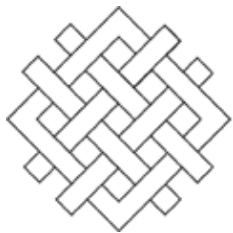


Options for WI GHG Emission Reduction Targets



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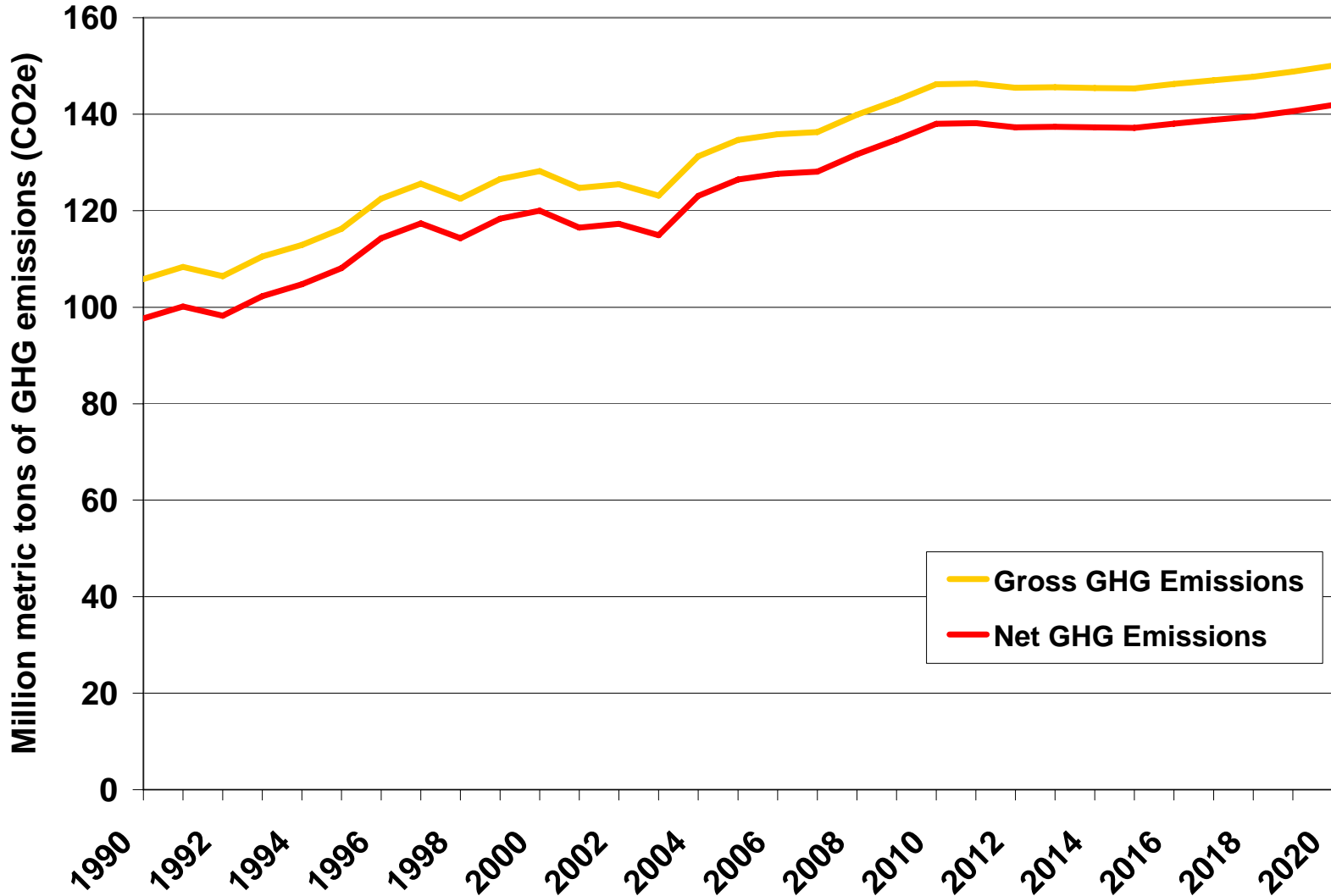
John Larsen, Associate
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Recommended baseline year: 2005

