Table A15. Gross output by region and sector, Reference case

billion 2015 dollars

								percentage chang
Region and sector	2020	2025	2030	2035	2040	2045	2050	2020–20
DECD								
United States								
Energy-intensive manufacturing	\$2,575	\$3,000	\$3,253	\$3,539	\$3,810	\$4,128	\$4,454	1
Non-energy-intensive manufacturing	\$3,666	\$4,588	\$5,061	\$5,690	\$6,332	\$7,117	\$7,949	2
Nonmanufacturing	\$2,456	\$2,891	\$3,170	\$3,493	\$3,811	\$4,191	\$4,594	2
Services	\$25,509	\$30,567	\$33,577	\$37,271	\$40,916	\$45,131	\$49,451	2
Total	\$34,206	\$41,047	\$45,061	\$49,994	\$54,868	\$60,567	\$66,447	2
Canada								
Energy-intensive manufacturing	\$245	\$299	\$331	\$368	\$406	\$448	\$490	2
Non-energy-intensive manufacturing	\$311	\$398	\$433	\$475	\$519	\$568	\$618	2
Nonmanufacturing	\$458	\$520	\$568	\$620	\$668	\$715	\$765	-
Services	\$1,577	\$1,986	\$2,149	\$2,335	\$2,537	\$2,756	\$2,983	2
Total	\$2,590	\$3,203	\$3,481	\$3,797	\$4,129	\$4,486	\$4,856	2
Mexico and other OECD Americas								
Energy-intensive manufacturing	\$811	\$937	\$1,033	\$1,140	\$1,246	\$1,359	\$1,477	
Non-energy-intensive manufacturing	\$926	\$1,168	\$1,278	\$1,412	\$1,565	\$1,747	\$1,961	
Nonmanufacturing	\$755	\$879	\$975	\$1,081	\$1,191	\$1,287	\$1,364	
Services	\$2,888	\$3,570	\$4,001	\$4,479	\$4,979	\$5,475	\$5,960	
Total	\$5,380	\$6,554	\$7,287	\$8,112	\$8,980	\$9,868	\$10,762	
DECD Europe	, . ,	,	. , -	1-7	1 -7	1.7	, .	
Energy-intensive manufacturing	\$4,488	\$5,018	\$5,256	\$5,511	\$5,760	\$6,020	\$6,309	
Non-energy-intensive manufacturing	\$7,156	\$8,690	\$9,305	\$10,032	\$10,798	\$11,646	\$12,559	
Nonmanufacturing	\$4,159	\$4,783	\$5,069	\$5,328	\$5,577	\$5,832	\$6,091	
Services	\$27,308	\$31,496	\$33,635	\$35,734	\$37,970	\$40,407	\$43,042	
Total	\$43,111	\$49,987	\$53,264	\$56,605	\$60,104	\$63,905	\$68,000	
Japan	Ų 10,111	ψ 15,507	φ 33 ,23 .	450,005	Ψ00,20.	Ψ00,000	400,000	-
Energy-intensive manufacturing	\$1,013	\$1,107	\$1,095	\$1,067	\$1,039	\$1,016	\$998	
Non-energy-intensive manufacturing	\$2,584	\$3,121	\$3,206	\$3,249	\$3,286	\$3,325	\$3,372	
Nonmanufacturing	\$630	\$676	\$666	\$653	\$641	\$628	\$615	
Services	\$5,566	\$5,976	\$6,116	\$6,135	\$6,149	\$6,168	\$6,214	
Total	\$9,793	\$10,881	\$11,083	\$11,105	\$11,116	\$11,137	\$11,199	
South Korea	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$10,001	311,063	311,103	311,110	311,137	311,199	
Energy-intensive manufacturing	\$1,084	\$1,215	\$1,291	\$1,338	\$1,369	\$1,402	\$1,432	
Non-energy-intensive manufacturing	\$1,508	\$1,830	\$1,998	\$2,102	\$2,172	\$2,255	\$2,328	
Nonmanufacturing	\$372	\$423	\$457	\$487	\$509	\$532	\$553	
Services	\$2,345	\$2,654	\$2,869	\$2,992	\$3,073	\$3,164	\$3,239	
Total	\$5,309	\$6,122	\$6,615	\$6,919	\$7,122	\$7,353	\$7,552	
Australia and New Zealand	¢17F	¢102	¢104	¢anc	¢210	ຕ່າງຄ	ຕ່າວດ	
Energy-intensive manufacturing	\$175	\$182	\$194	\$206	\$218	\$228	\$238	
Non-energy-intensive manufacturing	\$123	\$133	\$142	\$152	\$162	\$171	\$179	
Nonmanufacturing	\$527	\$637	\$718	\$813	\$897	\$981	\$1,062	
Services	\$1,801	\$2,073	\$2,337	\$2,604	\$2,858	\$3,109	\$3,377	
Total	\$2,626	\$3,025	\$3,391	\$3,775	\$4,135	\$4,489	\$4,856	
Total OECD	440.000	A44 ====	642	640.400	642.01=	A4 4 222	645.000	
Energy-intensive manufacturing	\$10,390	\$11,759	\$12,452	\$13,169	\$13,847	\$14,600	\$15,398	
Non-energy-intensive manufacturing	\$16,274	\$19,927	\$21,423	\$23,113	\$24,832	\$26,828	\$28,966	
Nonmanufacturing	\$9,358	\$10,809	\$11,623	\$12,475	\$13,293	\$14,167	\$15,045	
Services	\$66,994	\$78,322	\$84,684	\$91,550	\$98,482	\$106,211	\$114,264	
Total	\$103,015	\$120,818	\$130,182	\$140,307	\$150,455	\$161,806	\$173,673	:

