## Table A15. Gross output by region and sector, Low Economic Growth case

billion 2015 dollars

Region and sector	2020	2025	2030	2035	2040	2045
OECD						
United States						
Energy-intensive manufacturing	\$2,575	\$2,841	\$2,993	\$3,174	\$3,337	\$3,522
Non-energy-intensive manufacturing	\$3,666	\$4,320	\$4,651	\$5,107	\$5,565	\$6,097
Nonmanufacturing	\$2,456	\$2,760	\$2,968	\$3,219	\$3,451	\$3,709
Services	\$25,509	\$29,042	\$31,070	\$33 <i>,</i> 654	\$36,145	\$38,886
Total	\$34,206	\$38,964	\$41,682	\$45,153	\$48,498	\$52,214
Canada						
Energy-intensive manufacturing	\$245	\$290	\$313	\$338	\$362	\$387
Non-energy-intensive manufacturing	\$311	\$385	\$409	\$436	\$463	\$492
Nonmanufacturing	\$458	\$512	\$550	\$589	\$621	\$650
Services	\$1,577	\$1,933	\$2,041	\$2,155	\$2,278	\$2,403
Total	\$2,590	\$3,120	\$3,314	\$3,518	\$3,724	\$3,932
Mexico and other OECD Americas						
Energy-intensive manufacturing	\$811	\$912	\$981	\$1,054	\$1,124	\$1,195
Non-energy-intensive manufacturing	\$926	\$1,128	\$1,209	\$1,300	\$1,404	\$1,524
Nonmanufacturing	\$755	\$863	\$939	\$1,019	\$1,096	\$1,158
Services	\$2,888	\$3,472	\$3,791	\$4,125	\$4,460	\$4,768
Total	\$5,380	\$6,375	\$6,920	\$7,498	\$8,084	\$8,645
OECD Europe						
Energy-intensive manufacturing	\$4,488	\$4,907	\$5,034	\$5,157	\$5,269	\$5,377
Non-energy-intensive manufacturing	\$7,156	\$8,462	\$8,841	\$9,273	\$9,725	\$10,204
Nonmanufacturing	\$4,159	\$4,678	\$4,845	\$4,963	\$5 <i>,</i> 065	\$5,152
Services	\$27,308	\$30,766	\$32,111	\$33,287	\$34,529	\$35,826
Total	\$43,111	\$48,813	\$50,831	\$52,680	\$54,588	\$56,559
Japan						
Energy-intensive manufacturing	\$1,013	\$1,082	\$1,044	\$989	\$936	\$888
Non-energy-intensive manufacturing	\$2,584	\$3,040	\$3,054	\$3,015	\$2,972	\$2,929
Nonmanufacturing	\$630	\$661	\$638	\$611	\$586	\$561
Services	\$5,566	\$5 <i>,</i> 853	\$5 <i>,</i> 866	\$5,758	\$5,648	\$5,545
Total	\$9,793	\$10,637	\$10,603	\$10,373	\$10,143	\$9,923
South Korea						
Energy-intensive manufacturing	\$1,084	\$1,183	\$1,230	\$1,244	\$1,242	\$1,240
Non-energy-intensive manufacturing	\$1,508	\$1,787	\$1,911	\$1,958	\$1,970	\$1,987
Nonmanufacturing	\$372	\$415	\$439	\$456	\$465	\$473
Services	\$2,345	\$2,587	\$2,729	\$2,769	\$2,768	\$2,772
Total	\$5,309	\$5,972	\$6,309	\$6,427	\$6,445	\$6,472
Australia and New Zealand						
Energy-intensive manufacturing	\$175	\$179	\$186	\$193	\$199	\$203

