Table K2. Industrial sector gross output by region and sector, Low Economic Growth case

billion 2015 dollars

Region and sector	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas								
United States								
Energy-intensive manufacturing	\$2,388	\$2,313	\$2,436	\$2,524	\$2,660	\$2,849	\$3,072	0.9%
Non-energy-intensive manufacturing	\$3,493	\$3,585	\$3,958	\$4,303	\$4,746	\$5,274	\$5,897	1.9%
Nonmanufacturing	\$2,394	\$2,511	\$2,654	\$2,876	\$3,147	\$3,473	\$3,846	1.7%
Total	\$8,275	\$8,410	\$9,049	\$9,703	\$10,553	\$11,596	\$12,815	1.6%
Canada								
Energy-intensive manufacturing	\$256	\$263	\$296	\$321	\$347	\$373	\$398	1.6%
Non-energy-intensive manufacturing	\$332	\$354	\$399	\$431	\$462	\$491	\$520	1.6%
Nonmanufacturing	\$498	\$497	\$531	\$562	\$591	\$617	\$641	0.9%
Total	\$1,086	\$1,114	\$1,226	\$1,315	\$1,400	\$1,481	\$1,559	1.3%
Mexico			. ,	. ,	. ,	, , ,		
Energy-intensive manufacturing	\$535	\$542	\$576	\$593	\$611	\$636	\$671	0.8%
Non-energy-intensive manufacturing	\$983	\$1,028	\$1,068	\$1,105	\$1,157	\$1,225	\$1,315	1.0%
Nonmanufacturing	\$466	\$481	\$504	\$518	\$525	\$530	\$532	0.5%
Total	\$1,983	\$2,052	\$2,148	\$2,216	\$2,292	\$2,390	\$2,518	0.9%
Brazil	<b>4</b> 2,555	7-,00-	¥=,= 10	¥=,==0	¥=,===	<b>4</b> 2,000	¥=,0=0	
Energy-intensive manufacturing	\$868	\$893	\$932	\$940	\$941	\$942	\$935	0.3%
Non-energy-intensive manufacturing	\$612	\$649	\$703	\$738	\$763	\$785	\$803	1.0%
Nonmanufacturing	\$710	\$738	\$774	\$796	\$814	\$837	\$857	0.7%
Total	\$2,191	\$2,280	\$2,409	\$2,474	\$2,517	\$2,564	\$2,595	0.6%
Other Americas	72,131	72,200	72,403	72,414	72,317	72,304	72,333	0.070
Energy-intensive manufacturing	\$899	\$937	\$1,015	\$1,085	\$1,154	\$1,228	\$1,304	1.3%
Non-energy-intensive manufacturing	\$937	\$913	\$995	\$1,067	\$1,134	\$1,199	\$1,266	1.1%
			\$1,329	\$1,422		\$1,604	\$1,200	1.3%
Nonmanufacturing	\$1,197	\$1,237			\$1,513			1.2%
Total	\$3,032	\$3,088	\$3,338	\$3,574	\$3,802	\$4,030	\$4,265	1.2/0
Europe and Eurasia								
Western Europe	Ć4 002	¢4.000	Ć4 000	Ć4 01 C	Ć4 000	ĆE 0E1	ĆF 100	0.10/
Energy-intensive manufacturing	\$4,982	\$4,968	\$4,888	\$4,916	\$4,980	\$5,051	\$5,109	0.1%
Non-energy-intensive manufacturing	\$8,439	\$8,787	\$9,051	\$9,409	\$9,788	\$10,175	\$10,520	0.8%
Nonmanufacturing	\$4,377	\$4,467	\$4,591	\$4,670	\$4,747	\$4,786	\$4,802	0.3%
Total	\$17,798	\$18,221	\$18,531	\$18,995	\$19,515	\$20,011	\$20,431	0.5%
Russia								9.504
Energy-intensive manufacturing	\$895	\$968	\$975	\$992	\$1,011	\$1,035	\$1,052	0.6%
Non-energy-intensive manufacturing	\$544	\$592	\$582	\$585	\$595	\$608	\$616	0.4%
Nonmanufacturing	\$1,282	\$1,234	\$1,245	\$1,219	\$1,186	\$1,159	\$1,130	-0.5%
Total	\$2,721	\$2,794	\$2,802	\$2,796	\$2,793	\$2,802	\$2,797	0.1%
Eastern Europe and Eurasia								
Energy-intensive manufacturing	\$230	\$260	\$290	\$328	\$373	\$426	\$483	2.7%
Non-energy-intensive manufacturing	\$96	\$117	\$132	\$144	\$159	\$178	\$198	2.6%
Nonmanufacturing	\$750	\$810	\$965	\$1,062	\$1,163	\$1,242	\$1,308	2.0%
Total	\$1,076	\$1,187	\$1,387	\$1,533	\$1,695	\$1,846	\$1,989	2.2%
Asia Pacific								
Japan								
Energy-intensive manufacturing	\$941	\$954	\$903	\$850	\$810	\$772	\$738	-0.9%
Non-energy-intensive manufacturing	\$2,737	\$2,979	\$3,059	\$3,042	\$2,994	\$2,937	\$2,889	0.2%
Nonmanufacturing	\$670	\$675	\$676	\$656	\$638	\$618	\$600	-0.4%
Total	\$4,349	\$4,608	\$4,639	\$4,548	\$4,442	\$4,327	\$4,228	-0.1%
South Korea								
Energy-intensive manufacturing	\$1,067	\$1,110	\$1,109	\$1,086	\$1,042	\$998	\$948	-0.4%
Non-energy-intensive manufacturing	\$1,692	\$1,777	\$1,967	\$2,046	\$2,078	\$2,104	\$2,125	0.8%

