

Proposed Change to Michigan Industrial Processes I&F

- Received new production data for McLouth Steel Products (shut down in 1998)
 - 1990-1992 data for Basic Oxygen Furnace and Electric Arc Furnace
 - 1995-1996 data for Electric Arc Furnace
- Received new data for Severstal North America
 - 1990-2007 iron processing production data

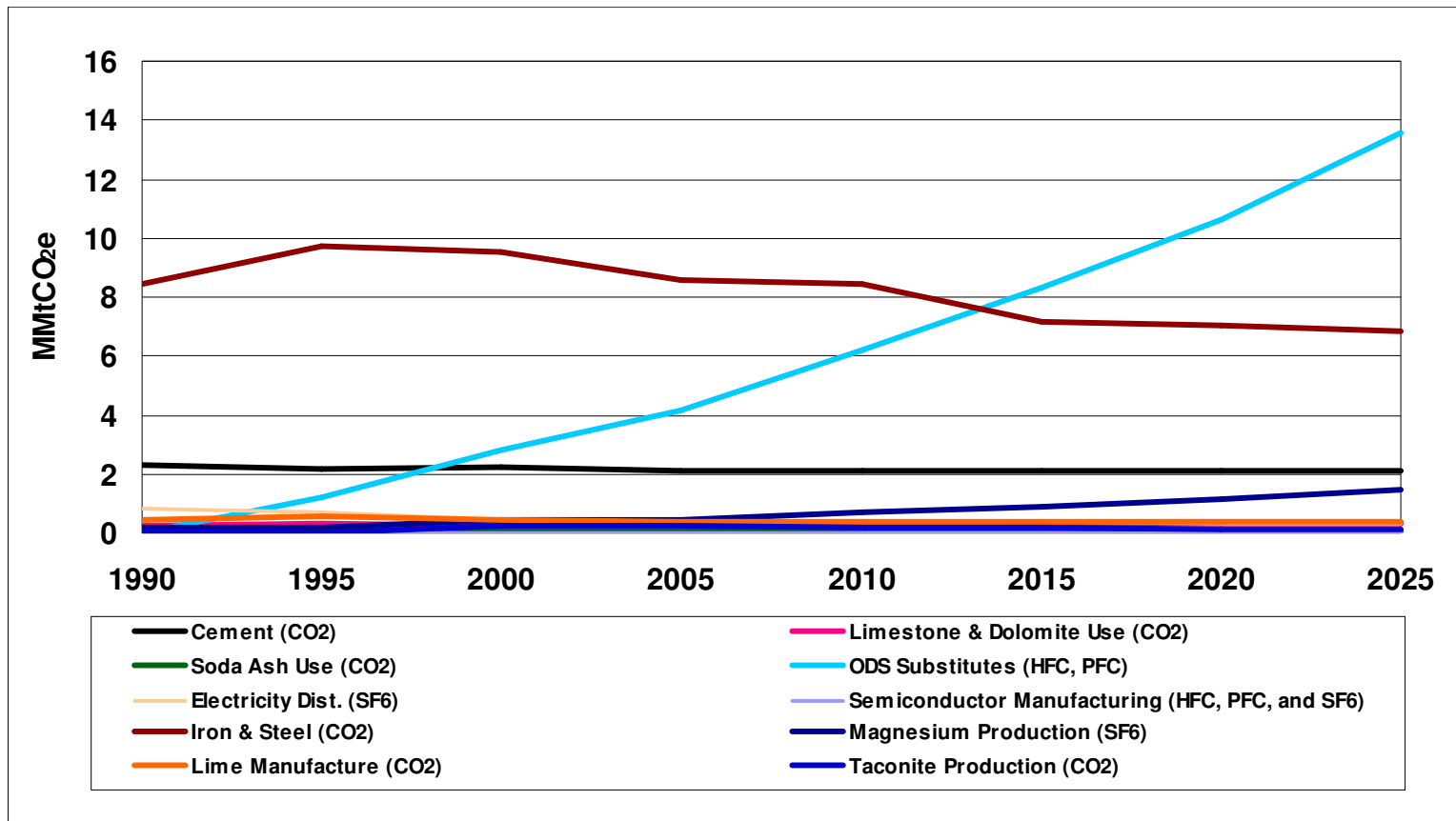
Proposed Change in Michigan Emissions

	1990	2005	2025
Iron and Steel			
Previous (MMtCO ₂ e)	8.46	8.61	6.88
Revised (MMtCO ₂ e)	11.15	10.20	7.95
Percent Change	31.8%	18.5%	15.6%
Industrial Processes Total			
Previous (MMtCO ₂ e)	12.56	16.80	25.30
Revised (MMtCO ₂ e)	15.25	18.39	26.37
Percent Change	21.4%	9.5%	4.2%
Gross MI GHG Emissions			
Previous (MMtCO ₂ e)	216.1	243.3	288.1
Revised (MMtCO ₂ e)	218.8	244.9	289.1
Percent Change	1.2%	0.7%	0.4%