Non-energy-intensive manufacturing	\$123	\$129	\$135	\$142	\$148	\$152
Nonmanufacturing	\$527	\$622	\$680	\$744	\$793	\$834
Services	\$1,801	\$2,023	\$2,235	\$2,437	\$2,620	\$2,788
Total	\$2,626	\$2,953	\$3,236	\$3,515	\$3,759	\$3,978
Total OECD						
Energy-intensive manufacturing	\$10,390	\$11,394	\$11,781	\$12,150	\$12,469	\$12,813
Non-energy-intensive manufacturing	\$16,274	\$19,252	\$20,211	\$21,232	\$22,247	\$23,385
Nonmanufacturing	\$9,358	\$10,512	\$11,061	\$11,600	\$12,077	\$12,538
Services	\$66,994	\$75,677	\$79 <i>,</i> 843	\$84,184	\$88,449	\$92 <i>,</i> 988
Total	\$103,015	\$116,834	\$122,895	\$129,165	\$135,241	\$141,723
Non-OECD						
Russia						
Energy-intensive manufacturing	\$721	\$802	\$821	\$840	\$848	\$844
Non-energy-intensive manufacturing	\$578	\$666	\$665	\$678	\$687	\$689
Nonmanufacturing	\$1,192	\$1,333	\$1,339	\$1,332	\$1,303	\$1,267
Services	\$3 <i>,</i> 553	\$3,877	\$3,650	\$3,499	\$3,258	\$2,969
Total	\$6,044	\$6,677	\$6,476	\$6,349	\$6,096	\$5,768
Other Europe and Eurasia						
Energy-intensive manufacturing	\$584	\$638	\$664	\$710	\$755	\$793
Non-energy-intensive manufacturing	\$460	\$526	\$547	\$577	\$607	\$633
Nonmanufacturing	\$996	\$1,094	\$1,158	\$1,213	\$1,254	\$1,284
Services	\$2,672	\$3,116	\$3,306	\$3,508	\$3 <i>,</i> 660	\$3,761
Total	\$4,712	\$5,375	\$5,675	\$6,008	\$6,276	\$6,471
China						
Energy-intensive manufacturing	\$13,218	\$15,321	\$16,191	\$16,534	\$16,498	\$16,273
Non-energy-intensive manufacturing	\$23,190	\$28,626	\$31,883	\$34,543	\$36,144	\$37,104
Nonmanufacturing	\$10,745	\$12,545	\$13,572	\$14,267	\$14,642	\$14,823
Services	\$29,694	\$39,681	\$48,239	\$56,413	\$63,929	\$71,177
Total	\$76,846	\$96,174	\$109,885	\$121,757	\$131,214	\$139,376
India						
Energy-intensive manufacturing	\$3,311	\$4,527	\$6,098	\$7 <i>,</i> 679	\$9,126	\$10,494
Non-energy-intensive manufacturing	\$2,526	\$3,816	\$5,225	\$6,640	\$8,041	\$9 <i>,</i> 454
Nonmanufacturing	\$3,750	\$5,151	\$6,503	\$7,796	\$9,030	\$10,187
Services	\$6,692	\$9,379	\$12,847	\$16,397	\$19,845	\$23,316
Total	\$16,278	\$22,874	\$30,673	\$38,513	\$46,042	\$53,452
Other Asia						
Energy-intensive manufacturing	\$3,226	\$3,867	\$4,445	\$5,101	\$5,784	\$6,469
Non-energy-intensive manufacturing	\$6,062	\$7,382	\$8 <i>,</i> 408	\$9,340	\$10,196	\$10,937
Nonmanufacturing	\$4,109	\$4,982	\$5,875	\$6,774	\$7,722	\$8,662
Services	\$11,758	\$14,333	\$16,829	\$19,139	\$21,389	\$23,542
Total	\$25,156	\$30,564	\$35,557	\$40,353	\$45,091	\$49,609
Middle East						
Energy-intensive manufacturing	\$1,392	\$1,632	\$1,765	\$1,864	\$1,926	\$1,942
Non-energy-intensive manufacturing	\$383	\$475	\$524	\$553	\$575	\$589
Nonmanufacturing	\$2,435	\$2,744	\$2,939	\$3,108	\$3,284	\$3,467
Services	\$4,545	\$5,269	\$5,814	\$6,257	\$6,644	\$7,028
Total	\$8,755	\$10,120	\$11,041	\$11,782	\$12,429	\$13,026

Services	\$137,294 <b>\$261,009</b>	\$164,085 <b>\$311,428</b>	\$184,473 <b>\$347,330</b>	\$204,326 <b>\$381,083</b>	\$223,052 <b>\$411,572</b>	\$241,54 <b>\$440,63</b>
Nonmanufacturing	\$37,043	\$43,402	\$48,082	\$52,286	\$56,100	\$59,64
Non-energy-intensive manufacturing	\$51,348	\$62,986	\$69,940	\$76,257	\$81,414	\$85,942
Energy-intensive manufacturing	\$35,323	\$40,954	\$44,834	\$48,213	\$51,006	\$53,500
World						
Total	\$157,994	\$194,593	\$224,435	\$251,918	\$276,331	\$298,90
Services	\$70,300	\$88,409	\$104,631	\$120,142	\$134,603	\$148,558
Nonmanufacturing	\$27,685	\$32,891	\$37,021	\$40,686	\$44,023	\$47,104
Non-energy-intensive manufacturing	\$35,074	\$43,734	\$49,730	\$55,026	\$59,167	\$62,55
Energy-intensive manufacturing	\$24,934	\$29,560	\$33,053	\$36,063	\$38,538	\$40,687
Total Non-OECD						
Total	\$3,895	\$4,494	\$4,996	\$5,342	\$5,711	\$6,113
Services	\$2,295	\$2,645	\$2,936	\$3,115	\$3,299	\$3,492
Nonmanufacturing	\$677	\$788	\$873	\$938	\$1,005	\$1,076
Non-energy-intensive manufacturing	\$473	\$556	\$621	\$679	\$748	\$833
Energy-intensive manufacturing	\$449	\$505	\$566	\$610	\$658	\$712
Other Non-OECD Americas						
Total	\$4,922	\$5,405	\$5,606	\$5,674	\$5,700	\$5,73
Services	\$2,997	\$3,199	\$3,297	\$3,331	\$3,323	\$3,299
Nonmanufacturing	\$668	\$748	\$776	\$790	\$818	\$868
Non-energy-intensive manufacturing	\$481	\$601	\$632	\$643	\$649	\$658
Energy-intensive manufacturing	\$777	\$856	\$900	\$911	\$911	\$910
Brazil						
Total	\$11,386	\$12,913	\$14,526	\$16,140	\$17,773	\$19,356
Services	\$6,095	\$6,908	\$7,713	\$8,483	\$9,257	\$9,973
Nonmanufacturing	\$3,114	\$3,507	\$3,986	\$4,468	\$4,964	\$5,471
Non-energy-intensive manufacturing	\$921	\$1,086	\$1,225	\$1,373	\$1,520	\$1,662
Energy-intensive manufacturing	\$1,256	\$1,412	\$1,604	\$1,815	\$2 <i>,</i> 033	\$2,251

