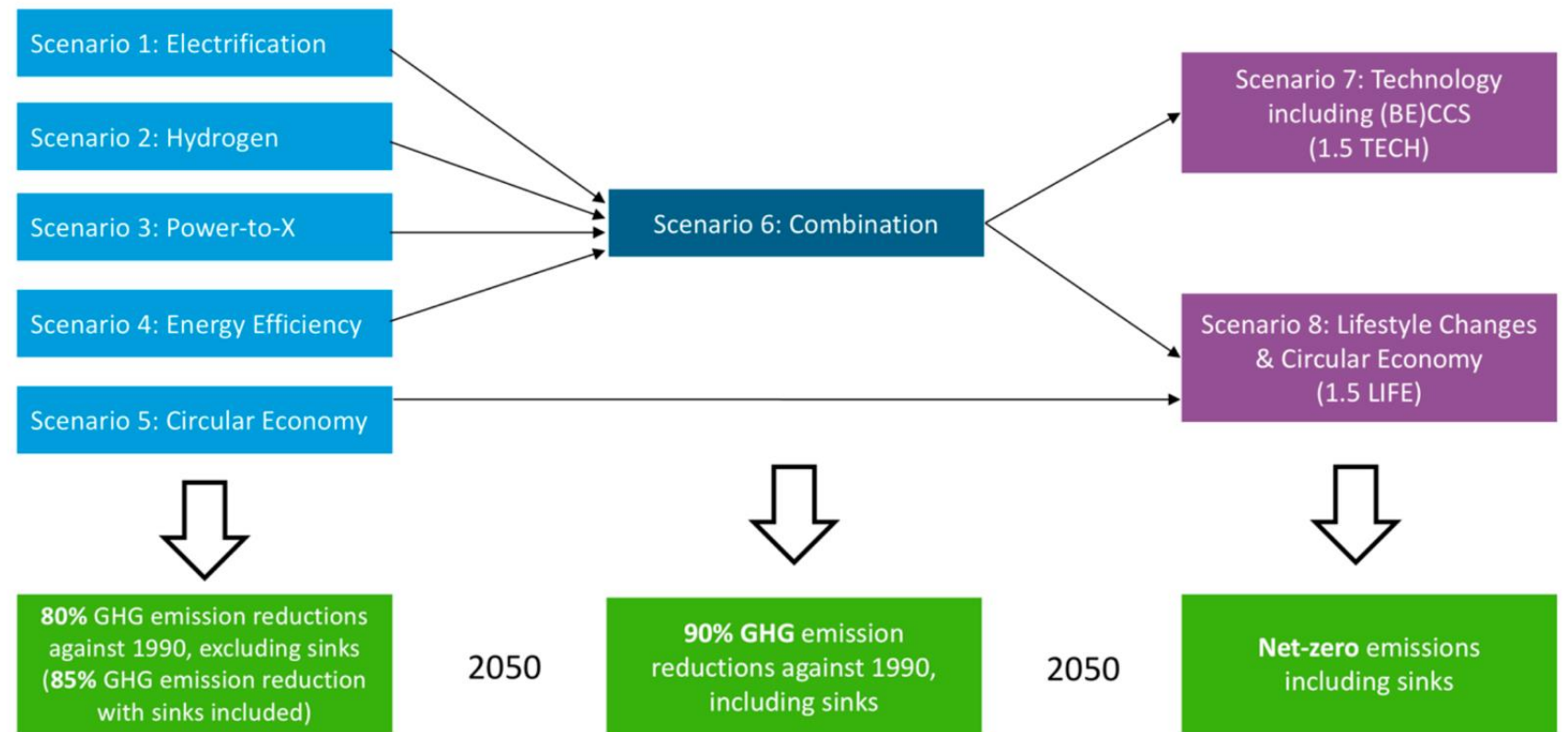


Commission scenarios: overview

Figure 1 Overview over the scenarios in the EC 's 2050 vision

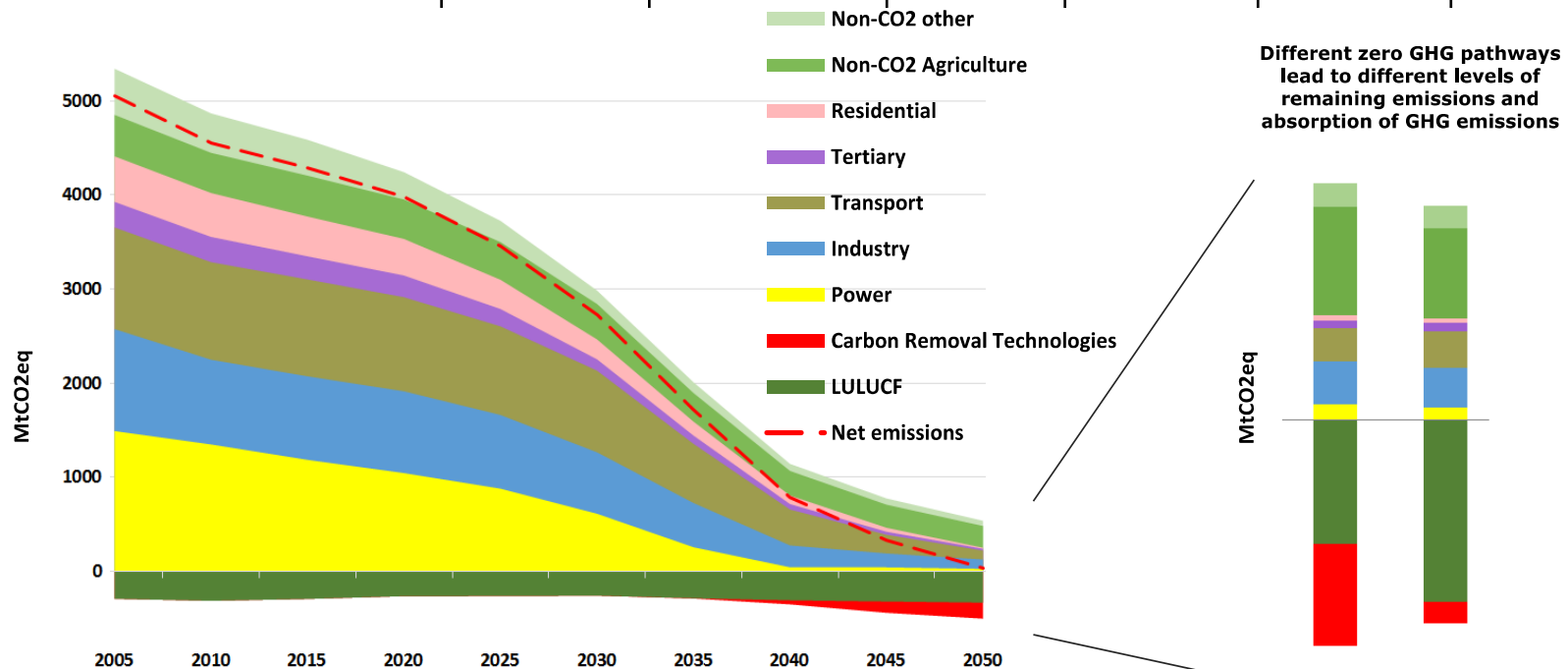


Source: visualization by Ecologic Institute, drawing on the EC In-Depth Analysis document

Source: UBA-Factsheet (Ecologic 2018) zur Vision "A clean planet for all" (EC 2018)

Commission scenarios: total GHG emissions

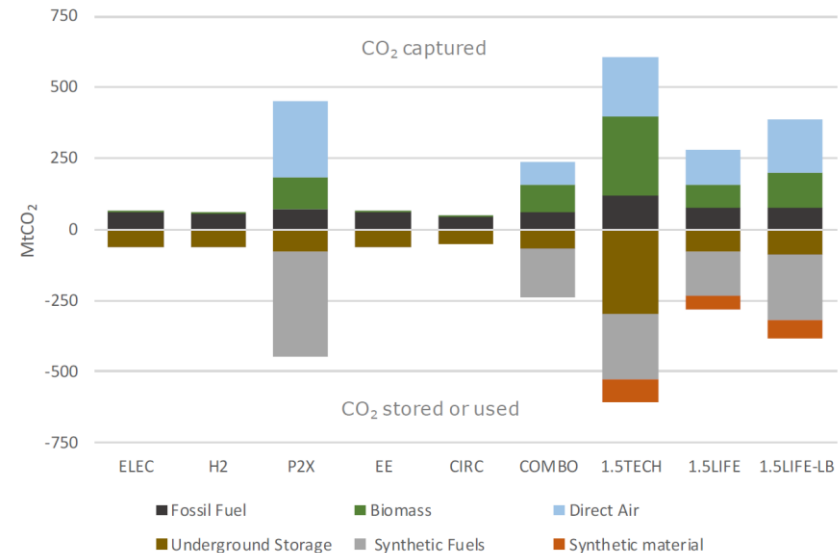
	Baseline 2050	ELEC, H2, P2X, EE	CIRC	COMBO	1.5TECH	1.5LIFE
2050 GHG excl. LULUCF [MtCO ₂]	2214	1004-1054	976	868	343	489
Reduction vs 1990	-62%	- 82-83%	-83%	-85%	-94%	-92%
Reduction vs 1990 incl. LULUCF	-64%	- 85-86%	-88%	-89%	-100%	-100%
Cumulative CO ₂ 2018-2050 [GtCO ₂]	71	59-61	58	58	49	48



Source: In-depth analysis to Vision "A clean planet for all" (EC 2018)

Sectoral pathways: negative emissions

- With regard to **negative emissions**, the only CDR options considered are BECCS and DACCS.
 - other promising options such as **biochar and enhanced weathering not considered**
 - While **1.5TECH assumes ambitious carbon removal, 1.5LIFE assumes much lower carbon capture with minimal BECCS**
 - Carbon capture and negative emissions used interchangeably → **unclear how carbon is being accounted for in the model.**
 - in view of other studies, **underground storage potential relatively low**



CCS	Baseline	ELEC	H2	P2X	EE	CIRC	COMBO	1.5TECH	1.5LIFE	1.5LIFE-LB
Power	5	6	7	16	4	7	7	218	9	20
Industry	0	59	57	61	60	44	60	81	71	71
Total	5	65	63	77	65	52	67	298	80	92
from Biomass*	0	5	6	6	4	5	6	178	6	14

*Note: CCS with biomass is predominantly used in the power sector in the PRIMES scenarios

■ **Cost for NETs given in ranges**
 Bildquelle: In-depth analysis zur Vision "A clean planet for all" (EC 2018)
 but model assumptions **not clear**

Questions negative emissions

- 1) What is the role of LULUCF & Carbon Dioxide Removal (CDR) technologies in your country?
- 2) What are the main reasons for the demand of negative emissions in your country? Which sectors are the remaining emissions located in?
- 3) Political perspective: How are negative emissions (in particular CDR, but also natural sinks) being discussed from a political/ social perspective in your country?