Table A15. Gross output by region and sector, Low Oil Price case

billion 2015 dollars

Region and sector	2020	2025	2030	2035	2040	2045	2050	Average annua percentage change 2020–2050
OECD								
United States								
Energy-intensive manufacturing	\$2,575	\$3,002	\$3,251	\$3,541	\$3,816	\$4,099	\$4,401	1.8
Non-energy-intensive manufacturing	\$3,666	\$4,611	\$5,084	\$5,739	\$6,420	\$7,168	\$8,018	2.6
Nonmanufacturing	\$2,456	\$2,944	\$3,234	\$3,575	\$3,924	\$4,299	\$4,724	2.2
Services	\$25,509	\$30,536	\$33,442	\$37,122	\$40,818	\$44,665	\$48,762	2.2
Total	\$34,206	\$41,093	\$45,010	\$49,977	\$54,979	\$60,232	\$65,904	2.:
Canada	ψο ., <u>_</u>	¥ .=,000	¥ 10,020	<b>4.0,0</b> 77	Ψο 1,070	700,202	<b>400,00</b> .	<del>_</del> _
Energy-intensive manufacturing	\$245	\$292	\$315	\$341	\$365	\$391	\$416	1.:
Non-energy-intensive manufacturing	\$311	\$388	\$412	\$440	\$467	\$495	\$525	1.3
Nonmanufacturing	\$458	\$519	\$554	\$591	\$623	\$653	\$683	1.3
Services	\$1,577	\$1,935	\$2,041	\$2,159	\$2,281	\$2,407	\$2,535	1.0
								1.1
Total	\$2,590	\$3,134	\$3,322	\$3,531	\$3,735	\$3,946	\$4,159	1.1
Mexico and other OECD Americas	Ć044	6047	ćono	¢4.002	Ć4 424	Ć4 20E	Ć4 270	4.1
Energy-intensive manufacturing	\$811	\$917	\$988	\$1,063	\$1,134	\$1,205	\$1,278	1.5
Non-energy-intensive manufacturing	\$926	\$1,141	\$1,215	\$1,306	\$1,406	\$1,522	\$1,664	2.0
Nonmanufacturing	\$755	\$867	\$940	\$1,020	\$1,097	\$1,158	\$1,199	1.0
Services	\$2,888	\$3,476	\$3,787	\$4,122	\$4,454	\$4,755	\$5,029	1.9
Total	\$5,380	\$6,401	\$6,930	\$7,512	\$8,091	\$8,639	\$9,171	1.8
OECD Europe								
Energy-intensive manufacturing	\$4,488	\$4,936	\$5,070	\$5,198	\$5,313	\$5,429	\$5,554	0.7
Non-energy-intensive manufacturing	\$7,156	\$8,522	\$8,912	\$9,354	\$9,814	\$10,312	\$10,833	1.4
Nonmanufacturing	\$4,159	\$4,696	\$4,871	\$4,999	\$5,112	\$5,219	\$5,317	0.8
Services	\$27,308	\$30,886	\$32,289	\$33,517	\$34,804	\$36,189	\$37,632	1.:
Total	\$43,111	\$49,041	\$51,142	\$53,068	\$55,043	\$57,149	\$59,337	1.1
Japan								
Energy-intensive manufacturing	\$1,013	\$1,089	\$1,052	\$999	\$946	\$899	\$858	-0.6
Non-energy-intensive manufacturing	\$2,584	\$3,060	\$3,075	\$3,039	\$2,999	\$2,958	\$2,928	0.4
Nonmanufacturing	\$630	\$663	\$639	\$612	\$588	\$564	\$543	-0.!
Services	\$5,566	\$5,864	\$5,877	\$5,768	\$5,658	\$5,553	\$5,476	-0.:
Total	\$9,793	\$10,677	\$10,644	\$10,417	\$10,191	\$9,975	\$9,805	0.0
South Korea								
Energy-intensive manufacturing	\$1,084	\$1,195	\$1,245	\$1,262	\$1,261	\$1,263	\$1,262	0.!
Non-energy-intensive manufacturing	\$1,508	\$1,799	\$1,924	\$1,973	\$1,984	\$2,001	\$2,009	1.0
Nonmanufacturing	\$372	\$417	\$439	\$456	\$465	\$473	\$481	0.9
Services	\$2,345	\$2,596	\$2,736	\$2,775	\$2,773	\$2,775	\$2,764	0.0
Total	\$5,309	\$6,007	\$6,344	\$6,465	\$6,483	\$6,512	\$6,516	0.7
Australia and New Zealand	, -,	1 - 7	1 - / -	, -,	1 - 7	1 - / -	, -,-	
Energy-intensive manufacturing	\$175	\$180	\$189	\$197	\$204	\$210	\$214	0.7
Non-energy-intensive manufacturing	\$123	\$131	\$138	\$145	\$151	\$156	\$160	0.9
Nonmanufacturing	\$527	\$619	\$668	\$726	\$771	\$807	\$836	1.0
Services	\$1,801	\$2,041	\$2,272	\$2,488	\$2,685	\$2,873	\$3,060	1.3
Total	\$2,626	\$2,971	\$3,267	\$3,556	\$3,811	\$4,046	\$ <b>4,270</b>	1.
	32,020	32,371	33,207	33,330	73,011	Ş <del>4</del> ,040	34,270	1.1
Total OECD  Energy intensive manufacturing	¢10.200	¢11 £12	¢12 110	\$12.600	¢12 041	¢12.406	\$12.004	4 /
Energy-intensive manufacturing	\$10,390	\$11,613	\$12,110	\$12,600	\$13,041	\$13,496	\$13,984	1.0
Non-energy-intensive manufacturing	\$16,274	\$19,652	\$20,759	\$21,995	\$23,241	\$24,612	\$26,138	1.1
Nonmanufacturing	\$9,358	\$10,725	\$11,346	\$11,979	\$12,579	\$13,173	\$13,783	1.3
Services	\$66,994	\$77,334	\$82,443	\$87,951	\$93,470	\$99,218	\$105,259	1
Total	\$103,015	\$119,324	\$126,658	\$134,526	\$142,332	\$150,498	\$159,163	1.

