



**Port of Felixstowe**

**Environmental Management  
at the Port of Felixstowe**

**GreenPrint Forum 27<sup>th</sup> October 2008**

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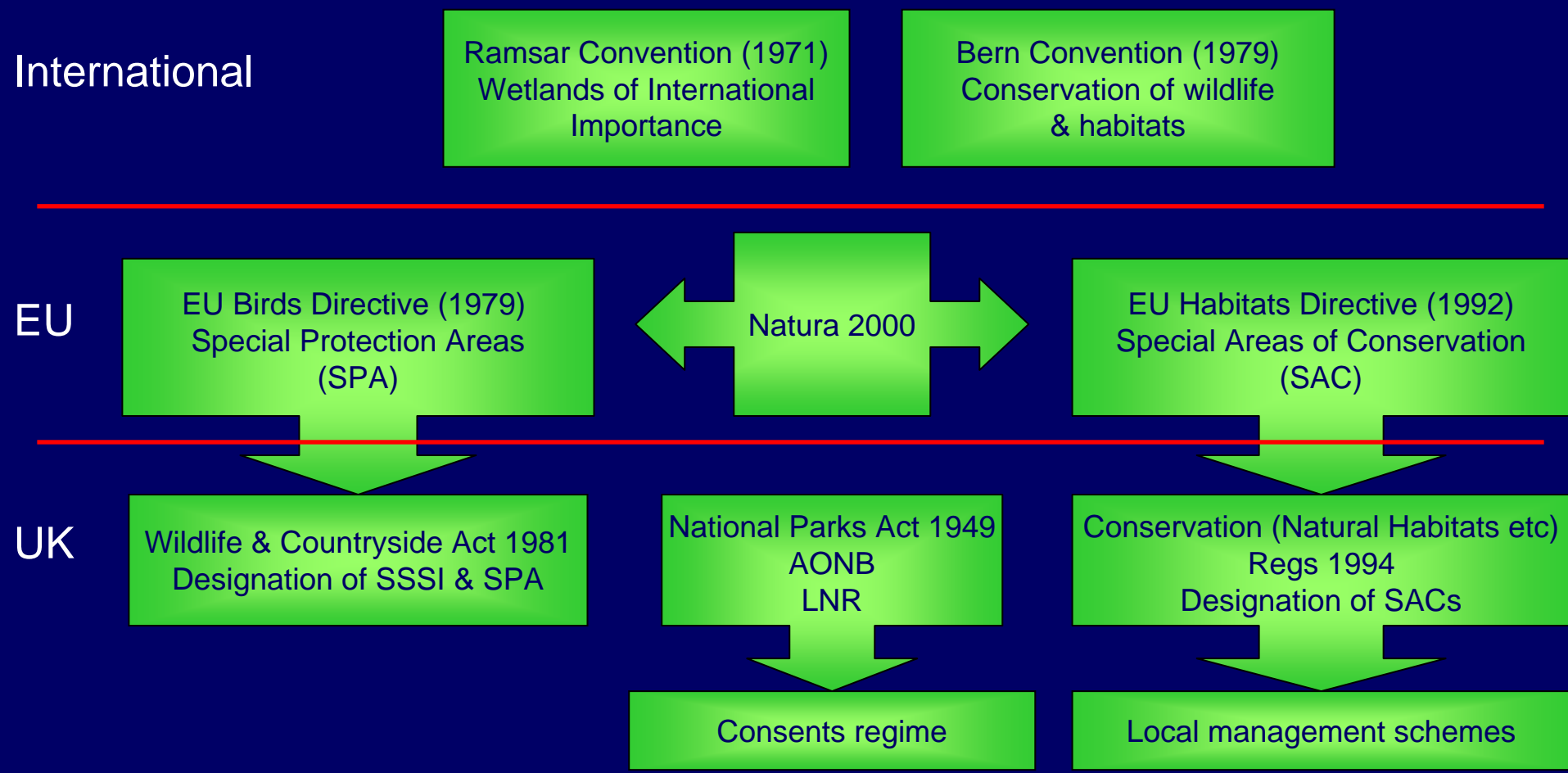
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- Legal framework & other pressures
- The site
- Water
- Waste
- Air
- Energy
- Policy and EMS



# Legal Framework for Nature Protection



# Legal Framework for Pollution Prevention etc



## International

MARPOL

various pollution

UNCLOS

maritime law

London  
Convention

dumping

OPRC

oil pollution

## EU

Ambient Air Quality Directive  
(pending)

