## Table K2. Industrial sector gross output by region and sector, High Oil Price case

billion 2015 dollars

								Average annua percentage change
Region and sector	2022	2025	2030	2035	2040	2045	2050	2022–205
Americas								
United States								
Energy-intensive manufacturing	\$2,388	\$2,461	\$2,779	\$2,962	\$3,178	\$3,434	\$3,721	1.69
Non-energy-intensive manufacturing	\$3,493	\$3,876	\$4,560	\$5,084	\$5,726	\$6,446	\$7,283	2.79
Nonmanufacturing	\$2,394	\$2,688	\$2,982	\$3,274	\$3,662	\$4,117	\$4,649	2.49
Total	\$8,275	\$9,024	\$10,320	\$11,320	\$12,567	\$13,997	\$15,653	2.39
Canada								
Energy-intensive manufacturing	\$256	\$267	\$312	\$347	\$382	\$419	\$456	2.19
Non-energy-intensive manufacturing	\$332	\$360	\$418	\$463	\$508	\$553	\$601	2.19
Nonmanufacturing	\$498	\$504	\$541	\$584	\$629	\$674	\$718	1.39
Total	\$1,086	\$1,130	\$1,270	\$1,393	\$1,519	\$1,646	\$1,775	1.89
Mexico								
Energy-intensive manufacturing	\$535	\$553	\$622	\$673	\$725	\$787	\$867	1.79
Non-energy-intensive manufacturing	\$983	\$1,042	\$1,139	\$1,244	\$1,374	\$1,532	\$1,734	2.09
Nonmanufacturing	\$466	\$494	\$538	\$577	\$611	\$644	\$674	1.39
Total	\$1,983	\$2,089	\$2,299	\$2,494	\$2,710	\$2,963	\$3,276	1.89
Brazil		.,	.,	. ,	. ,	.,		
Energy-intensive manufacturing	\$868	\$897	\$977	\$1,040	\$1,068	\$1,083	\$1,089	0.89
Non-energy-intensive manufacturing	\$612	\$659	\$746	\$825	\$879	\$923	\$962	1.69
Nonmanufacturing	\$710	\$754	\$814	\$872	\$920	\$964	\$1,005	1.29
Total	\$2,191	\$2,311	\$2,536	\$2,737	\$2,867	\$2,971	\$3,057	1.29
Other Americas	+-,	+-/	+_,	+-,	+-/	+-/	1-7	
Energy-intensive manufacturing	\$899	\$947	\$1,082	\$1,207	\$1,339	\$1,481	\$1,632	2.29
Non-energy-intensive manufacturing	\$937	\$935	\$1,078	\$1,207	\$1,337	\$1,473	\$1,627	2.09
Nonmanufacturing	\$1,197	\$1,250	\$1,382	\$1,518	\$1,658	\$1,802	\$1,956	1.89
Total	\$3,032	\$3,132	\$3,543	\$3,932	\$4,335	\$4,756	\$5,216	2.09
Europe and Eurasia	<i>\$5,052</i>	<i>40,10</i> 2	<i>40,040</i>	<i>40,50</i> 2	<i>\</i> 4,555	<i>\\\\\</i>	<i>40,</i> 210	,
Western Europe								
Energy-intensive manufacturing	\$4,982	\$4,980	\$5,061	\$5,250	\$5,487	\$5,729	\$6,005	0.79
Non-energy-intensive manufacturing	\$8,440	\$8,889	\$9,477	\$10,189	\$10,962	\$11,746	\$12,574	1.49
Nonmanufacturing	\$4,377	\$4,488	\$4,800	\$5,056	\$5,311	\$5,531	\$5,758	1.09
Total	\$17,799	\$18,357	\$19,338	\$20,494	\$21,760	\$23,006	\$24,337	1.19
Russia	\$17,799	310,337	\$15,550	320,434	321,700	323,000	<i>324,331</i>	1.17
	¢90F	¢006	¢1.0F2	ć1 101	¢1 015	¢1 206	ć1 200	1.69
Energy-intensive manufacturing	\$895	\$996	\$1,053	\$1,131	\$1,215	\$1,306	\$1,388	1.07
Non-energy-intensive manufacturing	\$544	\$603	\$629	\$673	\$733	\$801	\$868	
Nonmanufacturing	\$1,282	\$1,269	\$1,322	\$1,340	\$1,352	\$1,367	\$1,380	0.39
Total	\$2,721	\$2,868	\$3,004	\$3,144	\$3,299	\$3,474	\$3,636	1.0/
Eastern Europe and Eurasia	¢220	éacc	6242	6272	¢ 4 4 0	érac	écaa	2.70
Energy-intensive manufacturing	\$230	\$266	\$313	\$373	\$448	\$536	\$633	3.79
Non-energy-intensive manufacturing	\$96	\$119	\$142	\$163	\$189	\$222	\$259	3.69
Nonmanufacturing	\$750	\$839	\$1,044	\$1,206	\$1,383	\$1,551	\$1,718	3.09
Total	\$1,076	\$1,225	\$1,498	\$1,742	\$2,020	\$2,309	\$2,610	3.29
Asia Pacific								
Japan	****	6054	6000	6005	6070	6050	A	0.40
Energy-intensive manufacturing	\$941	\$951	\$926	\$895	\$876	\$856	\$841	-0.49
Non-energy-intensive manufacturing	\$2,737	\$2,989	\$3,144	\$3,210	\$3,242	\$3,263	\$3,289	0.79
Nonmanufacturing	\$670	\$673	\$694	\$693	\$690	\$685	\$682	0.19
Total	\$4,349	\$4,613	\$4,763	\$4,798	\$4,808	\$4,804	\$4,812	0.49
South Korea				,	,			-
Energy-intensive manufacturing	\$1,067	\$1,096	\$1,124	\$1,135	\$1,119	\$1,097	\$1,068	0.09
Non-energy-intensive manufacturing	\$1,692	\$1,783	\$2,023	\$2,169	\$2,264	\$2,353	\$2,438	1.39