Energy-intensive manufacturing	\$721	\$804	\$826	\$847	\$856	\$853	\$839	0.5
Non-energy-intensive manufacturing	\$578	\$669	\$670	\$686	\$696	\$699	\$702	0.7
Nonmanufacturing	\$1,192	\$1,317	\$1,313	\$1,306	\$1,278	\$1,239	\$1,202	0.0
Services	\$3,553	\$3,885	\$3,673	\$3,542	\$3,309	\$3,024	\$2,737	-0.9
Total	\$6,044	\$6,675	\$6,482	\$6,380	\$6,139	\$5,814	\$5,480	-0.3
Other Europe and Eurasia								
Energy-intensive manufacturing	\$584	\$641	\$669	\$716	\$762	\$801	\$837	1.2
Non-energy-intensive manufacturing	\$460	\$530	\$552	\$583	\$614	\$642	\$666	1.2
Nonmanufacturing	\$996	\$1,089	\$1,150	\$1,205	\$1,246	\$1,272	\$1,301	0.9
Services	\$2,672	\$3,128	\$3,330	\$3,545	\$3,705	\$3,815	\$3,891	1.3
Total	\$4,712	\$5,389	\$5,700	\$6,049	\$6,326	\$6,530	\$6,695	1.2
China								
Energy-intensive manufacturing	\$13,218	\$15,412	\$16,310	\$16,673	\$16,643	\$16,431	\$15,979	0.6
Non-energy-intensive manufacturing	\$23,190	\$28,830	\$32,148	\$34,857	\$36,493	\$37,506	\$37,487	1.6
Nonmanufacturing	\$10,745	\$12,563	\$13,574	\$14,249	\$14,608	\$14,782	\$14,905	1.1
Services	\$29,694	\$39,805	\$48,440	\$56,657	\$64,183	\$71,482	\$77,481	3.2
Total	\$76,846	\$96,610	\$110,471	\$122,437	\$131,928	\$140,201	\$145,853	2.2
India	,.	, ,	,	. , -	, - ,	, ,, -	, ,,,,,,	
Energy-intensive manufacturing	\$3,311	\$4,553	\$6,136	\$7,724	\$9,178	\$10,549	\$11,703	4.3
Non-energy-intensive manufacturing	\$2,526	\$3,836	\$5,251	\$6,668	\$8,072	\$9,482	\$10,832	5.0
Nonmanufacturing	\$3,750	\$5,157	\$6,509	\$7,795	\$9,024	\$10,170	\$11,025	3.7
Services	\$6,692	\$9,403	\$12,888	\$16,443	\$19,890	\$23,356	\$26,703	4.7
Total	\$16,278	\$22,948	\$30,785	\$38,631	\$46,164	\$53,557	\$60,263	4.5
Other Asia	<b>410,170</b>	<b>4</b> ,0 .0	ψουμ. σο	<b>400,00</b>	Ψ .0,20 .	Ψου,σου.	¥00,200	
Energy-intensive manufacturing	\$3,226	\$3,890	\$4,483	\$5,161	\$5,861	\$6,569	\$7,264	2.7
Non-energy-intensive manufacturing	\$6,062	\$7,428	\$8,456	\$9,398	\$10,269	\$11,019	\$11,643	2.2
Nonmanufacturing	\$4,109	\$4,991	\$5,885	\$6,788	\$7,736	\$8,677	\$9,565	2.9
Services	\$11,758	\$14,388	\$16,901	\$19,243	\$21,521	\$23,707	\$25,659	2.6
Total	\$25,156	\$30,698	\$35,725	\$40,590	\$45,387	\$49,972	\$54,132	2.6
Middle East	323,130	<b>330,036</b>	333,723	340,330	343,36 <i>1</i>	343,372	334,13 <b>2</b>	2.0
Energy-intensive manufacturing	\$1,392	\$1,633	\$1,767	¢1 960	¢1 022	\$1,951	\$1,941	1.1
				\$1,869	\$1,933			
Non-energy-intensive manufacturing	\$383	\$475	\$525	\$556	\$579	\$595	\$609	1.6
Nonmanufacturing Services	\$2,435 \$4,545	\$2,733	\$2,921 \$5,757	\$3,093	\$3,267	\$3,450	\$3,638 \$7,228	1.3
Total	\$ <b>4</b> ,343 <b>\$8,755</b>	\$5,241 <b>\$10,082</b>	\$10,970	\$6,194 <b>\$11,712</b>	\$6,554 <b>\$12,332</b>	\$6,908 <b>\$12,903</b>	\$13,417	1.6
	\$6,755	\$10,062	\$10,570	\$11,712	\$12, <b>33</b> 2	\$12,503	\$15,417	1.4
Africa	¢1.250	ć1 410	Ć1 C1E	Ć1 020	¢2.052	¢2.201	¢2.511	2.2
Energy-intensive manufacturing	\$1,256	\$1,419	\$1,615	\$1,829	\$2,053	\$2,281	\$2,511	2.3
Non-energy-intensive manufacturing	\$921	\$1,087	\$1,228	\$1,380	\$1,531	\$1,678	\$1,820	2.3
Nonmanufacturing	\$3,114	\$3,507	\$3,988	\$4,473	\$4,972	\$5,484	\$6,012	2.2
Services	\$6,095	\$6,904	\$7,709	\$8,484	\$9,266	\$9,990	\$10,684	1.9
Total	\$11,386	\$12,917	\$14,540	\$16,166	\$17,823	\$19,433	\$21,028	2.1
Brazil								
Energy-intensive manufacturing	\$777	\$862	\$907	\$920	\$922	\$923	\$923	0.6
Non-energy-intensive manufacturing	\$481	\$603	\$634	\$645	\$651	\$660	\$670	1.1
Nonmanufacturing	\$668	\$748	\$775	\$789	\$816	\$865	\$929	1.1
Services	\$2,997	\$3,205	\$3,297	\$3,331	\$3,320	\$3,292	\$3,253	0.3
Total	\$4,922	\$5,418	\$5,612	\$5,685	\$5,709	\$5,740	\$5,776	0.5
Other Non-OECD Americas								
Energy-intensive manufacturing	\$449	\$509	\$572	\$619	\$670	\$727	\$786	1.9
Non-energy-intensive manufacturing	\$473	\$559	\$624	\$683	\$753	\$837	\$938	2.3
Nonmanufacturing	\$677	\$792	\$877	\$945	\$1,014	\$1,087	\$1,161	1.8
Services	\$2,295	\$2,656	\$2,945	\$3,130	\$3,320	\$3,519	\$3,718	1.6
Total	\$3,895	\$4,516	\$5,018	\$5,377	\$5,758	\$6,169	\$6,603	1.8
Total Non-OECD								
Energy-intensive manufacturing	\$24,934	\$29,723	\$33,285	\$36,358	\$38,878	\$41,085	\$42,784	1.8
Non-energy-intensive manufacturing	\$35,074	\$44,017	\$50,087	\$55,456	\$59,657	\$63,117	\$65,368	2.1
Nonmanufacturing	\$27,685	\$32,898	\$36,991	\$40,643	\$43,962	\$47,026	\$49,738	2.0

