1963–2013
concawe
years delivering science for Europe

Session One:
Environment and Emissions

Franck Chevallier
TOTAL

10th CONCAWE Symposium

25th-26th February 2013

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- **Introduction to Session One: Environment and Emissions**
  - **Session Chair: Franck Chevallier, TOTAL**

- **Industry performance and contributions over 50 years**
  - **Speaker 1: Les White, Les White Associates**

- **Air Quality: Air Quality Policy Review**
  - **Speaker 2: Scott Brockett, DG-Environment**

- **Water Quality: Industry performance over 50 years**
  - **Speaker 3: Graham Whale, Shell**

- **Water Quality: Water and waste challenges looking forward**
  - **Speaker 4: Klaas den Haan, CONCAWE**

- **Session One: Questions, Answers, and Discussion**

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- ▸ **CON**servation of **C**lean **A**ir and **W**ater in **E**urope association was born **50** years ago when the European Economic Community had 5 years

- ▸ The oil refining industry has contributed actively over this long period to improve EU air and water quality through investments in reducing their emissions and with cleaner products

- ▸ For this, CONCAWE has always promoted three operating principles:
  - ▪ Sound science
  - ▪ Cost-effectiveness of technical options
  - ▪ Transparency of results

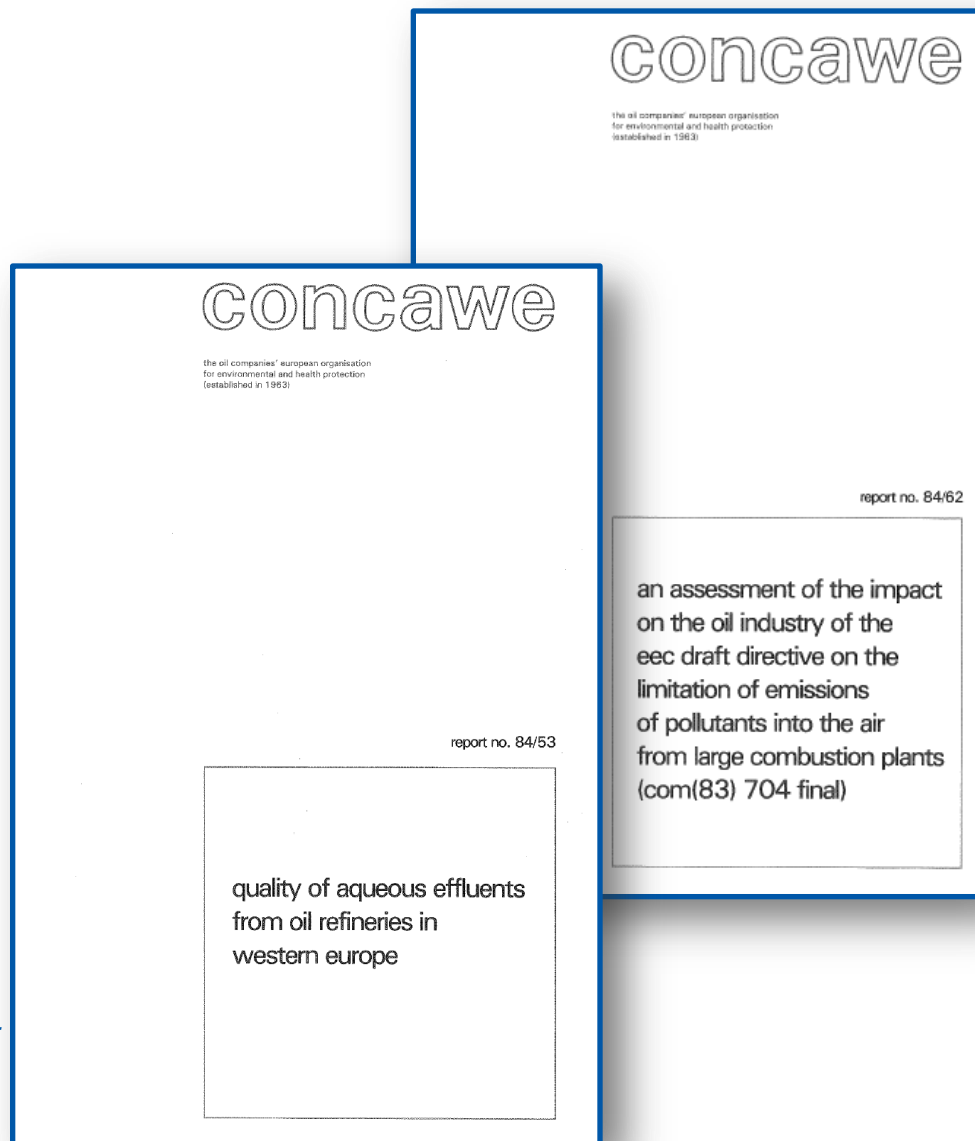- ▸ Significant progress has been achieved for air and water emissions
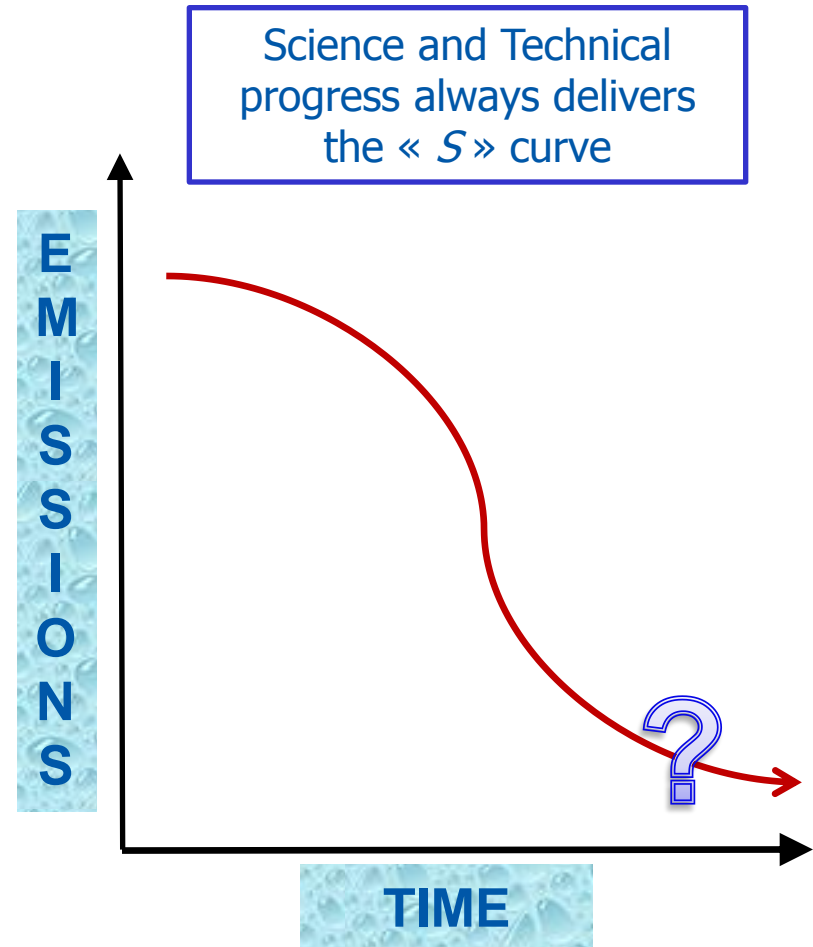
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- ➤ Refinery industry progress:
  - More production of fuels
  - More sulphur extraction
  - Less emissions from fuels combustion

