Emission Ceilings in Hungary

Róbert Tóth

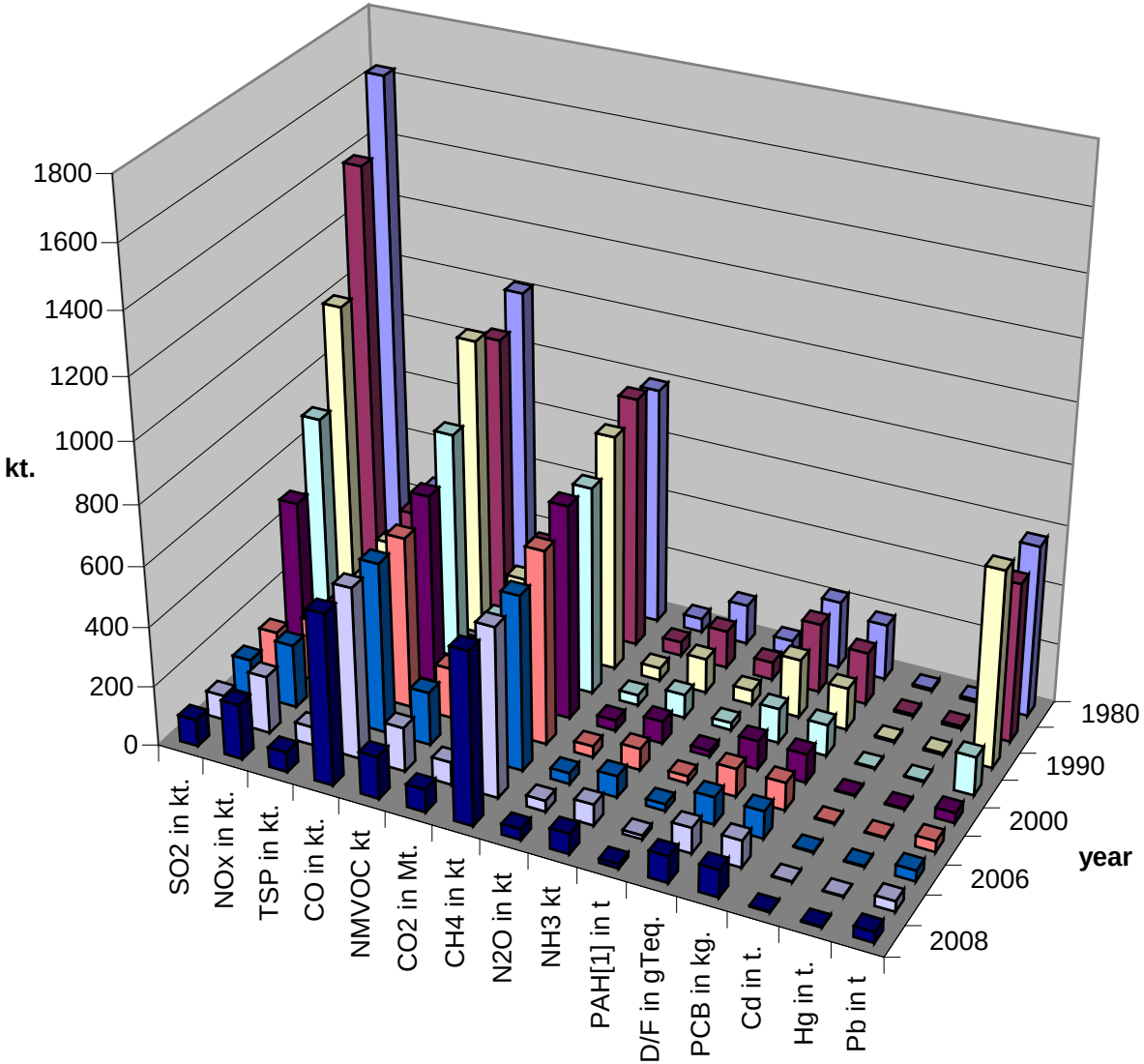
Ministry of Rural Development

