

# Global Warming Potential (GWP)

Overview table of Global Warming Potential (GWP) data from the IPCC Assessment Reports (AR) AR5 and AR6 with 20-year and 100-year time horizons (GWP<sub>20</sub>, GWP<sub>100</sub>) for selected greenhouse gases.

Designation	Chemical Formula	GWP <sub>20</sub>		GWP <sub>100</sub>	
		AR5*	AR6**	AR5*	AR6**
Carbon Dioxide	CO <sub>2</sub>	1	1	1	1.000
Methane (fossil)	CH <sub>4</sub>	85	82,5 ± 25,8	30	29,8 ± 11
Methan (non-fossil)	CH <sub>4</sub>	84	79,7 ± 25,8	28	27,0 ± 11
Nitrous Oxide	N <sub>2</sub> O	264	273 ± 118	265	273 ± 130
Sulfur Hexafluoride	SF <sub>6</sub>	17.500	18.300***	23.500	25.184***
Nitrogen Trifluoride	NF <sub>3</sub>	12.800	13.400***	16.100	17.423***

\* IPCC, 2013: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 1535 pp.

\*\* IPCC, 2021: *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*[Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, In press, doi:10.1017/9781009157896.

\*\*\* IPCC, 2022: *Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [P.R. Shukla, J. Skea, R. Slade, A. Al Khouradjaie, R. van Diemen, D. McCollum, M. Pathak, S. Some, P. Vyas, R. Fradera, M. Belkacemi, A. Hasija, G. Lisboa, S. Luz, J. Malley, (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi:10.1017/9781009157926.