

## Germany

It is estimated that cleaner air in Germany resulting from the achievement of a '30% internal' rather than a 20% reduction in emissions would result in health benefits of up to €8.1 billion per year from 2020 (estimated range €2.8 billion to 8.1 billion).

Health benefits include:

- An increase in life expectancy of 38,000 years spread across the population.

- Better health and lower health costs: 3.5 million fewer days of restricted activity; 332,000 fewer days when people need to use respiratory medication; 38,000 fewer consultations for upper respiratory symptoms and asthma.

Other benefits: A more productive workforce - 801,000 fewer working days lost annually due to cardiac and respiratory problems.

Impact assessment, all figures per year	Baseline in 2020	Reduction in EU damage in 2020 compared to the baseline for	
	Following 20% cut	Cut of 30% with flexibility	-30% internal cut
Mortality - Life years lost, people aged >29	431,868	17,995	37,533
Deaths in infants (1 to 11 months)	69	3	6
Chronic bronchitis, cases	21,831	788	1,645
Cardiac and respiratory hospital admissions	11,606	484	1,010
Restricted activity days (RADs), working age population	38,084,027	1,676,468	3,496,633
Of which, working days lost	8,378,486	383,911	800,729
Days with respiratory medication use by adults and children	3,890,972	159,272	332,197
Days with lower respiratory symptoms among adults and children	50,524,178	2,238,437	4,668,739
Consultations for asthma and upper respiratory symptoms	459,135	18,261	38,088

Economic assessment, €millions/year	Benefit from 30% with flexibility cut in GHGs in 2020	Benefit from 30% internal cut in GHGs in 2020
Mortality – lower bound (lower estimate of VOLY applied)	940	1,961
Mortality – upper bound (upper estimate of VSL applied)	3,492	7,283
Morbidity	413	861
Total, lower bound mortality valuation	1,353	2,822
Total, upper bound mortality valuation	3,905	8,144