Hungary

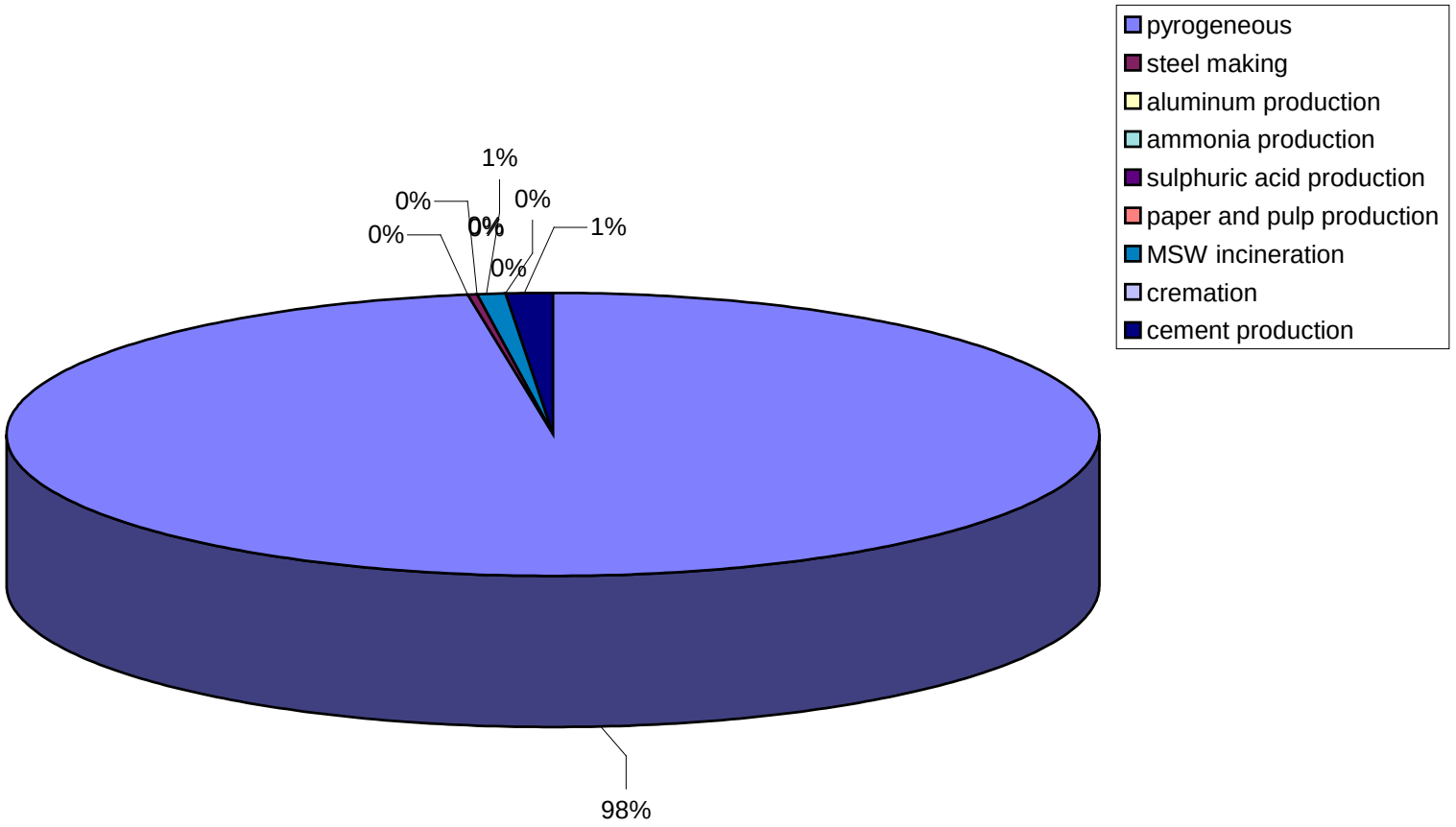
Area: 93 030 km^2

Population: 10 million

Anthropogenic atmospheric