Sources: Table by the U.S. Energy Information Administration (EIA), based on Oxford Global Industry Model, (March 2021), www site); EIA, World Energy Projection System (2021), run Im\_210719.163843; and EIA, *Annual Energy Outlook 2021*, (February 202 Notes:

\* 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 (PP

	age annual ge change,
2050	2020–2050
\$3,694	1.2
\$6,627	2.0
\$3,956	1.6
\$41,510	1.6
\$55,786	1.6
\$411	1.7
\$519	1.7
\$678	1.3
\$2,526	1.6
\$4,134	1.6
\$1,267	1.5
\$1,663	2.0
\$1,198	1.5
\$5,043	1.9
\$9,171	1.8
\$5,503	0.7
\$10,717	1.4
\$5,233	0.8
\$37,237	1.0
\$58,691	1.0
\$38,031	1.0
\$846	-0.6
\$2,894	0.4
\$539	-0.5
\$5 <i>,</i> 468	-0.1
\$9,746	0.0
\$1,237	0.4
\$1,994	0.9
\$479	0.8
\$2,762	0.5
\$6,472	0.7
\$207	0.6

\$155	0.8
\$865	1.7
\$2,963	1.7
\$4,190	1.6
34,130	1.0
\$13,166	0.8
\$24,570	1.4
\$12,947	1.1
\$97,508	1.3
\$148,191	1.2
Ş1 <del>4</del> 0,151	1.2
\$827	0.5
\$690	0.6
\$1,224	0.1
\$2,675	-0.9
\$5,416	-0.4
\$828	1.2
\$656	1.2
\$1,309	0.9
\$3,829	1.2
\$6,622	1.1
<i>\\</i>	
\$15,831	0.6
\$37,092	1.6
\$14,966	1.1
\$77,206	3.2
\$145,094	2.1
\$11,659	4.3
\$10,817	5.0
\$11,062	3.7
\$26,697	4.7
\$60,235	4.5
\$7,140	2.7
\$7,140 \$11,548	2.7 2.2
\$11,548 \$9,556	
\$11,548	2.2
\$11,548 \$9,556	2.2 2.9
\$11,548 \$9,556 \$25,469 <b>\$53,713</b>	2.2 2.9 2.6 <b>2.6</b>
\$11,548 \$9,556 \$25,469 <b>\$53,713</b> \$1,929	2.2 2.9 2.6 <b>2.6</b> 1.1
\$11,548 \$9,556 \$25,469 <b>\$53,713</b> \$1,929 \$600	2.2 2.9 2.6 <b>2.6</b> 1.1 1.5
\$11,548 \$9,556 \$25,469 <b>\$53,713</b> \$1,929 \$600 \$3,642	2.2 2.9 2.6 <b>2.6</b> 1.1 1.5 1.4
\$11,548 \$9,556 \$25,469 <b>\$53,713</b> \$1,929 \$600	2.2 2.9 2.6 <b>2.6</b> 1.1 1.5

\$2,477	2.3
\$1,799	2.3
\$5,996	2.2
\$10,663	1.9
\$20,934	2.1
\$910	0.5
\$667	1.1
\$932	1.1
\$3,264	0.3
\$5,773	0.5
\$769	1.8
\$932	2.3
\$1,148	1.8
\$3,683	1.6
\$6,532	1.7
\$42,369	1.8
\$64,801	2.1
\$49,834	2.0
\$160,834	2.8
\$317,838	2.4
\$55,534	1.5
\$89,371	1.9
\$62,782	1.8
\$258,342	2.1
\$466,029	2.0

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1), www.eia.gov/aeo

Ρ).