- Better data availability
- Looked at 2004-2006 average, no real difference
- Baseline and targets should consist of *net GHG emissions within Wisconsin*:
 - All in-state direct emissions of 6 Kyoto gases
 - All in-state net sequestration of carbon
 - Does not include out of state emissions associated with imported electricity
- Implementation of data recommendations will be critical to monitoring progress towards targets

TAG recommends targets should apply to *net* GHG emissions within WI

Historic and projected gross and net WI emissions, 1990-2020

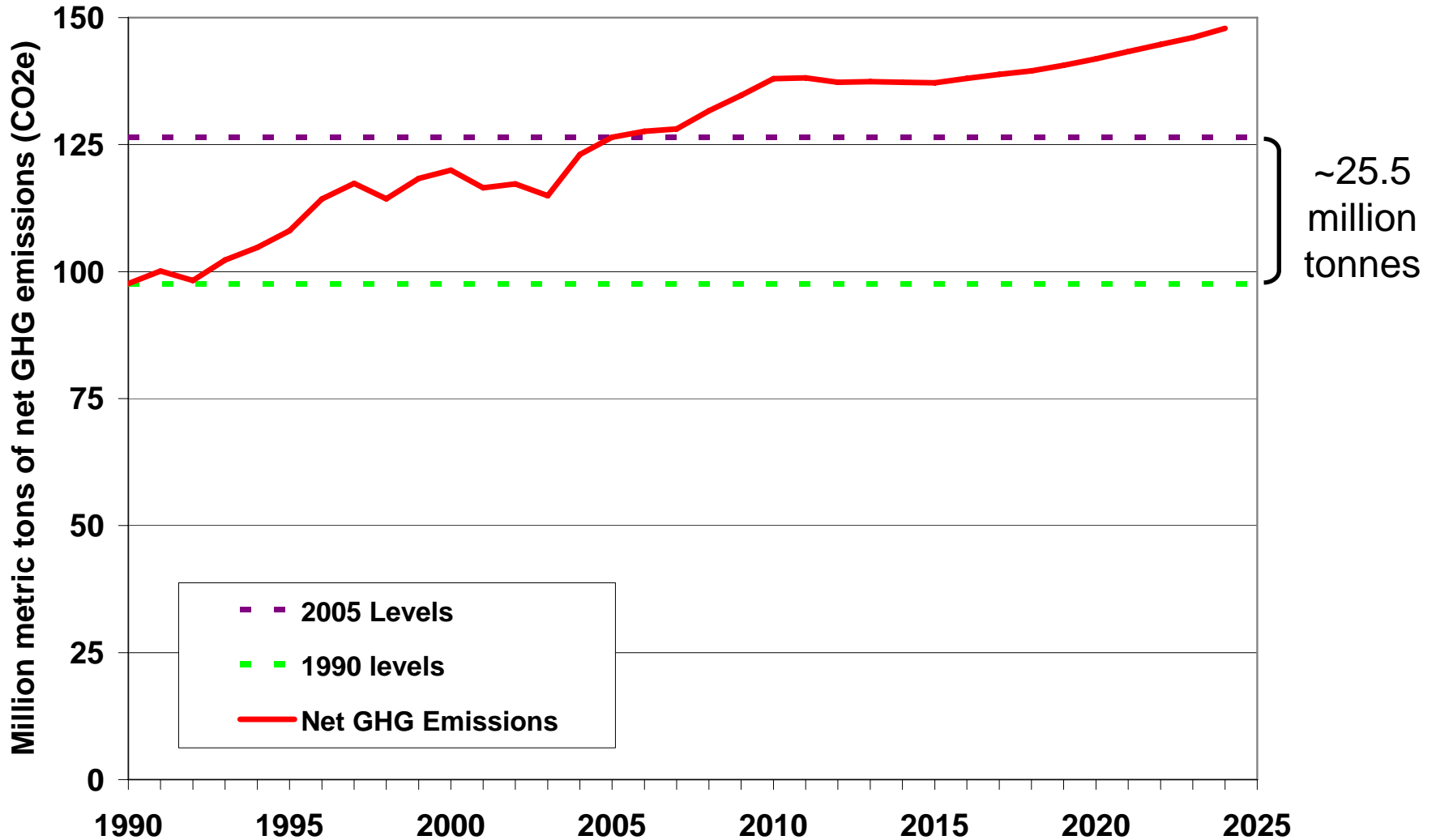


target approach

- Explore projected reductions from different policy scenarios
- Assess when emissions return to 2005 levels
- Consider remaining reductions needed to achieve 20 percent below 2005 levels by 2020 and 2024
- Consider a long-term reduction target for 2050

