## Table A16. World gross output by region and sector, Low Economic Growth case (billion 2015 dollars)

<table>
<thead>
<tr>
<th>Region and sector</th>
<th>2022</th>
<th>2025</th>
<th>2030</th>
<th>2035</th>
<th>2040</th>
<th>2045</th>
<th>2050</th>
<th>Average annual percentage change, 2022–2050</th>
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<tr>
<td><strong>Americas</strong></td>
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<tr>
<td>Energy-intensive manufacturing</td>
<td>$4,946</td>
<td>$4,948</td>
<td>$5,255</td>
<td>$5,463</td>
<td>$5,712</td>
<td>$6,028</td>
<td>$6,380</td>
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<tr>
<td>Non-energy-intensive manufacturing</td>
<td>$6,357</td>
<td>$6,530</td>
<td>$7,124</td>
<td>$7,645</td>
<td>$8,262</td>
<td>$8,974</td>
<td>$9,801</td>
<td>1.6%</td>
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<tr>
<td>Nonmanufacturing</td>
<td>$5,265</td>
<td>$5,465</td>
<td>$5,792</td>
<td>$6,174</td>
<td>$6,590</td>
<td>$7,061</td>
<td>$7,571</td>
<td>1.3%</td>
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<tr>
<td>Services</td>
<td>$40,511</td>
<td>$41,644</td>
<td>$44,688</td>
<td>$47,607</td>
<td>$50,963</td>
<td>$54,748</td>
<td>$58,985</td>
<td>1.4%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$57,079</td>
<td>$58,586</td>
<td>$62,858</td>
<td>$66,888</td>
<td>$71,527</td>
<td>$76,810</td>
<td>$82,738</td>
<td>1.3%</td>
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<tr>
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<td>$2,436</td>
<td>$2,524</td>
<td>$2,660</td>
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<td>0.9%</td>
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<tr>
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<td>$3,493</td>
<td>$3,585</td>
<td>$3,958</td>
<td>$4,303</td>
<td>$4,746</td>
<td>$5,274</td>
<td>$5,897</td>
<td>1.9%</td>
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<tr>
<td>Nonmanufacturing</td>
<td>$2,394</td>
<td>$2,511</td>
<td>$2,654</td>
<td>$2,876</td>
<td>$3,147</td>
<td>$3,473</td>
<td>$3,846</td>
<td>1.7%</td>
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<tr>
<td>Services</td>
<td>$28,881</td>
<td>$29,553</td>
<td>$31,648</td>
<td>$33,829</td>
<td>$36,519</td>
<td>$39,677</td>
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<tr>
<td><strong>Total</strong></td>
<td>$37,155</td>
<td>$37,963</td>
<td>$40,697</td>
<td>$43,532</td>
<td>$47,073</td>
<td>$51,273</td>
<td>$56,145</td>
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<tr>
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<td>$263</td>
<td>$296</td>
<td>$321</td>
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<td>$354</td>
<td>$399</td>
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<td>$462</td>
<td>$491</td>
<td>$520</td>
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<tr>
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<td>$498</td>
<td>$497</td>
<td>$531</td>
<td>$562</td>
<td>$591</td>
<td>$617</td>
<td>$641</td>
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<tr>
<td>Services</td>
<td>$1,724</td>
<td>$1,814</td>
<td>$2,009</td>
<td>$2,143</td>
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<td>$2,432</td>
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<tr>
<td><strong>Total</strong></td>
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<td>$2,927</td>
<td>$3,235</td>
<td>$3,458</td>
<td>$3,685</td>
<td>$3,913</td>
<td>$4,147</td>
<td>1.4%</td>
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<td><strong>Mexico</strong></td>
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<tr>
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<td>$542</td>
<td>$576</td>
<td>$593</td>
<td>$611</td>
<td>$636</td>
<td>$671</td>
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<tr>
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<td>$1,068</td>
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<td>$1,225</td>
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<td>$481</td>
<td>$504</td>
<td>$518</td>
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<td>$2,292</td>
<td>$2,386</td>
<td>$2,467</td>
<td>$2,537</td>
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<td><strong>Total</strong></td>
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<td>$4,339</td>
<td>$4,508</td>
<td>$4,678</td>
<td>$4,857</td>
<td>$5,056</td>
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<td><strong>Brazil</strong></td>
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<td>$940</td>
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<tr>
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<td>$738</td>
<td>$774</td>
<td>$796</td>
<td>$814</td>
<td>$837</td>
<td>$857</td>
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<tr>
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<td>$3,510</td>
<td>$3,696</td>
<td>$3,781</td>
<td>$3,815</td>
<td>$3,827</td>
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<tr>
<td><strong>Total</strong></td>
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<td>$5,789</td>
<td>$6,105</td>
<td>$6,255</td>
<td>$6,332</td>
<td>$6,392</td>
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<tr>
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<td>$937</td>
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<td>$1,154</td>
<td>$1,228</td>
<td>$1,304</td>
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<td>$913</td>
<td>$995</td>
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<td>$1,329</td>
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<tr>
<td>Energy-intensive manufacturing</td>
<td>$6,107</td>
<td>$6,197</td>
<td>$6,154</td>
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<td>$6,364</td>
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<td>$6,801</td>
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<td>$37,294</td>
<td>$39,028</td>
<td>$40,442</td>
<td>$42,018</td>
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<td><strong>Total</strong></td>
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<td>$66,020</td>
<td>$68,308</td>
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<tr>
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<td>$4,980</td>
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<td>$37,229</td>
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<td>$55,519</td>
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<tr>
<td><strong>Russia</strong></td>
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<td>Non-energy-intensive manufacturing</td>
<td>Nonmanufacturing</td>
<td>Services</td>
<td>Total</td>
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<tr>
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<td>$1,186</td>
<td>$1,159</td>
<td>$1,130</td>
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<td>$3,782</td>
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<td>$6,782</td>
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<td>$6,574</td>
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### Eastern Europe and Eurasia