emissions in Hungary



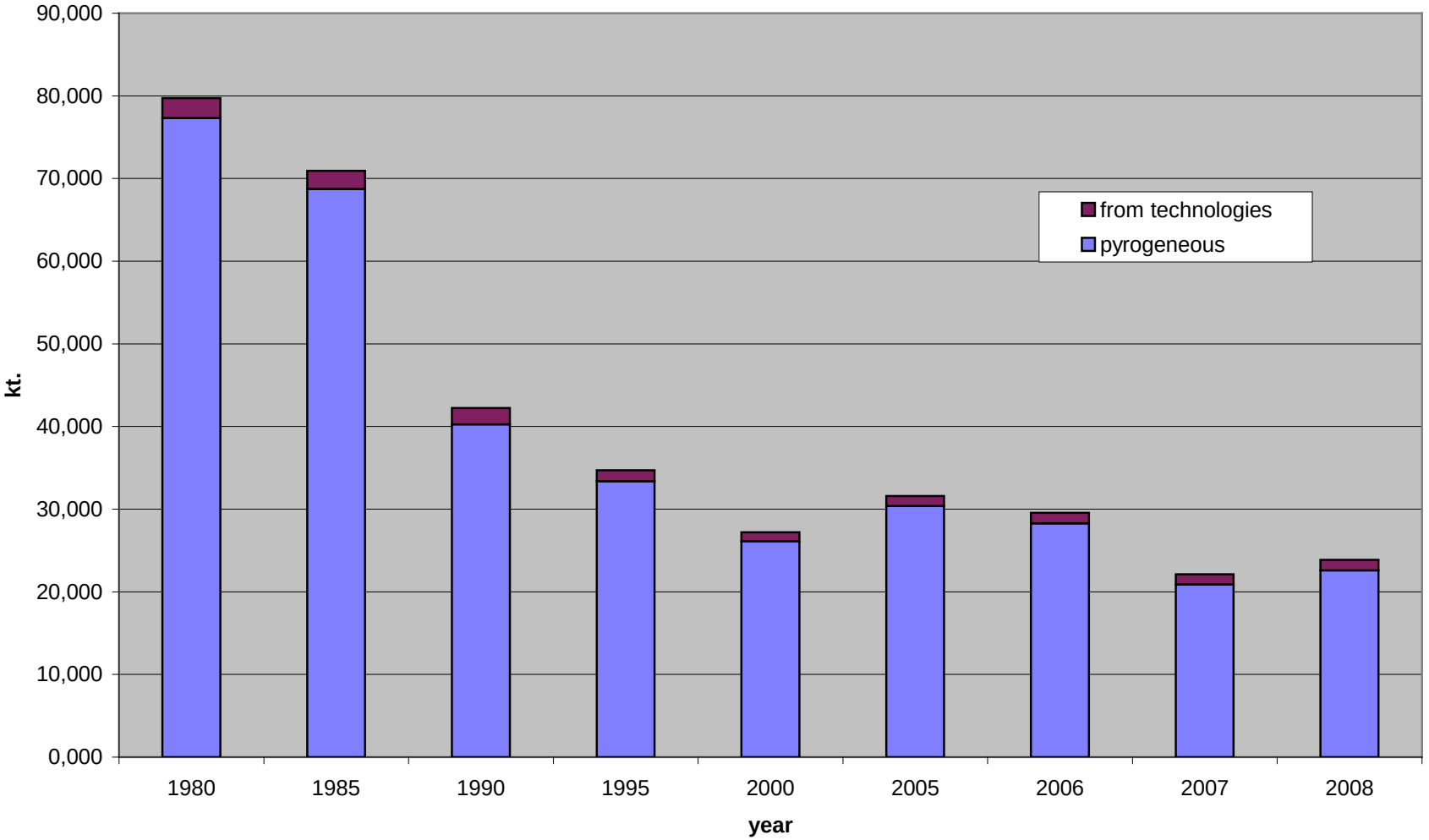
Anthropogenic SO_2 emissions in Hungary in the year 2008.

