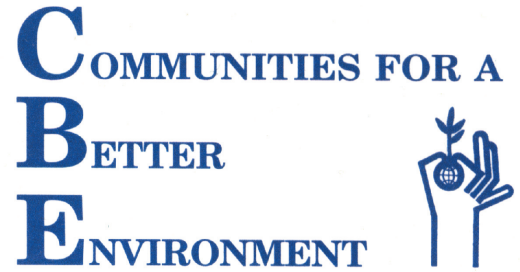
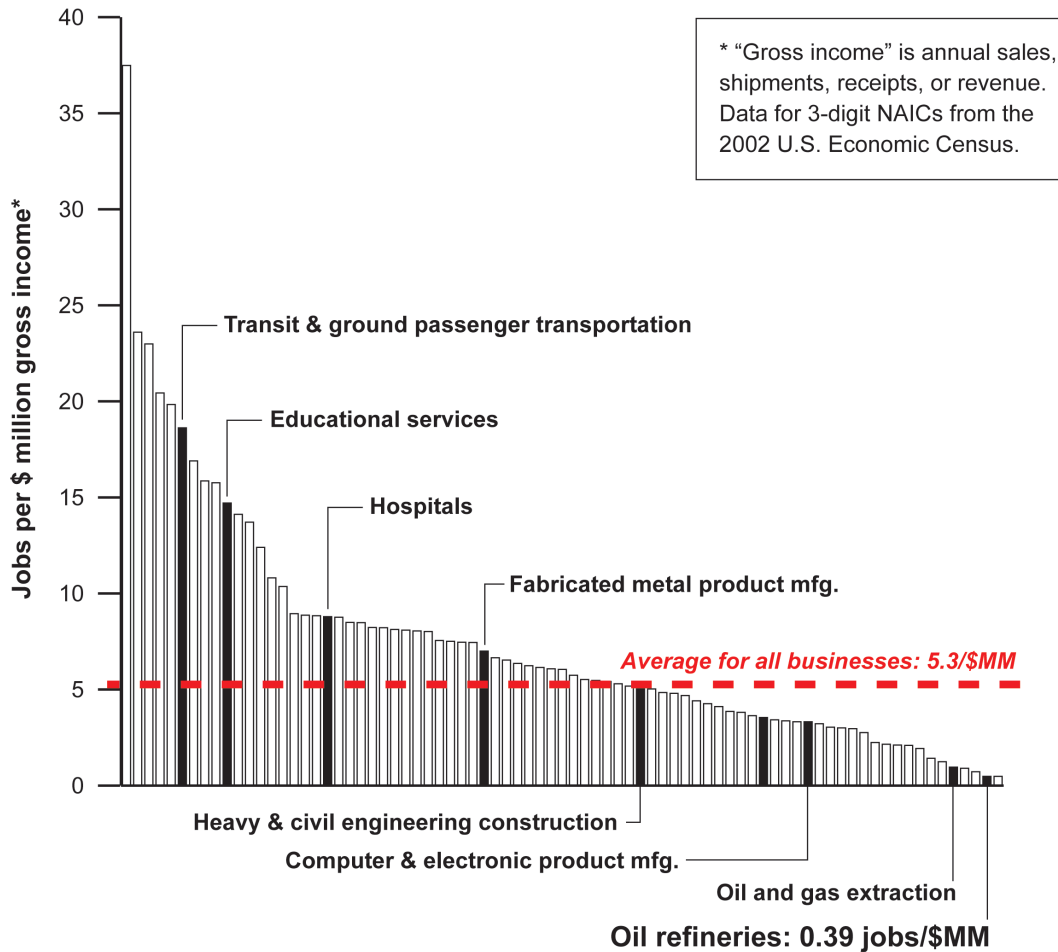


# Big Oil, little jobs

Oil refining ranks next-to-last for jobs per dollar spent in California. That means stopping pollution from refineries will get us more jobs.