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<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
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</thead>
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<tr>
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<td>$230</td>
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<td>$290</td>
<td>$328</td>
<td>$373</td>
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<td>$96</td>
<td>$117</td>
<td>$132</td>
<td>$144</td>
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<td>$2,423</td>
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### Asia Pacific

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<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
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<td>$31,458</td>
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### Japan

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<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
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<td>$903</td>
<td>$850</td>
<td>$810</td>
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<td>$10,623</td>
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### South Korea

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<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
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### Australia and New Zealand

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<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
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<td>$194</td>
<td>$200</td>
<td>$206</td>
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<td>$135</td>
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<td>$144</td>
<td>$148</td>
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### China

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<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
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### India

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<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonmanufacturing</td>
<td>$3,724</td>
<td>$4,238</td>
<td>$5,652</td>
<td>$7,253</td>
<td>$8,831</td>
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<td>$3,007</td>
<td>$3,344</td>
<td>$4,418</td>
<td>$5,590</td>
<td>$6,742</td>
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<tr>
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<td>$6,764</td>
<td>$6,942</td>
<td>$9,160</td>
<td>$12,793</td>
<td>$15,384</td>
</tr>
</tbody>
</table>

### Other Asia Pacific

<table>
<thead>
<tr>
<th>Region</th>
<th>Energy-intensive manufacturing</th>
<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonmanufacturing</td>
<td>$4,475</td>
<td>$4,981</td>
<td>$5,834</td>
<td>$6,752</td>
<td>$7,736</td>
</tr>
<tr>
<td>Services</td>
<td>$8,764</td>
<td>$9,488</td>
<td>$11,084</td>
<td>$12,469</td>
<td>$13,751</td>
</tr>
<tr>
<td>Total</td>
<td>$15,207</td>
<td>$15,469</td>
<td>$17,340</td>
<td>$19,219</td>
<td>$21,597</td>
</tr>
</tbody>
</table>

### Africa and Middle East

<table>
<thead>
<tr>
<th>Region</th>
<th>Energy-intensive manufacturing</th>
<th>Non-energy-intensive manufacturing</th>
<th>Nonmanufacturing</th>
<th>Services</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonmanufacturing</td>
<td>$12,156</td>
<td>$13,104</td>
<td>$14,764</td>
<td>$16,320</td>
<td>$17,659</td>
</tr>
<tr>
<td>Services</td>
<td>$1,958</td>
<td>$998</td>
<td>$3,748</td>
<td>$6,551</td>
<td>$3,422</td>
</tr>
<tr>
<td>Total</td>
<td>$22,392</td>
<td>$24,050</td>
<td>$26,653</td>
<td>$29,161</td>
<td>$31,409</td>
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</table>

### Africa
<table>
<thead>
<tr>
<th>Category</th>
<th>Middle East</th>
<th>World</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy-intensive manufacturing</td>
<td>$1,364</td>
<td>$35,158</td>
</tr>
<tr>
<td>Non-energy-intensive manufacturing</td>
<td>$885</td>
<td>$59,259</td>
</tr>
<tr>
<td>Nonmanufacturing</td>
<td>$3,003</td>
<td>$41,308</td>
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<tr>
<td>Services</td>
<td>$6,408</td>
<td>$147,487</td>
</tr>
<tr>
<td>Total</td>
<td>$11,660</td>
<td>$283,213</td>
</tr>
</tbody>
</table>


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; services includes all other non-industrial output.