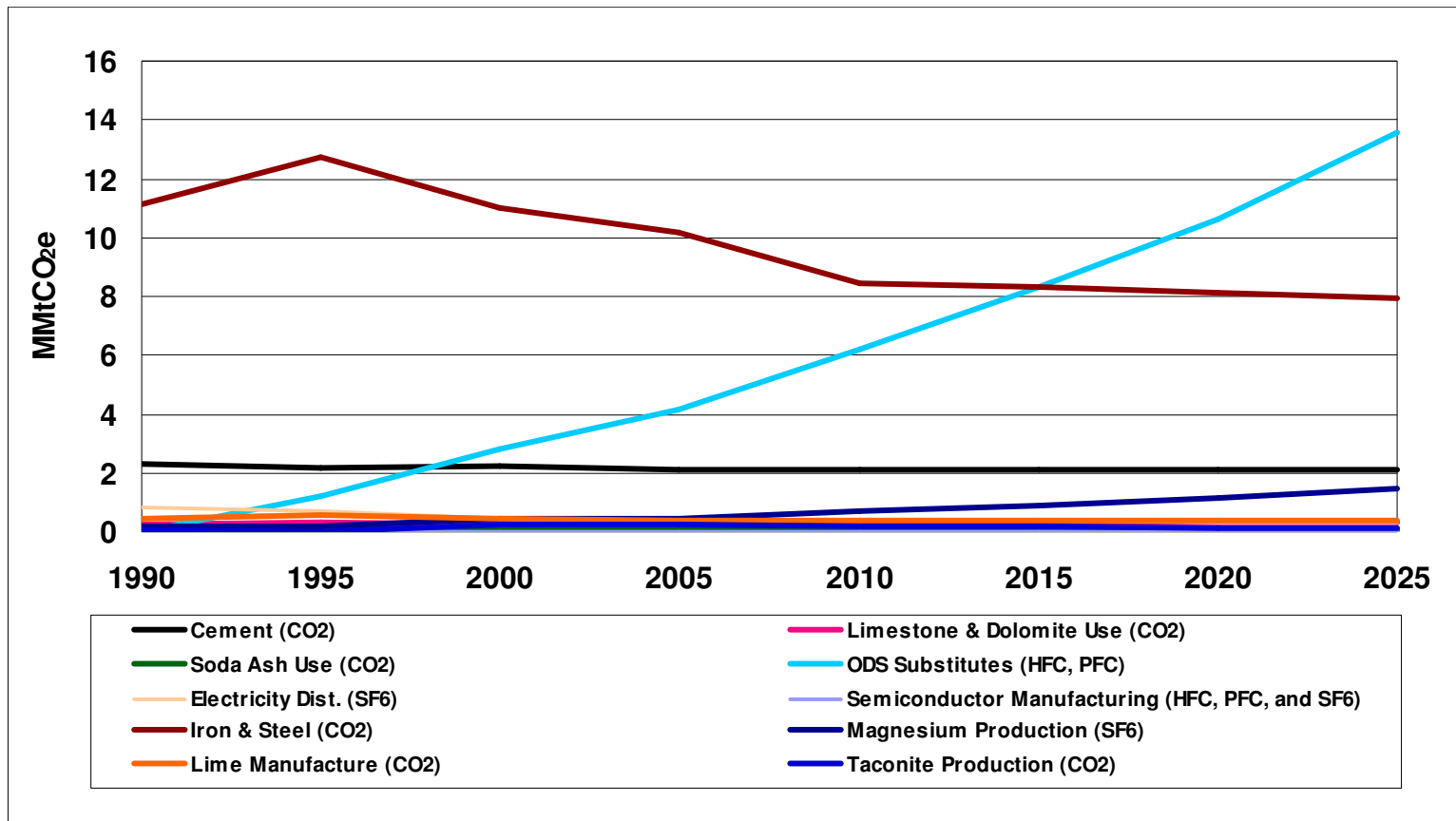
Proposed Revised Michigan Industrial Processes Estimates (MMtCO₂e)

	1990	2005	2025
Cement (CO ₂)	2.27	2.13	2.09
Lime Manufacture (CO ₂)	0.43	0.41	0.41
Limestone & Dolomite Use (CO ₂)	0.24	0.31	0.31
Soda Ash Use (CO ₂)	0.10	0.09	0.07
Iron & Steel (CO ₂)	11.15	10.20	7.95
Taconite Production (CO ₂)	0.04	0.25	0.11
Magnesium Production (SF ₆)	0.18	0.45	1.50
ODS Substitutes (HFC, PFC)	0.01	4.16	13.58
Electricity Dist. (SF ₆)	0.82	0.40	0.33
Semiconductor Mfg (HFC, PFC, and SF ₆)	0.001	0.004	0.003
Total	15.25	18.39	26.37

Previous Michigan Industrial Processes I&F



Proposed Revised Michigan Industrial Processes I&F



Note

- Data on natural gas consumption by steel slab reheat furnace also provided for McLouth Steel Products for 1990-1996 (no activity after 1996)
- Emissions from natural gas consumption should already be included in RCI sector I&F
- Emissions are 2.2 MMtCO₂e in 1990, 1.9 MMtCO₂e in 1995 and 1996 (0 MMtCO₂e thereafter)