Energy-intensive manufacturing	\$721	\$845	\$910	\$978	\$1,037	\$1,086	\$1,117	1.5
Non-energy-intensive manufacturing	\$578	\$705	\$742	\$798	\$853	\$903	\$951	1.7
Nonmanufacturing	\$1,192	\$1,393	\$1,466	\$1,525	\$1,560	\$1,581	\$1,591	1.0
Services	\$3,553	\$4,144	\$4,194	\$4,361	\$4,448	\$4,476	\$4,469	0.8
Total	\$6,044	\$7,087	\$7,311	\$7,661	\$7,898	\$8,045	\$8,128	1.0
Other Europe and Eurasia								
Energy-intensive manufacturing	\$584	\$669	\$729	\$815	\$907	\$996	\$1,084	2.1
Non-energy-intensive manufacturing	\$460	\$552	\$602	\$667	\$736	\$804	\$872	2.2
Nonmanufacturing	\$996	\$1,149	\$1,284	\$1,423	\$1,560	\$1,694	\$1,824	2.0
Services	\$2,672	\$3,278	\$3,667	\$4,119	\$4,564	\$4,993	\$5,420	2.4
Total	\$4,712	\$5,648	\$6,282	\$7,024	\$7,767	\$8,486	\$9,200	2.3
China	. ,	1.7	, .	. ,-	. , -	,	12, 22	
Energy-intensive manufacturing	\$13,218	\$16,128	\$17,835	\$19,089	\$19,964	\$20,665	\$21,104	1.6
Non-energy-intensive manufacturing	\$23,190	\$30,159	\$35,154	\$39,903	\$43,729	\$47,052	\$49,315	2.5
Nonmanufacturing	\$10,745	\$12,933	\$14,432	\$15,674	\$16,611	\$17,408	\$18,186	1.8
Services	\$29,694	\$41,438	\$52,516	\$64,041	\$75,581	\$87,631	\$98,862	4.1
Total	\$76,846	\$100,658	\$119,938	\$138,707	\$155,885	\$172,757	\$187,467	3.0
India	<i>φτο</i> ,ο το		Ÿ 113,330	Ψ130,707		Ψ= <i>1</i> = <i>1</i> , σ,	Ψ207,107	3.0
Energy-intensive manufacturing	\$3,311	\$4,850	\$6,949	\$9,325	\$11,818	\$14,520	\$17,233	5.7
Non-energy-intensive manufacturing	\$2,526	\$4,087	\$5,957	\$8,070	\$10,418	\$13,077	\$17,233	6.3
Nonmanufacturing	\$3,750	\$5,326	\$6,981	\$8,733	\$10,418	\$13,077	\$13,962	4.6
Services	\$6,692	\$9,853	\$14,135	\$18,897	\$23,952	\$29,492	\$35,373	5.7
Total						\$69,680		5.6
	\$16,278	\$24,116	\$34,023	\$45,025	\$56,786	\$05,06U	\$83,016	5.0
Other Asia	ć2.22C	Ć4.0F2	¢4.000	¢r 022	¢c 001	Ć0.045	Ć0 241	2.0
Energy-intensive manufacturing	\$3,226	\$4,053	\$4,866	\$5,833	\$6,901	\$8,045	\$9,241	3.6
Non-energy-intensive manufacturing	\$6,062	\$7,778	\$9,273	\$10,828	\$12,373	\$13,892	\$15,377	3.2
Nonmanufacturing	\$4,109	\$5,176	\$6,353	\$7,666	\$9,143	\$10,743	\$12,415	3.8
Services	\$11,758	\$15,155	\$18,724	\$22,447	\$26,403	\$30,576	\$34,788	3.7
Total	\$25,156	\$32,162	\$39,216	\$46,773	\$54,821	\$63,256	\$71,820	3.6
Middle East								
Energy-intensive manufacturing	\$1,392	\$1,691	\$1,875	\$2,040	\$2,179	\$2,275	\$2,345	1.8
Non-energy-intensive manufacturing	\$383	\$497	\$568	\$623	\$672	\$709	\$738	2.2
Nonmanufacturing	\$2,435	\$2,802	\$3,059	\$3,292	\$3,533	\$3,776	\$4,017	1.7