Water Framework  
Directive

Waste Framework Directive  
Directive on Port Waste  
Reception Facilities

## UK

Environmental Protection Act

Water Resources Act

Clean Air Act

Control of Pollution Act

Waste Management Licensing  
Hazardous Waste Regs  
Port Waste Reception Facilities  
Regs

Regulations

# Voluntary Codes

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- ESPO Environmental Code of Practice
- ESPO Code of Practice on Birds and Habitats Directives
- EcoPorts Foundation guidance

# External Pressure

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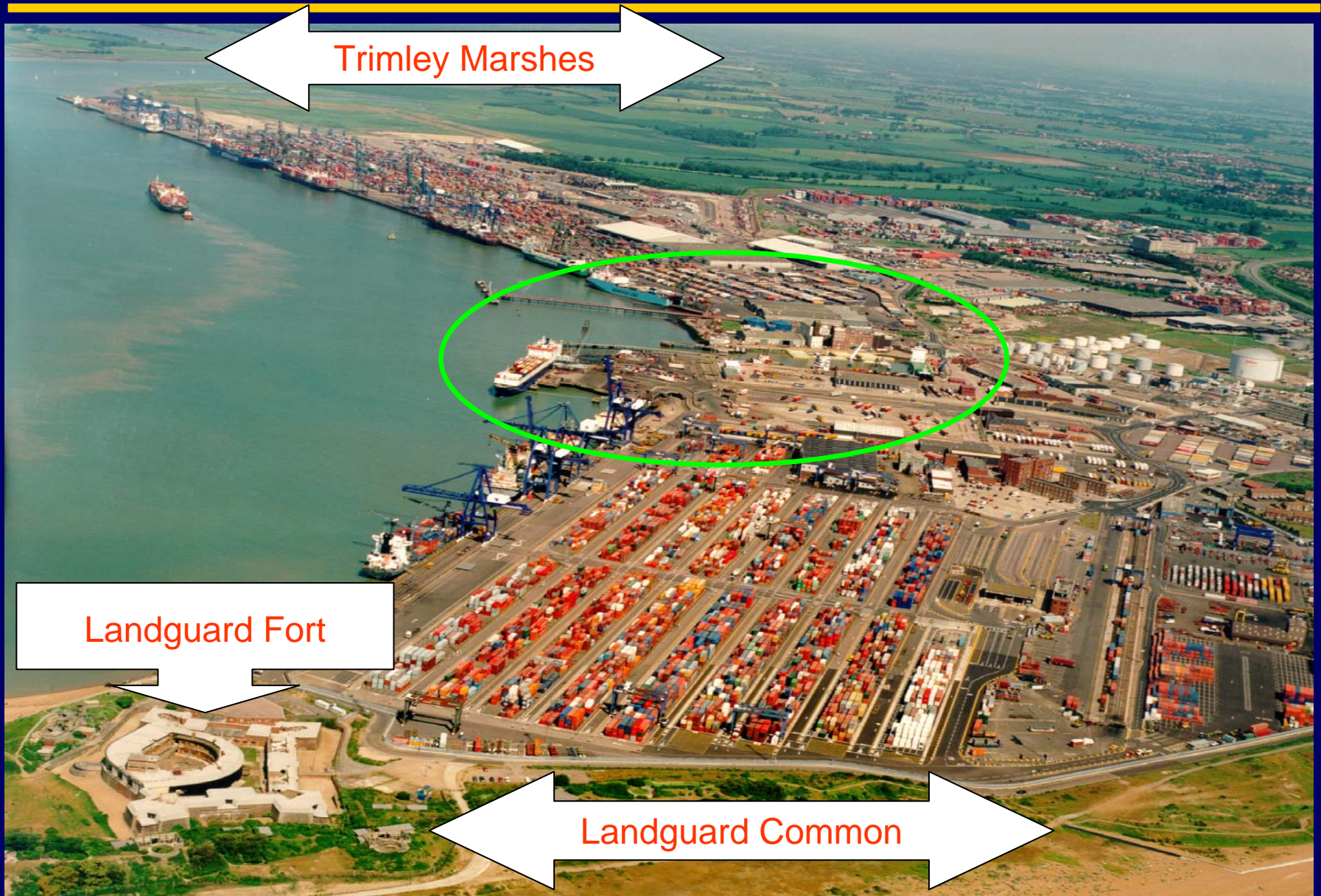
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- Not a big customer issue yet...
- ... but many major retail chains have made commitments on carbon-neutrality...
- ... and will want to examine their supply chains, including ports of entry