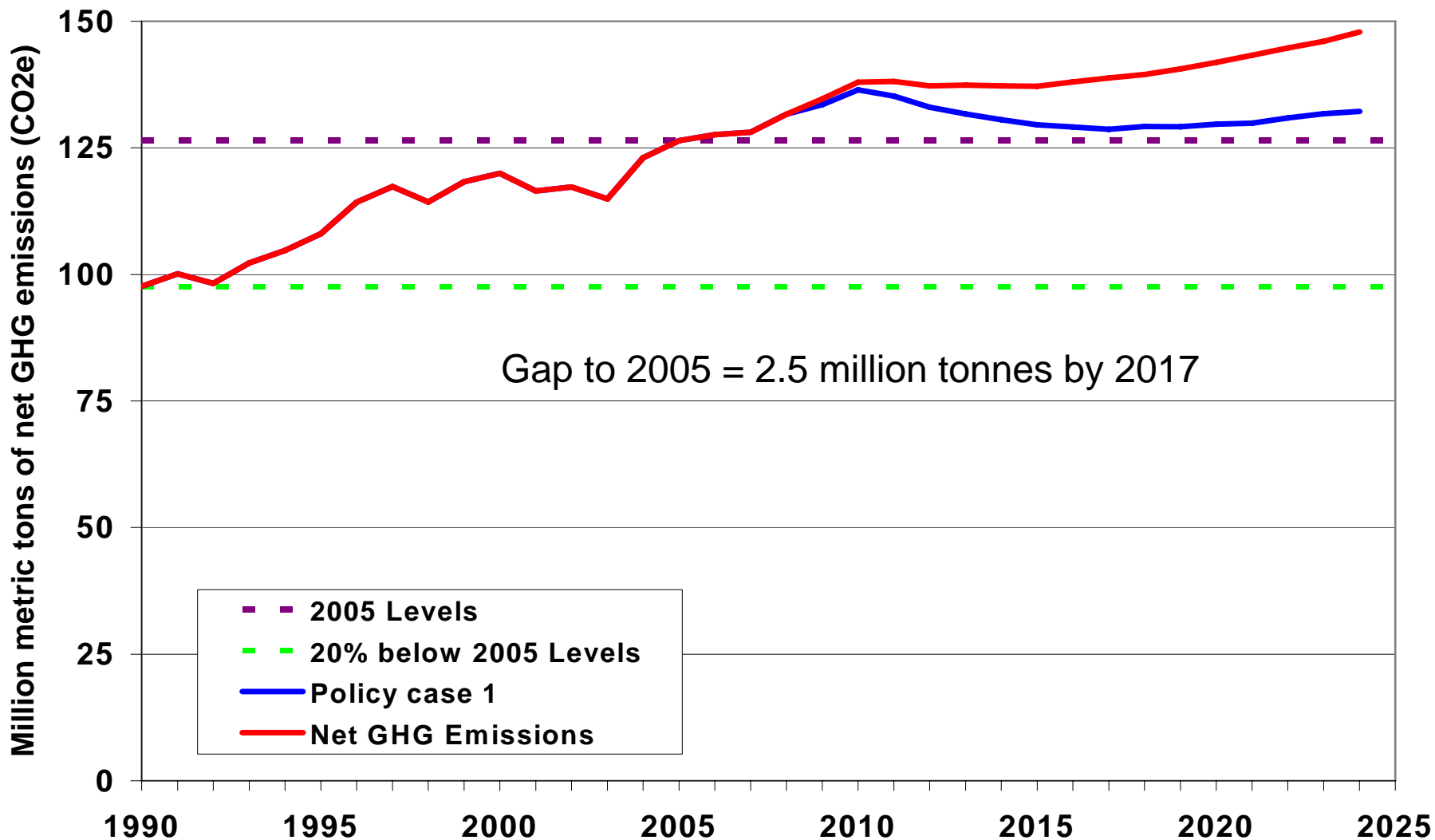
Net 1990 GHG emissions roughly equal to 20% below 2005 levels

