

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
Raw Materials	Wood (m ³ sub)	1 901 000	2 116 000	1 888 000	1 899 000
	Chemicals, Oils etc. (tonnes)	64 200	75 700	60 700	64 700
	Water (Mm ³)	36	38	35	37
	Other raw materials (tonnes)	916	1 010	889	884
External energy	Fossil fuel (MWh)	47 000	69 000	120 000	93 000
	Of which fuel oil (m ³)	4 070	5 870	10 100	7 040
	Purchased biofuel (MWh)	196 000	227 000	200 000	260 000
	Purchased electricity (MWh)	25 630	12 930	29 560	31 210
Products/By-products	Pulp (ADt)	388 000	430 000	379 000	383 000
	Tall oil (tonnes)	7 420	8 990	6 180	5 450
	Turpentine (tonnes)	350	319	180	139
	Ash (tonnes)	140	0	799	176
	Lime sludge (tonnes)	28 000	17 300	41 400	11 700
	Reject pulp (tonnes)	2 930	4 840	531	0
	Thermal energy (MWh)	195 000	227 000	170 000	180 000
	Biofuel (MWh)	258 000	250 000	180 000	61 000
	Electricity (MWh)	95 500	99 600	63 100	56 800
	Air emissions	Gaseous Sulphur as SO ₂ (tonnes)	220	138	177
NO _x as NO ₂ (tonnes)		477	550	480	434
Dust (tonnes)		69	91	142	104
CO ₂ – fossil (tonnes)		14 600	21 700	35 200	27 900
CO ₂ – biogenic (tonnes)		906 000	1 011 000	977 000	967 000
Water emissions	AOX (tonnes)	0	0	0	0
	COD (tonnes)	7 100	6 930	8 170	5 540
	TOC (tonnes)	2 630	2 570	2 920	2 690
	BOD ₇ (tonnes)	868	973	912	912
	TSS (tonnes)	979	1 360	236	960
	SS 70 (tonnes)	229	206	214	245
	N _{tot} (tonnes)	103	108	118	123
	P _{tot} (tonnes)	9	13	12	11
Waste	Deposited waste (BD tonnes)	2 800	1 040	2 060	6 820
	Hazardous waste (tonnes)	432	97	181	255