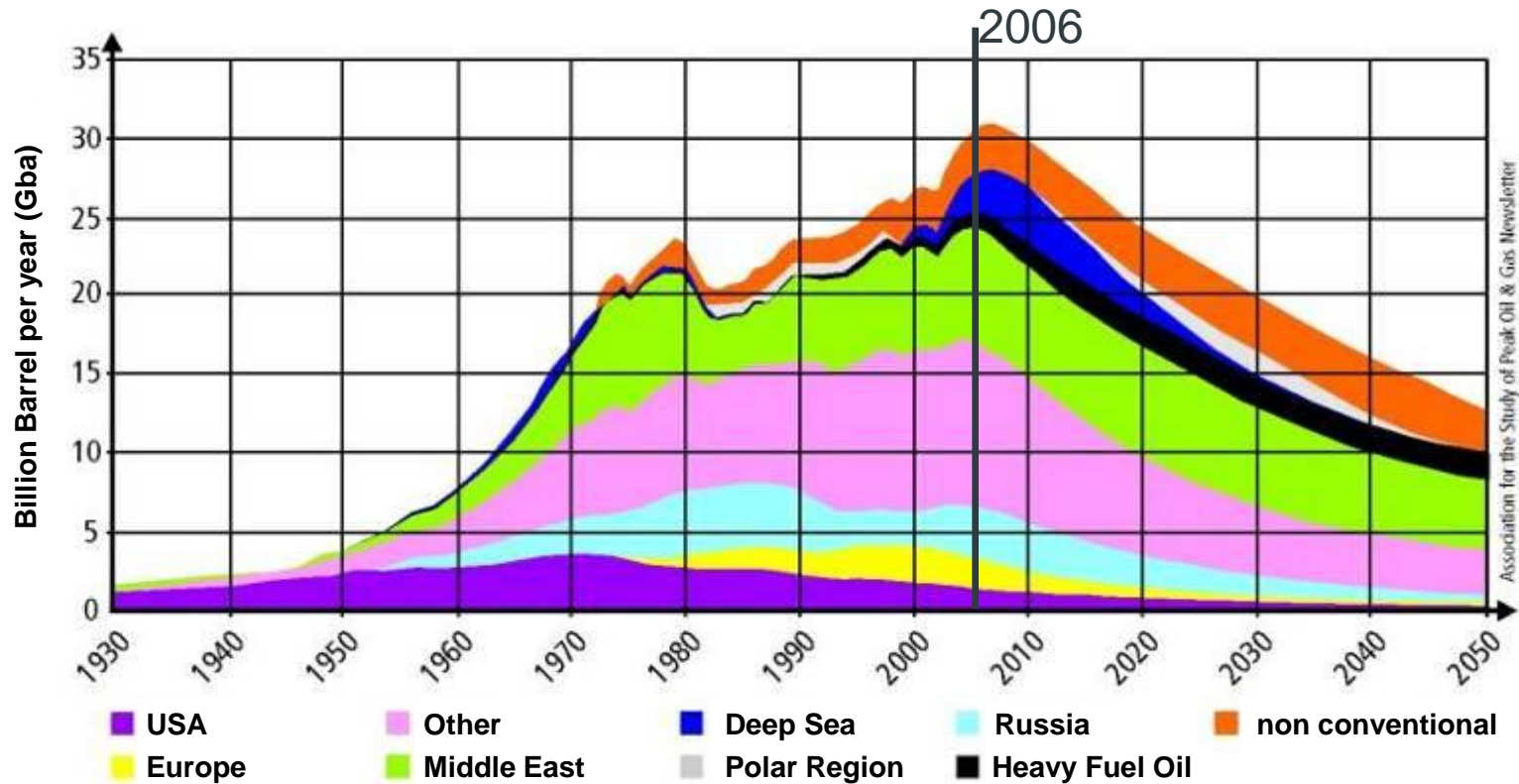
of the world's CO₂ emissions come from marine transport. Aviation accounts for 2%

75%

increase in the amount of fuel used by ships in the next 15-20 years – and it could be more

Peak Oil

Expected oil production



Wind propulsion for modern shipping!