# The site



Trimley Marshes

Landguard Fort

Landguard Common

# Water Quality

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- Control of ecological status is through Water Framework, Birds and Habitats Directives, UK Regulations
- PoF is not the harbour authority – HHA have the main conservancy role

# Water Quality



## Stour and Orwell Management Group

representatives from business, local authorities, government agencies, conservation charities and local interest groups



# Water Quality

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- Drainage is a combination of dykes and pipes
- Dykes are jointly owned Port/Anglian Water
- Three-way partnership with EA to achieve practical solutions, eg discharge consents



# Oil Storage



- Engineering workshops
- Vehicle and plant fuelling
- Mobile bowzers and service wagons
- Heating oil
- Annual purchase circa 16M litres
- Total storage circa 200,000 litres





# Pollution Control

## Major Incident Response

### *Planning*

- Oil pollution response plan
- Liaison with Harwich Haven Authority
- Haven Oil Working Group

### *Action*

- PoF internal emergency services
- Tug vessels
- HHA resources
- Environment Agency
- MCA

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# Waste

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- August 2005: 12 contractors servicing the Port
- Problems included:
  - litter
  - mixing waste
  - poor control of skip usage
  - fly-tipping
  - stockpiling
  - lack of awareness/understanding

# Waste

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- April 2007: Single partnership for all waste management...
- ...also including
  - grounds maintenance
  - litter clearance
  - road sweeping
  - gully, oil separator & cesspit emptying
- November 2008: SCS commence contract for 5 years on an agreed SLA
- Flexible, reactive, on-site establishment

# Waste



Landfill is taxed in the UK to encourage alternative disposal methods and better recycling/reuse





# Waste - initiatives

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## Ships' waste

EU: Directive 2000/59/EC

UK: Merchant Shipping and Fishing Vessels  
(Port Waste Reception Facilities) Regulations  
2003

- Requirement to take all operational waste from ships calling at port
- Little limitation in practice on waste type





# Waste - initiatives

## Ships' waste – old system

- Problems with skips and keeping 'garbage' and 'international catering waste' separated
- Twin skips not effective
- 100% to landfill



# Waste - initiatives



- New scheme from April 2007 uses trailer and labelled bins for ships' waste
- Successful trial expanded to four units
- Crew information sheets
- Proven increase in recyclable recovery

# Waste - initiatives

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## Office paper/card

- Earlier system not effective/poorly resourced
- New system devised
- Make use of cleaners
- Supply dedicated bins
- Arrange regular emptying
- Typically 2 tonnes/week collected



Now targeting drinks cans and bottles

# Air Quality



- A big user of diesel fuel
- Some haulier and weather impact
- Shipping emissions also a concern



- SCDC monitoring NO<sub>2</sub>
- Port monitoring NO<sub>2</sub>, PM<sub>10</sub>
- AQMA pending, Dock Gate 2
- Further research/monitoring



# Air Quality

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## What are we doing?

- Encouraging fuel efficiency: lights off, engines off
- Engineering measures: newer engines, better control systems
- Programme of fleet renewal
- Trialling hybrid drive on RTG

# Energy use



- Electricity consumption over 47 million kWh/year = 20,000 tonnes CO<sub>2</sub>
- Issues include building age/efficiency, old technology, culture
- Looking at wind & other renewable power
- Possible savings of 17 million kWh (7,000 tonnes CO<sub>2</sub>) identified with help from the Carbon Trust
- Carbon Management work over next 1-3 years – strategic and ground-level

# Noise and Light

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- Can be a nuisance to local community
- Lighting direction and colour
- Occasional complaints of noise
- Continuing liaison with locals
- Planning requirements for mitigation



# Future Work

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- Starting programme with UKCIP
- Carbon Management continues
- New RTGs will be 'eco' versions
- FSR opportunities to look at buildings

# Environmental Management System



- PERS December 2006
- Acorn Phase 3 November 2007
- Acorn Phase 4 November 2008?
- Next job: ISO14001 certified EMS
- Environmental Committee –  
executive level: strategy & policy



Questions?