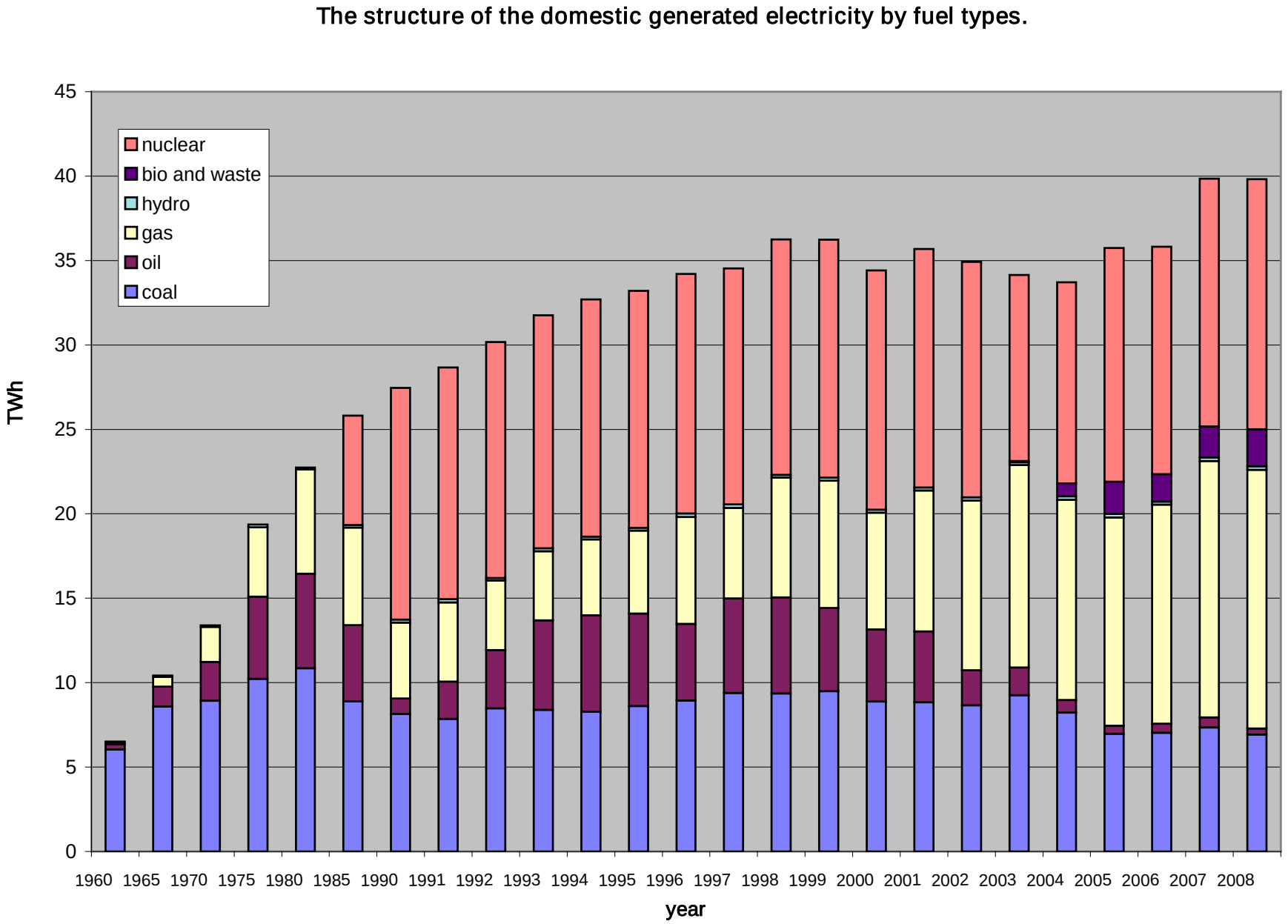


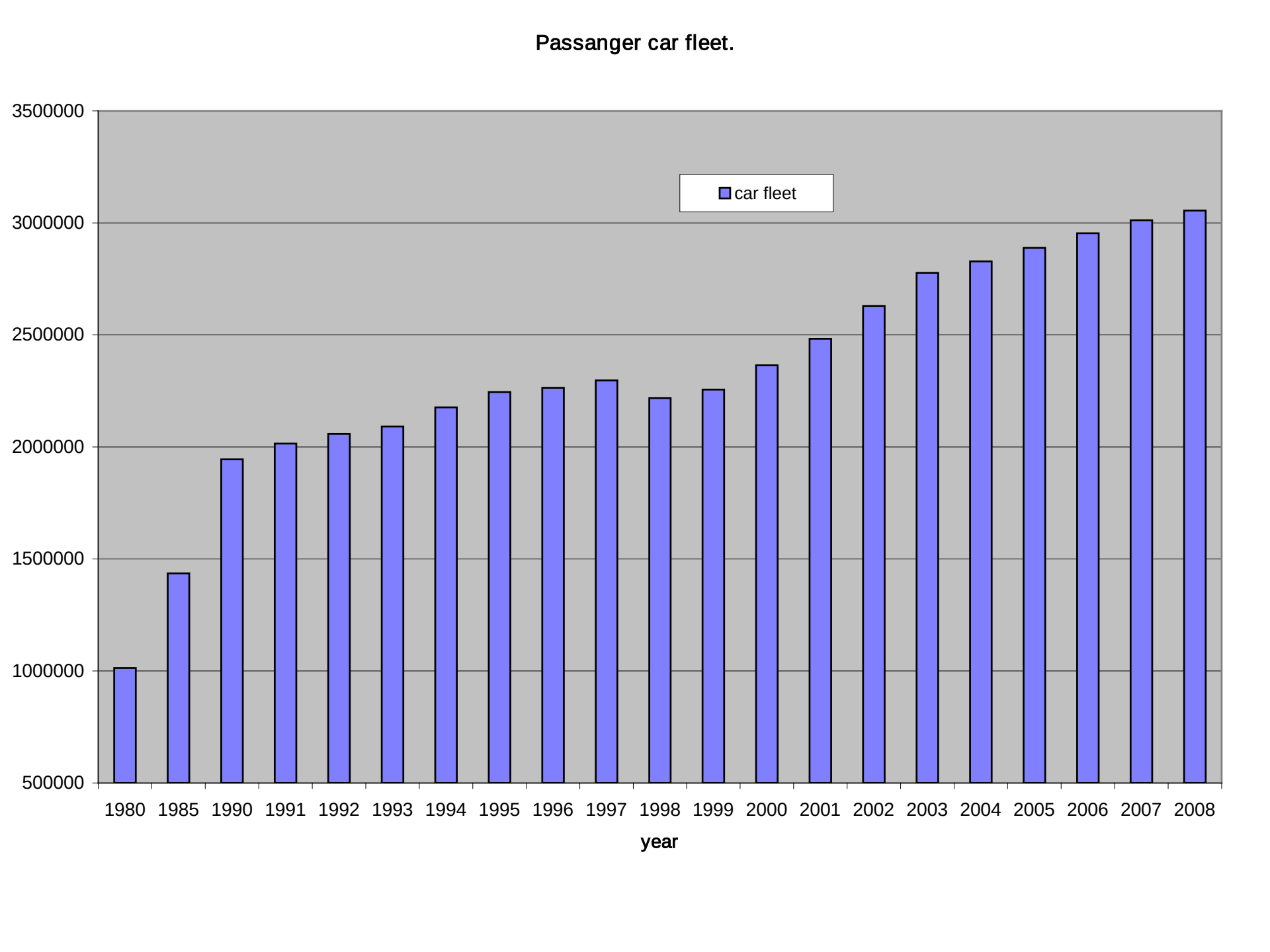
Air pollutant	Emission in the base year 1990 [kt/year]	National emission ceiling in the target year 2010 [kt/year]	Emission in 2009 [kt/year] and prediction for 2010	Rate of target emission reduction by 2010 compared to base year emission [%]
SO_2	1010	500	93 72	50
NO_x	238	198	167 164	17
VOCs	205	137	115 123	33
NH_3	124	90	68 78	27