Nonmanufacturing	\$362	\$372	\$370	\$370	\$368	\$364	\$358	0.0%
Total	\$3,122	\$3,259	\$3,446	\$3,502	\$3,488	\$3,466	\$3,430	0.3%
Australia and New Zealand								
Energy-intensive manufacturing	\$171	\$185	\$194	\$200	\$206	\$211	\$215	0.8%
Non-energy-intensive manufacturing	\$131	\$135	\$140	\$144	\$148	\$150	\$151	0.5%
Nonmanufacturing	\$590	\$622	\$713	\$776	\$831	\$881	\$928	1.6%
Total	\$892	\$942	\$1,047	\$1,121	\$1,185	\$1,242	\$1,294	1.3%
China								
Energy-intensive manufacturing	\$10,799	\$11,969	\$12,700	\$12,966	\$12,832	\$12,590	\$12,100	0.4%
Non-energy-intensive manufacturing	\$25,771	\$29,218	\$32,819	\$35,291	\$36,192	\$36,415	\$35,450	1.1%
Nonmanufacturing	\$12,744	\$13,702	\$15,070	\$15,706	\$15,879	\$16,007	\$15,743	0.8%
Total	\$49,313	\$54,888	\$60,589	\$63,963	\$64,903	\$65,012	\$63,293	0.9%
India								
Energy-intensive manufacturing	\$3,724	\$4,238	\$5,652	\$7,253	\$8,831	\$10,597	\$11,987	4.3%
Non-energy-intensive manufacturing	\$3,007	\$3,334	\$4,418	\$5,590	\$6,742	\$7,870	\$8,902	4.0%
Nonmanufacturing	\$4,474	\$4,959	\$5,953	\$6,828	\$7,520	\$8,129	\$8,573	2.4%
Total	\$11,205	\$12,531	\$16,023	\$19,672	\$23,093	\$26,596	\$29,462	3.5%
Other Asia Pacific								
Energy-intensive manufacturing	\$4,475	\$4,981	\$5,834	\$6,752	\$7,736	\$8,747	\$9,722	2.8%
Non-energy-intensive manufacturing	\$8,764	\$9,488	\$11,084	\$12,469	\$13,751	\$14,871	\$15,820	2.1%
Nonmanufacturing	\$5,207	\$5,603	\$6,490	\$7,209	\$7,930	\$8,562	\$9,070	2.0%
Total	\$18,446	\$20,072	\$23,408	\$26,430	\$29,418	\$32,180	\$34,613	2.3%
Africa and Middle East								
Africa								
Energy-intensive manufacturing	\$1,364	\$1,491	\$1,686	\$1,892	\$2,104	\$2,327	\$2,560	2.3%
Non-energy-intensive manufacturing	\$885	\$965	\$1,079	\$1,196	\$1,318	\$1,439	\$1,555	2.0%
Nonmanufacturing	\$3,003	\$3,238	\$3,517	\$3,790	\$4,047	\$4,289	\$4,511	1.5%
Total	\$5,252	\$5,694	\$6,282	\$6,878	\$7,468	\$8,055	\$8,626	1.8%
Middle East								
Energy-intensive manufacturing	\$1,563	\$1,621	\$1,745	\$1,891	\$2,003	\$2,100	\$2,179	1.2%
Non-energy-intensive manufacturing	\$837	\$884	\$962	\$1,064	\$1,159	\$1,238	\$1,312	1.6%
Nonmanufacturing	\$2,584	\$2,748	\$2,900	\$3,008	\$3,120	\$3,232	\$3,330	0.9%
Total	\$4,983	\$5,253	\$5,607	\$5,963	\$6,281	\$6,570	\$6,820	1.1%
World								
Energy-intensive manufacturing	\$35,158	\$37,693	\$41,232	\$44,589	\$47,641	\$50,882	\$53,471	1.5%
Non-energy-intensive manufacturing	\$59,259	\$64,804	\$72,420	\$78,625	\$83,187	\$86,958	\$89,340	1.5%
Nonmanufacturing	\$41,308	\$43,894	\$48,281	\$51,467	\$54,018	\$56,330	\$57,924	1.2%
Total	\$135,726	\$146,391	\$161,933	\$174,681	\$184,846	\$194,170	\$200,735	1.4%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lm\_230821.151939 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo; Oxford Economics, Global Industry Model (March 2023), www.oxfordeconomics.com (subscription site)

Note: Totals may not equal sum of components due to independent rounding. Gross output is sales or revenue, including final and intermediate goods and services, measured in purchasing power parity. Nonmanufacturing includes agriculture, construction, and mining; energy-intensive manufacturing includes food, pulp and paper, basic chemicals, refining, iron and steel, nonferrous metals, and nonmetallic minerals; non-energy-intensive manufacturing includes all other manufacturing industries.