- ➤ Refining SO_2 emissions has decreased by more than 60% between 1990 and 2010

- ➤ "Considerable success has been achieved in reducing the discharge of pollutants to fresh and coastal waters, leading to considerable freshwater water quality improvements."

  2010 State of the European Environment and Outlook Report, EEA, 2010

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the oil companies' european organisation
for environmental and health protection
(established in 1963)

report no. 84/62

an assessment of the impact on the oil industry of the eec draft directive on the limitation of emissions of pollutants into the air from large combustion plants (com(83) 704 final)

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the oil companies' european organisation
for environmental and health protection
(established in 1963)

report no. 84/53

quality of aqueous effluents from oil refineries in western europe

▸ Two words that go together well but in two opposite directions:

- Improving Environment impacts needs to decrease the Emissions

▸ Two words closely linked by:

- Source/ Receptor functions
- Environmental Quality Standards
- Emissions Limit Values

▸ A curve in "S" for progress

▸ An inverse curve for emissions

▸ **The key questions:**

- **Are further reductions needed ?**
- **What can be still achieved ?**
- **Which reasonable timeline ?**

Science and Technical progress always delivers the « S » curve

EMISSIONS

TIME

?

TSAP
Thematic Strategy on Air Pollution
CAFE

Air Emissions

PRTR Pollutants Release and Transfert Register

Transparency Declaration

CARE Package
& EU ETS
Directive

NEC National Emission Ceilings

Air Ambient Quality Directive

IED Industrial Emission Directive

BREF/BAT

CO_2 Quotas

CO_2

Air Quality Legislation

Climate Legislation

Renewables Directive & FQD 7a

Soil, Water and Waste Legislation

Fuel Products Legislation

Waste Directive

Fuels Quality Directive

Product Specifications

Soil Directive Proposal

Water Framework Directive

Protection of groundwater against pollution Directive

Environmental Liability Directive

REACH

Substances Directive

Marine Fuel changes, IMO

Suppression/reduction of the emissions of priority dangerous substances

Reduction/ Suppression of dangerous substances