Services	\$4,545	\$5,670	\$6,636	\$7,550	\$8,456	\$9,364	\$10,251	2.7
Total	\$8,755	\$10,660	\$12,139	\$13,505	\$14,841	\$16,123	\$17,350	2.3
Africa								
Energy-intensive manufacturing	\$1,256	\$1,483	\$1,769	\$2,100	\$2,464	\$2,860	\$3,289	3.3
Non-energy-intensive manufacturing	\$921	\$1,143	\$1,359	\$1,601	\$1,864	\$2,141	\$2,430	3.3
Nonmanufacturing	\$3,114	\$3,581	\$4,155	\$4,754	\$5,394	\$6,073	\$6,795	2.6
Services	\$6,095	\$7,241	\$8,566	\$9,993	\$11,587	\$13,281	\$15,078	3.1
Total	\$11,386	\$13,449	\$15,849	\$18,448	\$21,309	\$24,355	\$27,592	3.0
Brazil								
Energy-intensive manufacturing	\$777	\$899	\$993	\$1,061	\$1,097	\$1,114	\$1,119	1.2
Non-energy-intensive manufacturing	\$481	\$630	\$696	\$747	\$780	\$803	\$820	1.8
Nonmanufacturing	\$668	\$777	\$845	\$911	\$971	\$1,028	\$1,080	1.6
Services	\$2,997	\$3,368	\$3,659	\$3,910	\$4,077	\$4,192	\$4,268	1.2
Total	\$4,922	\$5,674	\$6,194	\$6,630	\$6,925	\$7,137	\$7,287	1.3
Other Non-OECD Americas								
Energy-intensive manufacturing	\$449	\$522	\$601	\$662	\$726	\$795	\$867	2.2
Non-energy-intensive manufacturing	\$473	\$581	\$669	\$749	\$837	\$942	\$1,062	2.7
Nonmanufacturing	\$677	\$808	\$914	\$1,004	\$1,097	\$1,196	\$1,299	2.2
Services	\$2,295	\$2,804	\$3,272	\$3,652	\$4,057	\$4,494	\$4,959	2.6
Total	\$3,895	\$4,715	\$5,457	\$6,066	\$6,717	\$7,428	\$8,187	2.5
Total Non-OECD								
Energy-intensive manufacturing	\$24,934	\$31,141	\$36,528	\$41,903	\$47,093	\$52,357	\$57,399	2.8
Non-energy-intensive manufacturing	\$35,074	\$46,133	\$55,021	\$63,986	\$72,262	\$80,323	\$87,526	3.1
Nonmanufacturing	\$27,685	\$33,945	\$39,489	\$44,982	\$50,468	\$56,090	\$61,655	2.7
Services	\$70,300	\$92,951	\$115,370	\$138,970	\$163,126	\$188,498	\$213,468	3.8
	7,0,300	Ψ <i>32,33</i> ±	7113,370	Ç130,370	7100,120	Ç100,400	7213,700	3.0

Total	\$157,994	\$204,169	\$246,409	\$289,840	\$332,949	\$377,267	\$420,047	3.3
World								
Energy-intensive manufacturing	\$35,323	\$42,900	\$48,980	\$55,072	\$60,940	\$66,957	\$72,797	2.4
Non-energy-intensive manufacturing	\$51,348	\$66,060	\$76,445	\$87,098	\$97,094	\$107,151	\$116,492	2.8
Nonmanufacturing	\$37,043	\$44,754	\$51,112	\$57,457	\$63,762	\$70,256	\$76,699	2.5
Services	\$137,294	\$171,273	\$200,054	\$230,520	\$261,608	\$294,709	\$327,732	2.9
Total	\$261,009	\$324,987	\$376,591	\$430,147	\$483,404	\$539,073	\$593,720	2.8

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 r_210719.163829; and EIA, Annual Energy Outlook 2021, (February 2021), www.eia.gov/aeo Notes:

 $[\]ensuremath{^{*}}$ 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 (PPP).