Total	\$157,994	\$195,254	\$225,304	\$253,026	\$277,566	\$300,320	\$319,244	2.4
World								
Energy-intensive manufacturing	\$35,323	\$41,335	\$45,394	\$48,958	\$51,919	\$54,580	\$56,768	1.6
Non-energy-intensive manufacturing	\$51,348	\$63,669	\$70,846	\$77,451	\$82,899	\$87,729	\$91,506	1.9
Nonmanufacturing	\$37,043	\$43,623	\$48,338	\$52,623	\$56,542	\$60,199	\$63,521	1.8
Services	\$137,294	\$165,950	\$187,384	\$208,520	\$228,538	\$248,310	\$266,612	2.2
Total	\$261,009	\$314,578	\$351,962	\$387,552	\$419,898	\$450,818	\$478,407	2.0

Sources: Table by the U.S. Energy Information Administration (EIA), based on Oxford Global Industry Model, (March 2021), www.oxfordeconomics.com (subscription site); EIA, World Energy Projection System (2021), run lp\_210720.081941; and EIA, Annual Energy Outlook 2021, (February 2021), www.eia.gov/aeo Notes:

 $<sup>\</sup>ensuremath{^{*}}$  Totals may not equal sum of components due to independent rounding.

<sup>\*</sup> Gross output is sales or revenue, including final and intermediate goods and services, measured in purchasing power parity (PPP).