Nonmanufacturing	\$362	\$369	\$377	\$390	\$397	\$401	\$404	0.4%
Total	\$3,122	\$3,247	\$3,525	\$3,694	\$3,780	\$3,851	\$3,910	0.8%
Australia and New Zealand								
Energy-intensive manufacturing	\$173	\$186	\$202	\$216	\$231	\$245	\$259	1.5%
Non-energy-intensive manufacturing	\$130	\$135	\$146	\$157	\$167	\$176	\$183	1.2%
Nonmanufacturing	\$590	\$623	\$722	\$799	\$867	\$932	\$993	1.9%
Total	\$894	\$944	\$1,070	\$1,172	\$1,265	\$1,353	\$1,435	1.7%
China								
Energy-intensive manufacturing	\$10,799	\$12,119	\$13,495	\$14,519	\$15,163	\$15,708	\$15,937	1.4%
Non-energy-intensive manufacturing	\$25,771	\$29,693	\$35,243	\$40,168	\$43,608	\$46,390	\$47,654	2.2%
Nonmanufacturing	\$12,744	\$13,764	\$15,654	\$17,107	\$18,180	\$19,260	\$19,945	1.6%
Total	\$49,313	\$55,576	\$64,392	\$71,794	\$76,951	\$81,358	\$83,536	1.9%
India								
Energy-intensive manufacturing	\$3,724	\$4,228	\$5,917	\$7,948	\$10,108	\$12,498	\$15,010	5.1%
Non-energy-intensive manufacturing	\$3,007	\$3,355	\$4,703	\$6,275	\$7,976	\$9,839	\$11,825	5.0%
Nonmanufacturing	\$4,474	\$4,973	\$6,204	\$7,486	\$8,691	\$9,921	\$11,090	3.3%
Total	\$11,205	\$12,556	\$16,824	\$21,710	\$26,774	\$32,258	\$37,924	4.5%
Other Asia Pacific								
Energy-intensive manufacturing	\$4,475	\$4,958	\$6,038	\$7,286	\$8,731	\$10,315	\$11,995	3.6%
Non-energy-intensive manufacturing	\$8,764	\$9,564	\$11,592	\$13,575	\$15,619	\$17,604	\$19,479	2.9%
Nonmanufacturing	\$5,207	\$5,631	\$6,745	\$7,801	\$8,950	\$10,088	\$11,199	2.8%
Total	\$18,447	\$20,153	\$24,375	\$28,663	\$33,300	\$38,006	\$42,673	3.0%
Africa and Middle East								
Africa								
Energy-intensive manufacturing	\$1,364	\$1,494	\$1,747	\$2,045	\$2,366	\$2,709	\$3,080	3.0%
Non-energy-intensive manufacturing	\$885	\$978	\$1,142	\$1,321	\$1,509	\$1,704	\$1,901	2.8%
Nonmanufacturing	\$3,002	\$3,252	\$3,597	\$3,971	\$4,346	\$4,713	\$5,071	1.9%
Total	\$5,251	\$5,725	\$6,486	\$7,338	\$8,221	\$9,127	\$10,051	2.3%
Middle East								
Energy-intensive manufacturing	\$1,557	\$1,680	\$1,806	\$1,990	\$2,133	\$2,235	\$2,322	1.4%
Non-energy-intensive manufacturing	\$836	\$903	\$986	\$1,117	\$1,243	\$1,345	\$1,451	2.0%
Nonmanufacturing	\$2,580	\$2,878	\$3,037	\$3,230	\$3,402	\$3,564	\$3,694	1.3%
Total	\$4,973	\$5,462	\$5,829	\$6,338	\$6,778	\$7,144	\$7,466	1.5%
World								
Energy-intensive manufacturing	\$35,153	\$38,079	\$43,453	\$49,018	\$54,569	\$60,437	\$66,303	2.3%
Non-energy-intensive manufacturing	\$59,259	\$65,885	\$77,167	\$87,839	\$97,336	\$106,370	\$114,127	2.4%
Nonmanufacturing	\$41,304	\$44,449	\$50,452	\$55,904	\$61,049	\$66,214	\$70,936	2.0%
Total	\$135,716	\$148,412	\$171,072	\$192,762	\$212,953	\$233,021	\$251,366	2.2%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hp\_230822.081357 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.