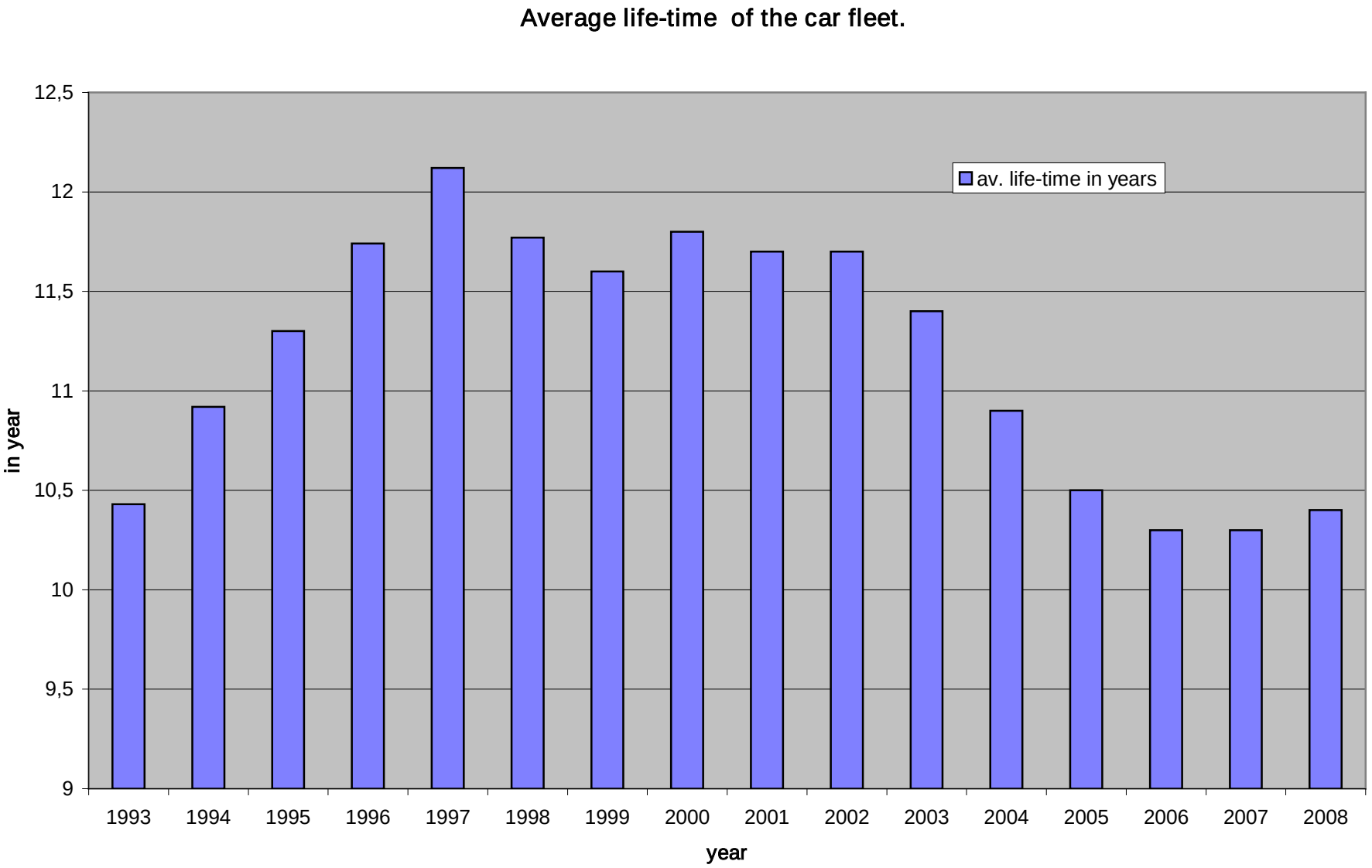
Air pollutant	Emission in the base year 2000 [kt/year]	Nec in the target year 2020 [kt/year] CIAM BL	Nec in the target year 2020 [kt/year] WGSR 48	Nec in the target year 2020 [kt/year]	
				NEP3	real
SO_2	495	64	59	55	64
NO_x	185	86	78	89	140
VOCs	*154*	104	94	96	104
NH_3	75	70	48	90	65
$PM_{2.5}$	*28*	22	19	-	22

Anthropogenic $PM_{2.5}$ emission in Hungary




The structure of the domestic generated electricity by fuel types.
nuclear
bio and waste
hydro
gas
oil
coal
TWh
year
0
5
10
15
20
25
30
35
40
45
1960
1965
1970
1975
1980
1985
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008


Passanger car fleet.
3500000
3000000
2500000
2000000
1500000
1000000
500000
car fleet
1980
1985
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
year


Average life-time of the car fleet.
av. life-time in years
in year
year
12,5
12
11,5
11
10,5
10
9,5
9
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008

Future?

- New energy strategy until 2030
- PM_{10} strategy