

## Environmental profile

Södra has a strong environmental profile:

- All wood is traceable and forest operations are certified under PEFC or FSC.
- All mills have highly closed process water systems, made possible by the TCF (65%) and ECF (35%) bleaching methods.
- Modern effluent treatment and other environmental process systems ensure most emissions are well below BAT.
- We have a highly efficient energy system. Mills deliver electricity, district heating and biofuel to the community.
- Södra has extremely low greenhouse gas emissions. The proportion of biofuel in our fuel mix is world-leading. Södra is more than carbon neutral when carbon sequestration in the forest, district heating and electricity production is taken into account.

## Use of resources, production and environmental impact

		2011	2010	2009	2008
<b>Raw Materials</b>	Wood (m <sup>3</sup> sub)	1 687 000	1 812 000	1 959 000	1 900 000
	Chemicals, Oils etc. (tonnes)	70 900	63 700	67 300	68 200
	Water (Mm <sup>3</sup> )	28	26	30	31
	Other raw materials (tonnes)	813	896	991	965
<b>External energy</b>	Fossil fuel (MWh)	226 000	229 000	189 000	231 000
	Of which fuel oil (m <sup>3</sup> )	20 800	17 800	17 300	21 300
	Purchased biofuel (MWh)	73 300	61 600	73 200	15 300
	Purchased electricity (MWh)	6 390	6 740	3 170	6 220
<b>Products/By-products</b>	Pulp (ADt)	384 000	405 000	442 000	421 000
	Tall oil (tonnes)	2 800	1 600	0	2 100
	Turpentine (tonnes)				
	Ash (tonnes)				
	Lime sludge (tonnes)	4 110	136	856	1 970
	Reject pulp (tonnes)	5 510	3 560	2 250	3 840
	Thermal energy (MWh)	168 000	181 000	175 000	153 000
	Biofuel (MWh)	39 700	23 400	4 700	28 800
	Electricity (MWh)	33 600	37 600	32 600	27 500
	<b>Air emissions</b>	Gaseous Sulphur as SO <sub>2</sub> (tonnes)	303	281	274
NO <sub>x</sub> as NO <sub>2</sub> (tonnes)		508	534	538	554
Dust (tonnes)		121	275	158	198
CO <sub>2</sub> – fossil (tonnes)		65 500	62 700	57 100	66 500
CO <sub>2</sub> – biogenic (tonnes)		864 000	956 000	1 072 000	1 099 000
<b>Water emissions</b>	AOX (tonnes)	20	24	24	26
	COD (tonnes)	7 450	6 810	7 450	7 180
	TOC (tonnes)	2 760	2 520	2 760	2 650
	BOD <sub>7</sub> (tonnes)	705	767	727	575
	TSS (tonnes)	1 600	1 140	1 450	874
	SS 70 (tonnes)				272
	N <sub>tot</sub> (tonnes)	137	131	156	102
<b>Waste</b>	P <sub>tot</sub> (tonnes)	22	19	18	13
	Deposited waste (BD tonnes)	12 400	12 700	16 700	9 600
	Hazardous waste (tonnes)	78	135	35	97