Table K2. Industrial sector gross output by region and sector, High 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	\$2,533	\$2,775	\$2,970	\$3,243	\$3,574	\$3,927	1.8%
Non-energy-intensive manufacturing	\$3,493	\$3,980	\$4,556	\$5,137	\$5,897	\$6,768	\$7,749	2.9%
Nonmanufacturing	\$2,394	\$2,746	\$2,984	\$3,282	\$3,697	\$4,184	\$4,746	2.5%
Total	\$8,275	\$9,259	\$10,315	\$11,390	\$12,837	\$14,526	\$16,423	2.5%
Canada	,	, , , , ,	,.	, ,	. ,	, ,-	, -, -	
Energy-intensive manufacturing	\$256	\$269	\$316	\$359	\$406	\$458	\$510	2.5%
Non-energy-intensive manufacturing	\$332	\$363	\$427	\$485	\$546	\$611	\$678	2.6%
Nonmanufacturing	\$498	\$506	\$557	\$615	\$674	\$734	\$797	1.7%
Total	\$1,086	\$1,138	\$1,299	\$1,459	\$1,626	\$1,802	\$1,985	2.2%
Mexico	¥=,555	7-,	7-,	7-7:00	7-/	7-/	7-,	
Energy-intensive manufacturing	\$535	\$570	\$662	\$751	\$849	\$968	\$1,115	2.7%
Non-energy-intensive manufacturing	\$983	\$1,068	\$1,222	\$1,404	\$1,625	\$1,901	\$2,251	3.0%
Nonmanufacturing	\$466	\$495	\$563	\$631	\$693	\$758	\$826	2.1%
Total	\$1,983	\$2,133	\$2,447	\$2,785	\$3,167	\$3,627	\$4,192	2.7%
Brazil	71,503	Y2,133	Y=,777	y=,103	43,10 7	Y3,021	Y-1,132	2.770
Energy-intensive manufacturing	\$868	\$925	\$1,061	\$1,168	\$1,250	\$1,325	\$1,388	1.7%
Non-energy-intensive manufacturing	\$612	\$672	\$804	\$927	\$1,035	\$1,138	\$1,238	2.5%
Nonmanufacturing	\$710	\$756	\$850	\$940	\$1,024	\$1,111	\$1,199	1.9%
Total	\$2,191	\$2,353	\$2,715	\$3,035	\$3,308	\$3,575	\$3,826	2.0%
Other Americas	72,131	72,333	72,713	75,055	75,500	75,575	73,020	
Energy-intensive manufacturing	\$899	\$976	\$1,156	\$1,348	\$1,561	\$1,796	\$2,054	3.0%
Non-energy-intensive manufacturing	\$937	\$954	\$1,130	\$1,346	\$1,570	\$1,730	\$2,076	2.9%
Nonmanufacturing	\$1,197	\$1,268	\$1,437	\$1,627	\$1,832	\$2,051	\$2,282	2.3%
Total	\$3,033	\$3,198	\$3,735	\$4,322	\$4,964	\$5,657	\$6,412	2.7%
Europe and Eurasia	33,033	73,130	33,733	J4,322	Ş 4 ,304	\$3,037	30,412	2.770
Western Europe								
Energy-intensive manufacturing	\$4,982	\$5,091	\$5,341	\$5,727	\$6,167	\$6,662	\$7,234	1.3%
Non-energy-intensive manufacturing	\$8,439	\$9,057	\$9,973	\$11,078	\$12,276	\$13,598	\$15,049	2.1%
Nonmanufacturing								1.7%
Total	\$4,377 \$17,798	\$4,591 \$18,738	\$5,054 \$20,368	\$5,504 \$22,309	\$5,985 \$24,428	\$6,478 \$26,738	\$7,006 \$29,289	1.8%
Russia	317,736	310,730	320,300	322,303	324,420	320,736	323,203	1.070
	\$895	¢1 007	ć1 127	¢1 20¢	¢1 474	¢1 670	¢1 000	2.7%
Energy-intensive manufacturing		\$1,007	\$1,137	\$1,296	\$1,474	\$1,678	\$1,882	3.0%
Non-energy-intensive manufacturing	\$544	\$621	\$695	\$795	\$923	\$1,075	\$1,237	1.0%
Nonmanufacturing	\$1,282	\$1,267	\$1,373	\$1,448	\$1,521	\$1,606	\$1,692	2.1%
Total Eastern Europe and Eurasia	\$2,721	\$2,895	\$3,205	\$3,539	\$3,917	\$4,359	\$4,810	2.1/0
•	¢220	¢271	¢240	¢420	¢5.42	¢602	ĊOAE	4.8%
Energy-intensive manufacturing	\$230	\$271	\$340	\$429	\$543	\$683	\$845	4.8%
Non-energy-intensive manufacturing	\$96	\$122	\$155	\$189	\$232	\$286	\$348	3.9%
Nonmanufacturing	\$750	\$838	\$1,089	\$1,317	\$1,581	\$1,863	\$2,174	4.2%
Total	\$1,076	\$1,231	\$1,584	\$1,935	\$2,356	\$2,831	\$3,367	4.2/0
Asia Pacific								
Japan Energy intensive manufacturing	Ċ0.44	ĊOZC	ćozr	ĆOCE	ćocc	ćncc	ć074	0.1%
Energy-intensive manufacturing	\$941	\$976	\$975	\$965	\$966	\$966	\$971	
