

### Appendix 3 CO<sub>2</sub> emissions in Greenland and the Faroe Islands

In the Faroe Islands a major work was made in 2002 to produce a revised and more comprehensive greenhouse gas inventory as required by the IPCC guidelines (Lastein et al., 2003). The work comprised emission estimates of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O for the years 1990-2001. However, because of limited resources the inventory work was not continued to produce emission figures for 2002, and due to lack of emission data the 2001 total is repeated for 2002.

For Greenland only totals for CO<sub>2</sub> emissions from fossil fuels are reported. However, fossil fuels are expected to be the most important sources of greenhouse gases in this region. Figures for CO<sub>2</sub> emissions from 1990 to 2002 are given in the table below.

The significant increase in CO<sub>2</sub> emissions from 1998 to 2001 is mainly due to more fuel use in the fishery, public electricity and manufacturing industry sectors, while the CH<sub>4</sub> and N<sub>2</sub>O emission increases (the Faroe Islands) are due to rising activity in the agricultural sector.

The possibilities for corresponding improvement in statistics and greenhouse gas inventories in both Greenland and the Faroe Islands will be investigated.

*Table 1 Estimation of greenhouse gas emissions in Greenland and the Faroe Islands 1990 –2002.*

	<b>Greenland</b>	<b>Faroe Islands</b>		
	<b>Gg CO<sub>2</sub></b>	<b>Gg CO<sub>2</sub></b>	<b>Mg CH<sub>4</sub></b>	<b>Mg N<sub>2</sub>O</b>
1990	624	654	853	73
1991	609	630	885	78
1992	594	619	881	78
1993	0	502	875	73
1994	494	510	906	79
1995	523	517	909	81
1996	564	547	904	81
1997	575	532	935	86
1998	550	572	908	83
1999	585	608	920	87
2000	659	658	959	97
2001	617	730	972	101
2002	577	730	972	101

#### References

Lastein, L. & Winther, M. 2003: Emission of greenhouse gases and long-range transboundary air pollutants in the Faroe Islands 1990-2001. National Environmental Research Institute. - NERI Technical Report 477 (electronic): 62 pp.

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