Historic and projected net WI GHG emissions, 2005 and 1990 levels, 1990 - 2025



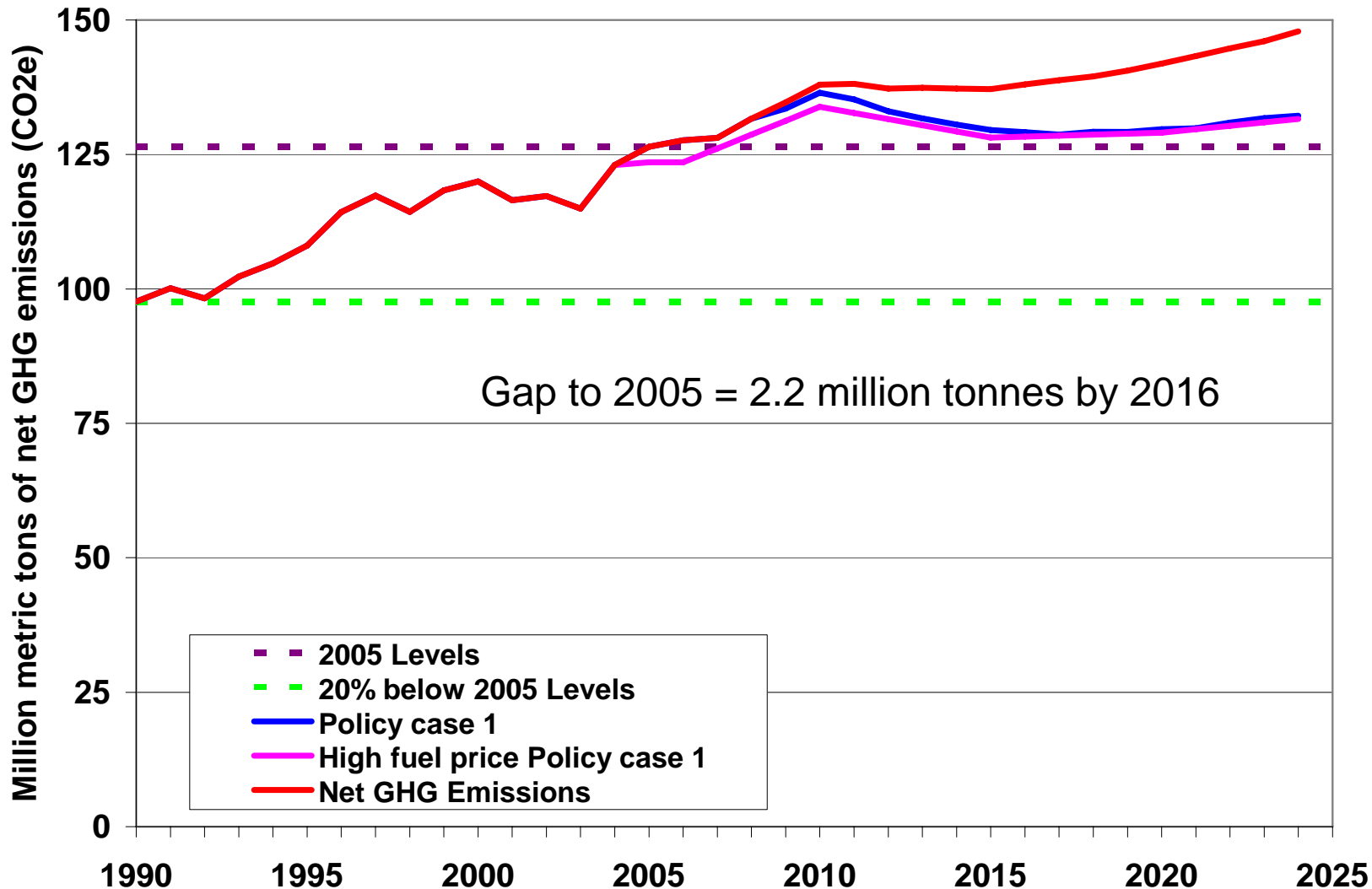
All modeled policies come close to stabilizing emissions at 2005 levels

