

Frank Jensen
MSc (Biologist)

Danish Environmental Protection Agency
Chemicals Division

Background

1996

The Danish Minister for Environment and Energy wants “*a phase-out in ten years time in new equipment or products from the cooling industry*”

1997 Kyoto protocol

EU:

Reduce the emissions by 8%

Denmark:

Reduce the emissions by 21%

Background for the plan

Economic support

Programs for cleaner technology/products

- Development of alternatives
- Report on existing or development of substitutes

January 2000

**Proposal for regulating the
industrial greenhouse gases**

The plan

Goal:

Reduce the emissions of CO₂

Methods:

- **A general tax on the use of the gases**
- **Phase-out dates for new equipment or products**

The tax:

**Based on the Danish CO₂ tax
correlated with GWP**

(CO₂ tax is \$11.4 per ton CO₂)

SF₆:

- GWP is 23.900 CO₂-eqv**
- Tax should be \$272,460 per ton SF₆**
- Maximum of \$46,000 per ton gas**

TAX IS \$46,000 per ton SF₆

The phase-out plan

General phase-out January 1st 2006

Exemptions:

- **SF₆ in magnesium casting:**
July 1st 2001
- **SF₆ in shoes:**
January 1st 2003
- **SF₆ in noise-proofing windows:**
January 1st 2003
- **SF₆ as tracer gas:**
January 1st 2002

General phase out January 1st 2006

Exemptions:

- **SF₆** as insulating gas in electrical switchgear:
Allowed until further notice
(collecting and recycling scheme)
- **Laboratory equipment:**
Allowed until further notice

SUMMARY

The plan for reducing the emissions of the industrial greenhouse gases is a combination of:

Tax

Phase-out

Parliament is still discussing the plan