COST-RISK CHECK TOOL

Note that this tool, its data and any derivatives thereof are strictly for non-commercial purposes only.

Please cite Rogelj, J., McCollum, D.L., Reisinger, A., Meinshausen, M. & Riahi, K. "Probabilistic cost estimates for climate change mitigation". Nature (2013) doi:10.1038/nature11787 when using this tool or derivatives thereof.

This tool has been developed for Excel 2010. For further information, contact joeri.rogelj@env.ethz.ch

Editable fields are marked with ⟸

GENERAL SETTINGS:

Overarching climate objective

Temperature limit:	2°C ⟸
Objective definition:	not to exceed ⟸

Future energy demand:

	intermediate ⟸

Climate objective-driven costs

Climate objective specification

Probability to achieve climate objective (0 to 100%): 66% ⟸

		Technology uncertainty range		*Delayed mitigation action*		*Alternative case*	
Cost estimates:	*Full portfolio*	*Pessimistic*	*Optimistic*	*until 2020*	*until 2030*	*advanced transport*	⟸
Carbon price [2012 US$/tCO2e]	39	*Infeasible*	25	*Infeasible*	*Infeasible*	28	
Mitigation costs [% of total energy expenditures]	46%	*Infeasible*	35%	*Infeasible*	*Infeasible*	37%	
Mitigation costs [% of GDP]	1.3%	*Infeasible*	1.0%	*Infeasible*	*Infeasible*	1.0%	

OR

Cost-driven probability of achieving climate objective

Mitigation cost specification:

Mitigation cost: % of GDP ⟸

Cost value (0 to 3% increase): 0.5% ⟸ Please note that 0.01 equals 1%

	Reference case	*Technology uncertainty range*		*Delayed mitigation action*		*Alternative case*	
Probability to limit global temperature increase:	*Full portfolio*	*Pessimistic*	*Optimistic*	*until 2020*	*until 2030*	*no CCS*	⟸
to below 2°C during the 21st century	35%	22%	43%	34%	16%	22%	