Net GHG emissions under policy case one 1990-2025



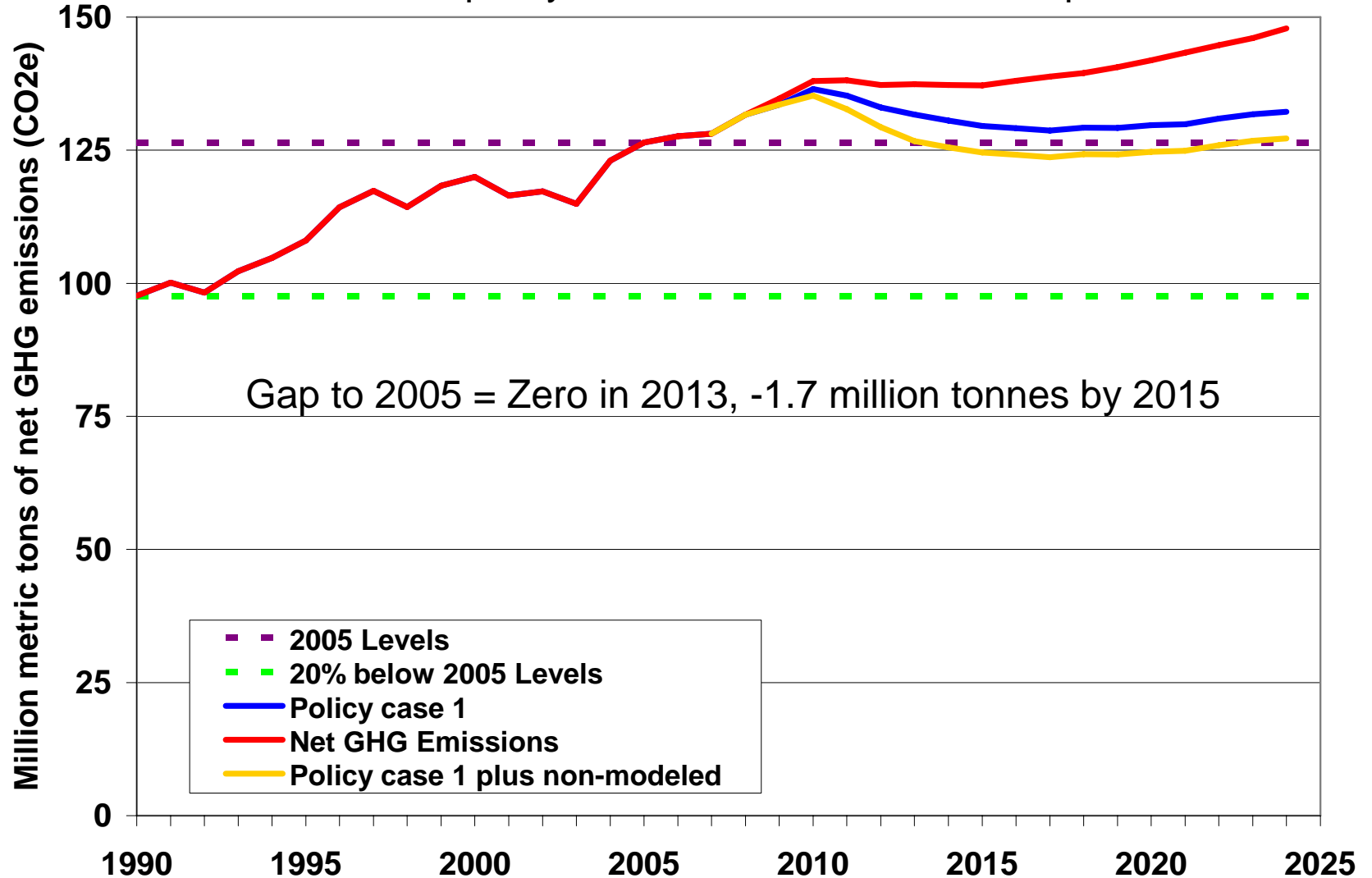
High prices slow emissions growth in early years, nearly reach 2005 levels by 2016

