



2013 EMISSIONS FROM CURRENTLY OPERATING PLANTS

SO₂ 400mg/Nm³ NO_X 500mg/Nm³ DUST 50mg/Nm³

550 PREMATURE DEATHS

340

CASES OF CHRONIC BRONCHITIS (ADULTS)

149,020 WORK DAYS LOST

18,820 ASTHMA SYMPTOM DAYS (CHILDREN)

€1,560m

TOTAL HEALTH COSTS

(MILLION EUROS)

(VSL. HIGH VALUE)

2013 PRICES

2016 IED LIMITS

SO₂ 200mg/Nm³ NO_X 200mg/Nm³ DUST 20mg/Nm³

250 PREMATURE DEATHS

160
CASES OF CHRONIC BRONCHITIS (ADULTS)

70,790 WORK DAYS LOST

9,420
ASTHMA SYMPTOM
DAYS (CHILDREN)

€720m

TOTAL HEALTH COSTS

(MILLION EUROS)

(MILLION EUROS)

(VSL, HIGH VALUE)
2013 PRICES

PROPOSED BREF LIMITS

 $$02\ 130 \text{mg/Nm}^3$$NO_X\ 175(L)/150(HC)\ \text{mg/Nm}^3$$DUST\ 8 \text{mg/Nm}^3$$$

200 PREMATURE DEATHS

130
CASES OF CHRONIC
BRONCHITIS (ADULTS)

55,660 WORK DAYS LOST

7,670
ASTHMA SYMPTOM
DAYS (CHILDREN)

€570m TOTAL HEALTH COSTS (MILLION EUROS)

(MILLION EUROS)

(VSL, HIGH VALUE)
2013 PRICES

BEST AVAILABLE TECHNIQUES (BAT)

SO₂ 10mg/Nm³ **NO**_X <85(L)/65(HC) mg/Nm³ **DUST** 2mg/Nm³

70 PREMATURE DEATHS

CASES OF CHRONIC BRONCHITIS (ADULTS)

16,140 WORK DAYS LOST

2,730
ASTHMA SYMPTOM DAYS (CHILDREN)

€190m

TOTAL HEALTH COSTS
(MILLION EUROS)

(VSL, HIGH VALUE)
2013 PRICES

¹ Excluding dust emissions for Melitis (Florina) and Megapoli A.

TABLE DEROGATIONS OVERVIEW (GREECE)

2013 Currently operating plantsIED 2016 IED limitsBRFF Proposed BRFF limits

BREF Proposed BREF limits
BAT Best Available Techniques

LLD	Limited Lifetime
ΓNΡ	Transitional National Pla

COUNTRY /	Coal type	MWel	PREMATURE DEATHS				Derogation
Plant name			2013	IED	BREF	BAT	
GREECE							
Agios Dimitrios	Lignite	1,456	270	106	77	18	TNP
Amintaio	Lignite	546	78	34	25	6	LLD
Melitis (Florina)	Lignite	289	7	7	7	2	TNP
Kardia	Lignite	1,110	94	55	50	12	LLD
Megalopoli A	Lignite	481	10	10	10	11	TNP
Megalopoli B	Lignite	256	16	16	16	13	TNP
TOTAL	ī	4,138	475				ī

Six out of its seven lignite plants are making use of derogations. This corresponds to **88% of its total coal generation capacity and 475 premature deaths**. Kardia and Aminthaio are in the LLD and all other plants, except Ptolemaida, are covered by the TNP derogation.

Greece had a high share of coal plants in previous derogation systems, such as opt-out derogations and the National Emission Reduction Plan), which ended in 2016.

The Greek TNP lists four LCPs, all of which are lignite fired. This will delay the introduction of IED limits until mid-2020. The following extra pollution could be prevented each year if lignite plants would be withdrawn from the TNP:

TABLE POLLUTION LIMITS (GREECE)

POLLUTANT (in tonnes)	2013 emissions (same plants)	Derogations allow pollution up to	'	Extra pollution allowed each year	TOTAL extra coal pollution allowed due to TNP (2016-Mid 2020)
SO ₂	30,706	34,961	17,482	17,479	78,656
NO _X	18,410	17,482	17,482	-	-
Dust	603	6,505	1,749	4,756	21,402

GENERAL ASSESSMENT OF POSITION TAKEN IN LCP BREF REVIEW RELATING TO COAL:

The Greek authorities have actively lobbied to water down stricter standards for lignite power plants. This does not come as a surprise considering that all representatives of the official Greek delegation were employed by PPC. S.A, the owner of these plants. Greece also pushed more relaxed emission limits for all pollutants.