Non-energy-intensive manufacturing	\$2,737	\$3,029	\$3,250	\$3,392	\$3,506	\$3,611	\$3,729	1.1%
Nonmanufacturing	\$670	\$688	\$724	\$739	\$753	\$764	\$779	0.5%
Total	\$4,349	\$4,694	\$4,949	\$5,095	\$5,224	\$5,341	\$5,480	0.8%
South Korea	¢4.007	ć1 122	Ć1 104	ć1 22C	Ć1 24C	Ć1 34F	¢1 220	0.50/
Energy-intensive manufacturing	\$1,067	\$1,133	\$1,194	\$1,236	\$1,246	\$1,245	\$1,236	0.5%
Non-energy-intensive manufacturing	\$1,692	\$1,814	\$2,098	\$2,293	\$2,447	\$2,596	\$2,743	1.7%

Nonmanufacturing	\$362	\$380	\$398	\$419	\$435	\$450	\$463	0.9%
Total	\$3,122	\$3,328	\$3,689	\$3,948	\$4,129	\$4,292	\$4,443	1.3%
Australia and New Zealand								
Energy-intensive manufacturing	\$171	\$190	\$214	\$238	\$264	\$289	\$314	2.2%
Non-energy-intensive manufacturing	\$131	\$139	\$156	\$173	\$191	\$207	\$223	1.9%
Nonmanufacturing	\$590	\$630	\$744	\$836	\$919	\$999	\$1,073	2.2%
Total	\$892	\$959	\$1,115	\$1,247	\$1,373	\$1,494	\$1,610	2.1%
China								
Energy-intensive manufacturing	\$10,799	\$12,425	\$14,638	\$16,581	\$18,226	\$19,848	\$21,143	2.4%
Non-energy-intensive manufacturing	\$25,771	\$30,556	\$38,364	\$45,937	\$52,458	\$58,676	\$63,311	3.3%
Nonmanufacturing	\$12,744	\$14,029	\$16,685	\$19,068	\$21,239	\$23,677	\$25,866	2.6%
Total	\$49,313	\$57,010	\$69,687	\$81,586	\$91,923	\$102,201	\$110,320	2.9%
India								
Energy-intensive manufacturing	\$3,724	\$4,376	\$6,422	\$9,024	\$11,948	\$15,333	\$19,223	6.0%
Non-energy-intensive manufacturing	\$3,007	\$3,489	\$5,147	\$7,194	\$9,552	\$12,282	\$15,467	6.0%
Nonmanufacturing	\$4,474	\$5,079	\$6,690	\$8,483	\$10,319	\$12,331	\$14,409	4.3%
Total	\$11,205	\$12,944	\$18,259	\$24,700	\$31,818	\$39,945	\$49,099	5.4%
Other Asia Pacific								
Energy-intensive manufacturing	\$4,475	\$5,148	\$6,568	\$8,299	\$10,345	\$12,684	\$15,285	4.5%
Non-energy-intensive manufacturing	\$8,764	\$9,834	\$12,401	\$15,113	\$18,059	\$21,140	\$24,338	3.7%
Nonmanufacturing	\$5,207	\$5,737	\$7,123	\$8,589	\$10,267	\$12,075	\$14,005	3.6%
Total	\$18,446	\$20,720	\$26,093	\$32,001	\$38,671	\$45,899	\$53,628	3.9%
Africa and Middle East								
Africa								
Energy-intensive manufacturing	\$1,364	\$1,536	\$1,874	\$2,265	\$2,702	\$3,185	\$3,719	3.6%
Non-energy-intensive manufacturing	\$885	\$998	\$1,215	\$1,468	\$1,755	\$2,069	\$2,413	3.6%
Nonmanufacturing	\$3,003	\$3,298	\$3,770	\$4,283	\$4,832	\$5,406	\$6,007	2.5%
Total	\$5,252	\$5,832	\$6,859	\$8,017	\$9,289	\$10,661	\$12,139	3.0%
Middle East								
Energy-intensive manufacturing	\$1,563	\$1,639	\$1,797	\$2,007	\$2,190	\$2,361	\$2,517	1.7%
Non-energy-intensive manufacturing	\$837	\$900	\$1,012	\$1,161	\$1,316	\$1,455	\$1,595	2.3%
Nonmanufacturing	\$2,584	\$2,789	\$3,022	\$3,251	\$3,483	\$3,712	\$3,915	1.5%
Total	\$4,983	\$5,329	\$5,831	\$6,419	\$6,989	\$7,528	\$8,026	1.7%
World								
Energy-intensive manufacturing	\$35,158	\$39,067	\$46,468	\$54,663	\$63,380	\$73,056	\$83,364	3.1%
Non-energy-intensive manufacturing	\$59,259	\$67,598	\$82,618	\$98,093	\$113,387	\$129,222	\$144,444	3.2%
Nonmanufacturing	\$41,308	\$45,097	\$53,064	\$61,031	\$69,253	\$78,198	\$87,240	2.7%
Total	\$135,726	\$151,761	\$182,150	\$213,787	\$246,020	\$280,475	\$315,048	3.1%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 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.