Net GHG emissions under policy case one and under high prices 1990-2025



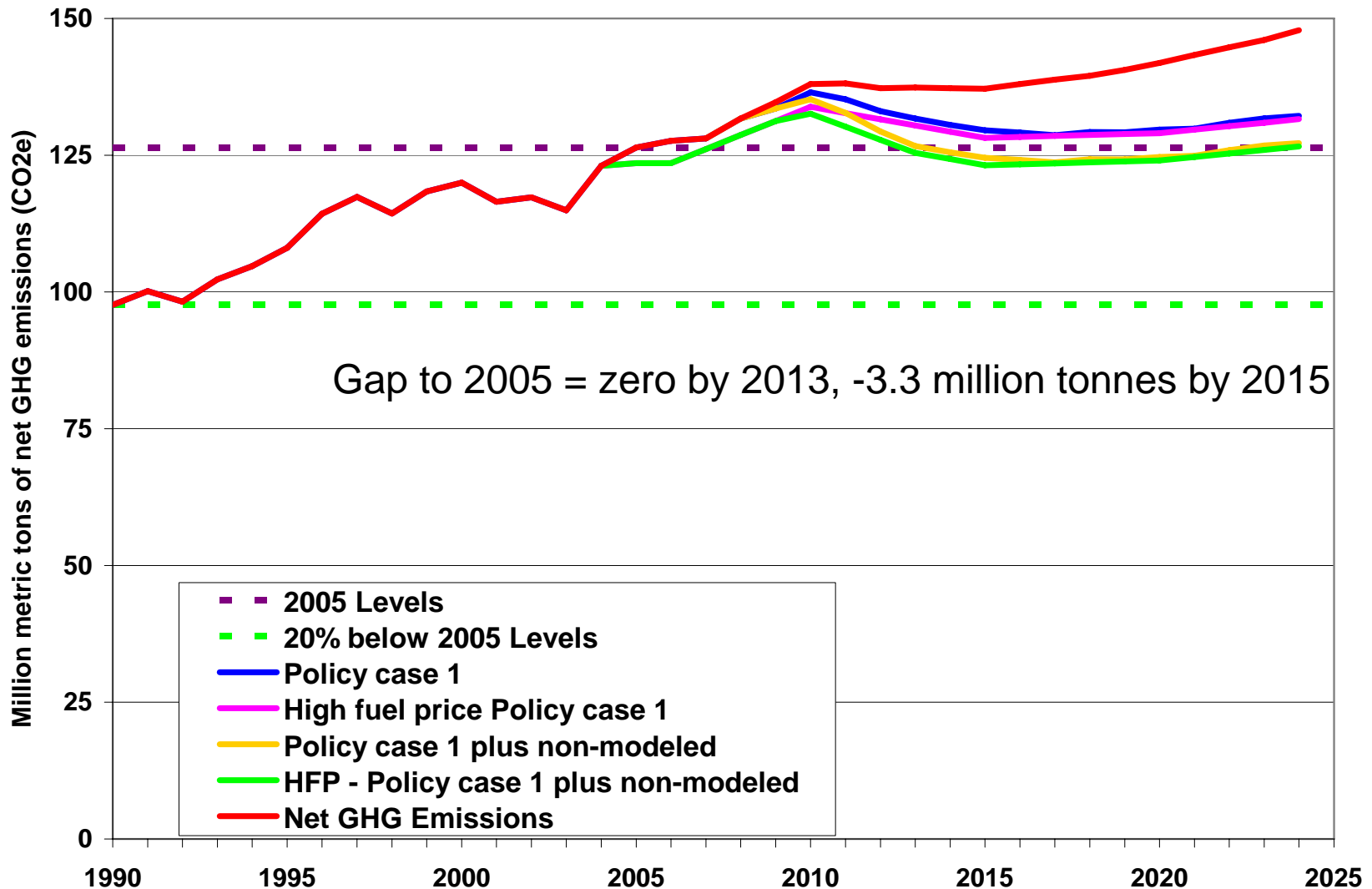
All policy case 1 plus non-modeled policies could stabilize emissions at 2005 levels by 2013