Saving Potential



- Savings:
 - 50%+ in good conditions
 - 10 - 35% on average depending on route
- Example: Rotterdam – Island
 - 95m Feeder
 - 19t MGO total
 - ca. 8.000 € total
 - ca. 1.000 €/day

Reference: MS Beaufort



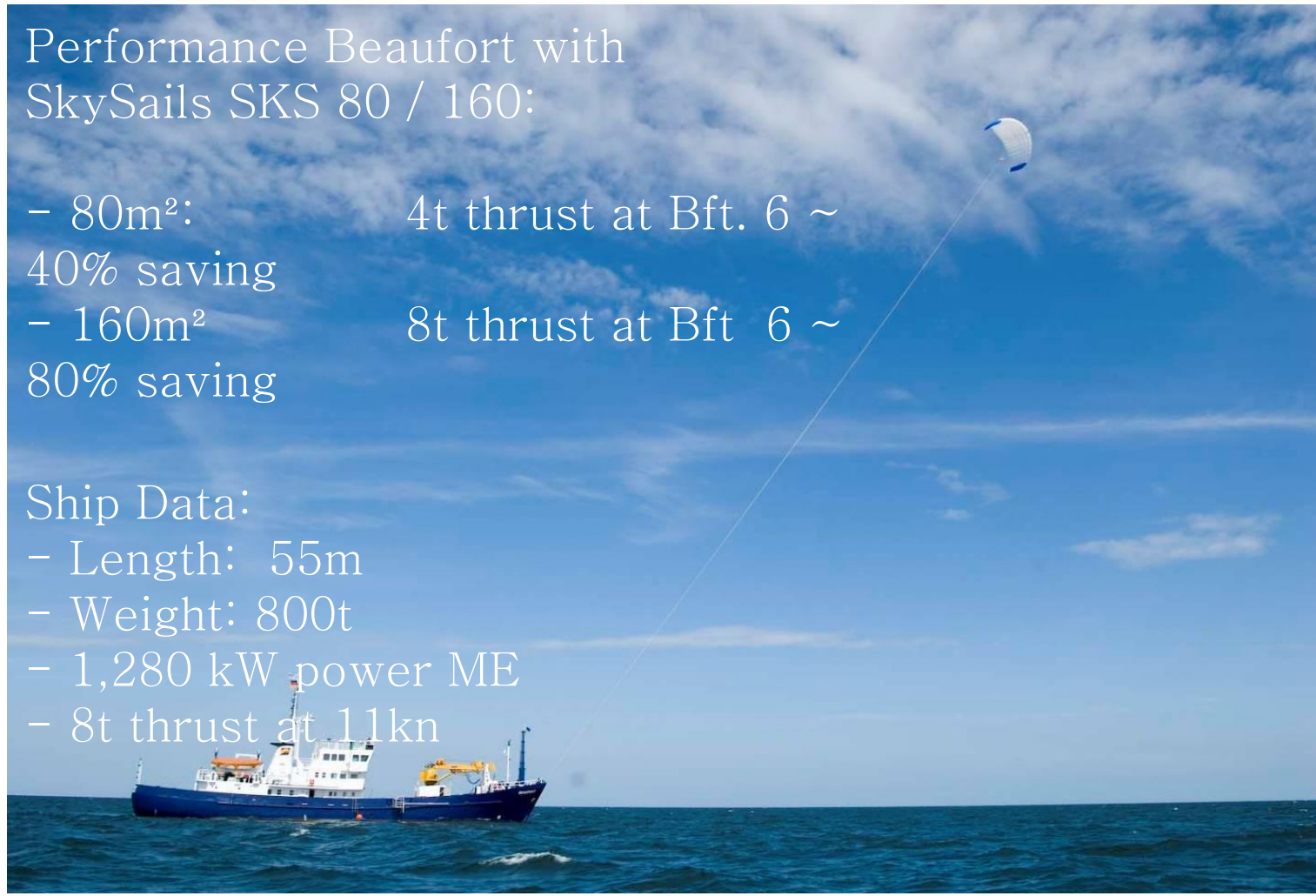
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Performance Beaufort with SkySails SKS 80 / 160:

- 80m²: 4t thrust at Bft. 6 ~ 40% saving
- 160m²: 8t thrust at Bft 6 ~ 80% saving

Ship Data:

- Length: 55m
- Weight: 800t
- 1,280 kW power ME
- 8t thrust at 11kn



System components



Towing Kite



Control Pod



User Interface



Launch & Recovery Mast



Winch



Towing Point

Launch & Retrieval

SkySails

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Skysails markets



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Cargo Vessels

- 2007: First pilot system with Beluga Group
- Length: up to 140m
- SkySails: 160m² - 320m²
- From 2009 on:
- Length: up to 260m
- SkySails: up to 640m



Fish Trawlers

- 2007: First pilot system
- Length: 25 - 140m
- SkySails: 40m² - 320m²



Superyachts

- 2008: First installation for 30m+ Yachts
- Design optimised for SkySails
- Length: 25 - 120m
- SkySails: 40 - 320m²

Welcome aboard.

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