California jobs per \$ million income by business type.



This bar chart shows employment and “gross income” (annual sales, shipments, receipts, or revenue) for 79 business types in California’s economy, which are grouped by their North American Industrial Classification. Businesses with more jobs per million dollars of income are shown as taller bars. The dashed horizontal line shows the weighted average jobs/\$MM for all of them. Oil refining ranks next-to-last among all these businesses for jobs/\$MM. California businesses on average are about ten times more jobs-intensive than oil refining. Public transit creates about twenty times as many jobs as oil refining. Heavy construction creates about ten times as many jobs as oil refining. The table below shows that these differences persist over decades.

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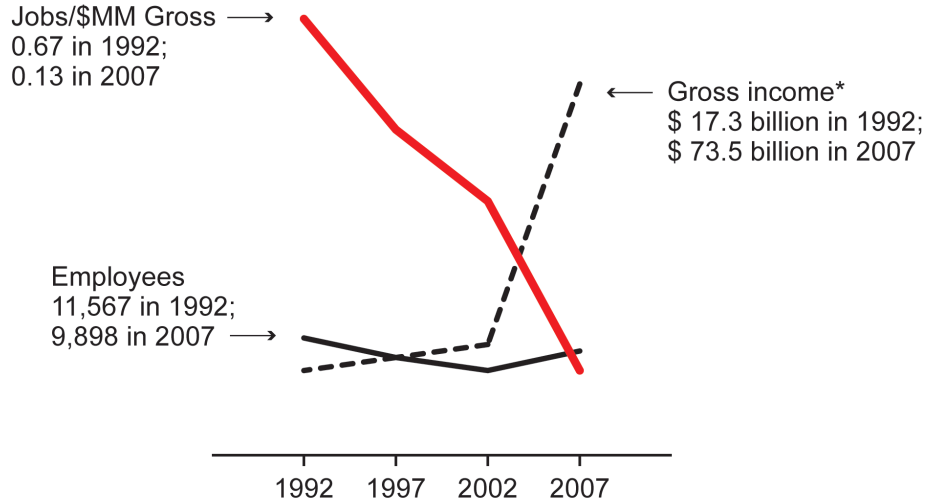
California and U.S. jobs/\$MM gross income in 1992, 1997, 2002 and 2007.

	All sectors		Public transit		Heavy const.		Oil refineries		Refineries rank (all sectors, CA)
	CA	US	CA	US	CA	US	CA	US	
1992	4.16	4.49	21.8	21.0	NA	NA	0.67	0.55	Last
1997	4.65	4.78	21.7	24.6	5.38	6.73	0.50	0.41	Last
2002	5.26	5.28	18.6	21.1	5.03	5.78	0.39	0.32	2nd to last
2007	NA	4.40	NA	16.8	3.10	3.52	0.13	0.11	Last

Employees per \$million sales, shipments, receipts, or revenue from the U.S. Economic Census (www.census.gov; downloaded April 2010). Refinery jobs/\$MM value based on 6-digit NAIC. Ranks, and other values shown, based on 3-digit NAIC. NA: Not available as of April 15, 2010.

Refinery jobs per dollar refinery income declined steadily in California since at least 1992. The line chart below shows why. From 1992 to 2002 it was because refiners cut or outsourced jobs while their income increased. From 2002 to 2007 it was because their hiring did not keep pace with their drastically increasing gross income.

Trends in California refinery employment and economic activity.



Data for petroleum refineries (NAIC 324110) from the U.S. Economic Census  
 \* Annual sales, shipments, receipts, or revenue

The ten-times-bigger jobs factor for heavy construction means that when refiners spend to install modern, pollution-cutting equipment, we get more jobs. The twenty-times-bigger jobs factor for public transit means that when we expand transit, besides spending less at the gas pump, we get more jobs. **Stopping Big Oil's pollution creates jobs.**