Net GHG emissions under policy case one and non-modeled policies 1990-2025



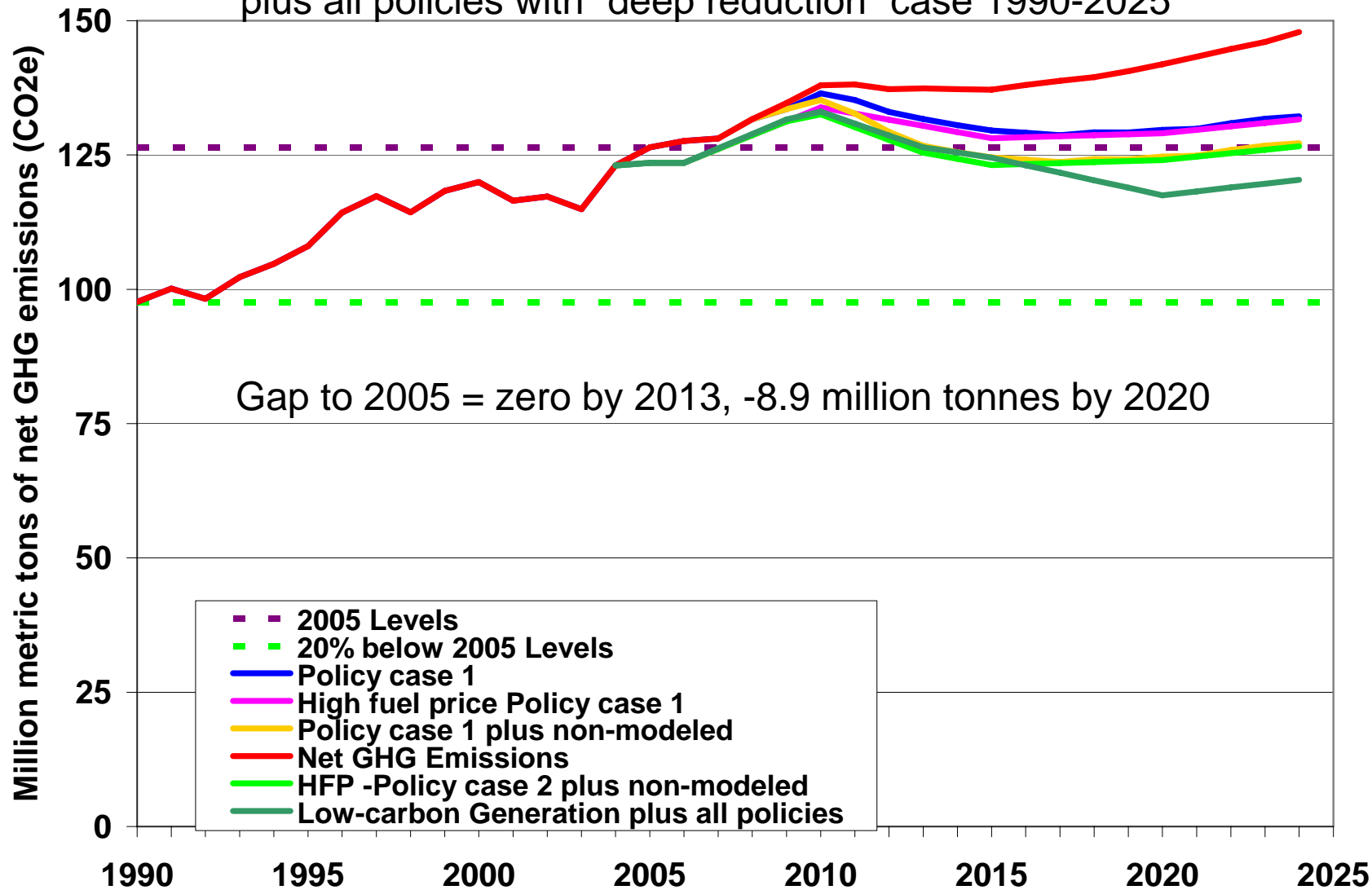
All policy case 1 plus non-modeled policies and high prices could stabilize emissions at 2005 levels by 2012

Net GHG emissions under policy case one and non-modeled policies with high prices 1990-2025



“Low-carbon generation” case with all policies could get to 2005 levels by 2012, 7 percent below by 2020

Net GHG emissions under policy case one, non-modeled policies with high prices plus all policies with “deep reduction” case 1990-2025



What additional reductions are needed to get to 20 percent below 2005 levels? (million tonnes)

	By 2020		By 2024	
Scenario	Total	% below 2005	Total	% below 2005
Policy Case 1	28.5	2.6% <i>above</i>	31.1	4.6% <i>above</i>
High Price PC1	27.9	1.4%	30.4	4.1% <i>above</i>
High Price PC1 plus non-modeled	22.9	1.9%	25.4	0.1% <i>above</i>
Low-carbon generation plus non-modeled	16.4	7.1%	19.2	4.8%

Cap and trade could achieve remaining reductions reach 20% below 2005 levels by 2020 or 2024

Long-Term Reduction Target of
60%, 70%, 80% or XX% by 2050?



Comments & Questions