

# LIFTING SPAIN'S DARK CLOUD

HOW CUTTING COAL SAVES LIVES

FIGURE

## IMPACT OF STRICTER LIMITS ON COAL POLLUTION IN SPAIN

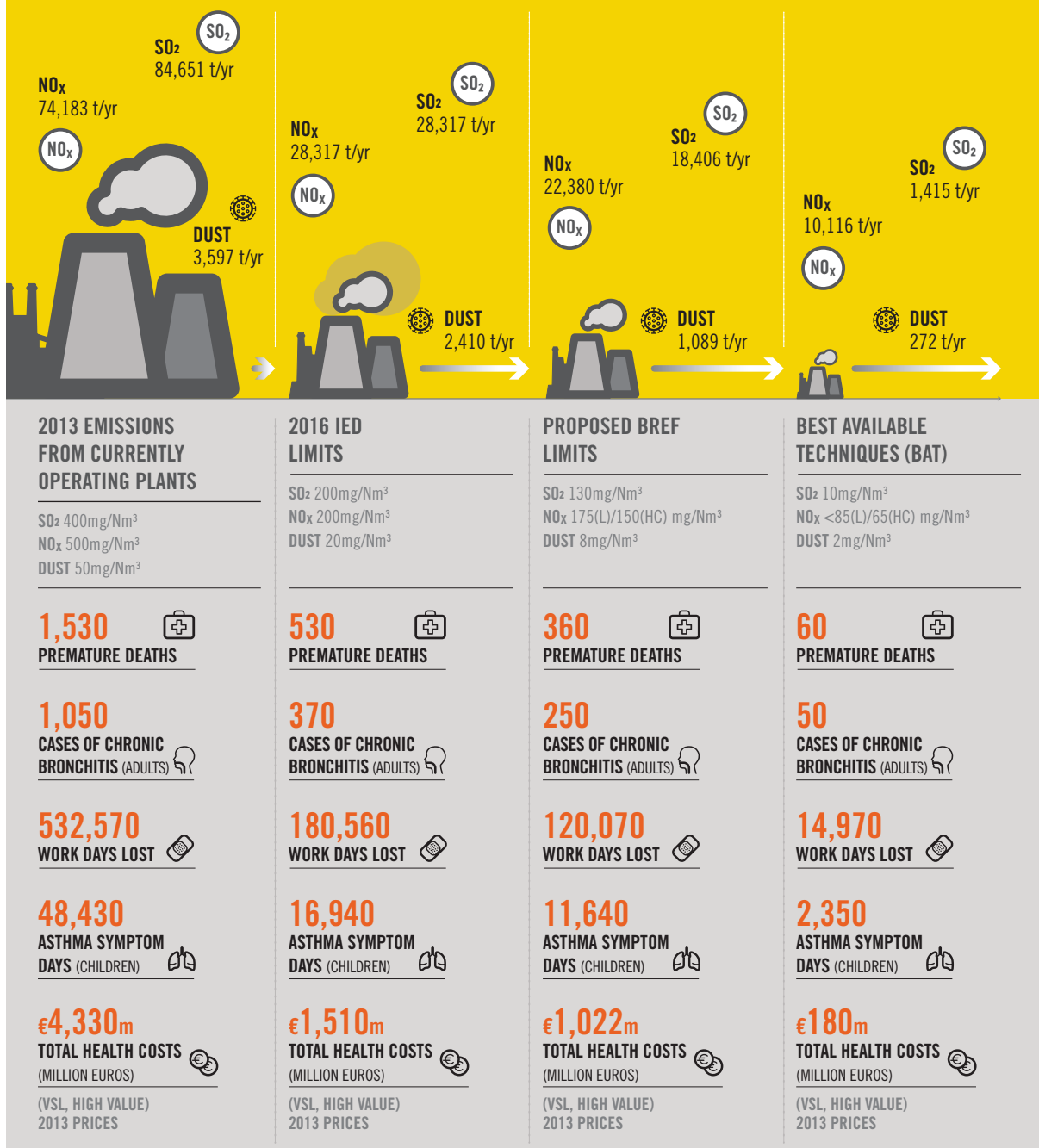


TABLE DEROGATIONS OVERVIEW (SPAIN)

**2013** Currently operating plants  
**IED** 2016 IED limits  
**BREF** Proposed BREF limits  
**BAT** Best Available Techniques  
**DR** Desulphurisation Rate  
**LLD** Limited Lifetime  
**SIS** Small isolated systems  
**TNP** Transitional National Plan

COUNTRY / Plant name	Coal type	MWel	PREMATURE DEATHS				Derogation
			2013	IED	BREF	BAT	
<b>SPAIN</b>							
Litoral	Hard coal	1,012	177	71	47	8	<b>TNP</b>
Abono	Hard coal	848	140	92	61	10	<b>TNP</b>
Puente Nuevo	Hard coal	298	16	8	5	1	<b>TNP</b>
Lada	Hard coal	472	32	18	12	2	<b>TNP</b>
La Robla	Hard coal	570	57	21	14	2	<b>TNP</b>
Los Barrios	Hard coal	570	51	34	23	4	<b>TNP</b>
Meirama	Lignite	509	90	34	24	5	<b>TNP</b>
Soto de Ribera	Hard coal	628	46	14	10	2	<b>TNP</b>
Anllares	Hard coal	336	110	11	7	1	<b>LLD</b>
Compostilla II	Hard coal	1,098	131	32	22	4	<b>TNP</b>
Alcudia II	Hard coal	469	83	34	23	4	<b>SIS</b>
Narcea	Hard coal	547	27	12	8	1	<b>TNP</b>
Velilla	Hard coal	458	38	13	9	1	<b>TNP</b>
Andorra	Lignite	966	398	49	34	6	<b>TNP / DR</b>
As Pontes	Lignite	1,403	134	89	61	12	<b>TNP</b>
<b>TOTAL</b>		<b>10,184</b>	<b>1,530</b>				

All of the 15 Spanish coal plants are making use of 'derogations'. This corresponds to **100% of its total coal generation capacity and 1,530 premature deaths**.

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

Out of the 15 coal-fired LCPs, the **Spanish TNP** lists 13 coal-fired LCP (three of which are lignite fired). This will delay the introduction of the IED limits until mid-2020. The following extra pollution could be prevented each year if coal plants were withdrawn from the TNP:

TABLE POLLUTION LIMITS (SPAIN)

POLLUTANT (in tonnes)	2013 emissions (same plants)	Derogations allow pollution up to	Maximum pollution under 2016 IED limits	Extra pollution allowed each year	<b>TOTAL</b> extra coal pollution allowed due to TNP (2016-Mid 2020)
SO <sub>2</sub>	73,551	106,477	45,109	61,368	<b>276,156</b>
NO <sub>x</sub>	66,313	73,892	39,047	34,845	<b>156,803</b>
Dust	3,210	9,905	3,951	5,954	<b>26,793</b>

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

The Spanish authorities (MAGRAMA) have been actively seeking to downgrade the ambition level on hardcoal standards. They argued in favour of relaxing all parameters and introducing loopholes that would affect the operation of hardcoal and lignite plants. Spain also

proposed that its coal and lignite plants which do not even meet the IED limits should be listed as "BAT candidates". Spain opposed, in particular, any mercury limit and its continuous monitoring, asked for relaxed limits for dust emission levels and opposed a strengthening of the NO<sub>x</sub> level for hardcoal plants.