Table L2. Transportation sector passenger transport energy consumption by region and mode, Low Zero-carbon Technology Cost case

quadrillion British thermal units

Region and mode	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas								
Light-duty vehicles	19.3	18.9	17.9	17.0	16.5	16.6	17.1	-0.4%
Air	3.7	4.1	4.3	4.6	4.9	5.3	5.7	1.5%
Buses	1.0	1.2	1.2	1.3	1.3	1.3	1.4	1.0%
Two- and three-wheeled vehicles	0.3	0.4	0.5	0.6	0.7	0.8	0.9	4.2%
Rail	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2%
Total	**24.4**	**24.6**	**24.0**	**23.5**	**23.5**	**24.1**	**25.1**	**0.1%**
Europe and Eurasia								
Light-duty vehicles	8.9	8.2	6.9	6.0	5.4	5.1	5.0	-2.1%
Air	2.5	3.2	3.4	3.7	3.9	4.1	4.3	1.9%
Buses	1.3	1.3	1.3	1.3	1.2	1.2	1.1	-0.6%
Two- and three-wheeled vehicles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4%
Rail	0.2	0.2	0.1	0.1	0.1	0.1	0.1	-1.2%
Total	**13.0**	**12.9**	**11.9**	**11.2**	**10.8**	**10.6**	**10.6**	**-0.7%**
Asia Pacific								
Light-duty vehicles	12.7	13.5	14.4	15.1	15.8	16.8	17.9	1.2%
Air	2.2	3.9	4.8	5.6	6.4	7.1	7.9	4.6%
Buses	2.5	2.5	2.6	2.7	2.7	2.7	2.7	0.3%
Two- and three-wheeled vehicles	2.1	2.4	2.7	3.0	3.3	3.5	3.7	2.0%
Rail	0.3	0.3	0.3	0.3	0.2	0.2	0.2	-0.5%
Total	**19.8**	**22.6**	**24.8**	**26.6**	**28.3**	**30.3**	**32.4**	**1.8%**
Africa and Middle East								
Light-duty vehicles	4.5	4.5	4.6	4.8	4.9	5.2	5.6	0.8%
Air	1.0	1.3	1.5	1.8	2.0	2.3	2.6	3.6%
Buses	1.8	2.1	2.5	2.9	3.5	4.1	4.8	3.5%
Two- and three-wheeled vehicles	0.1	0.1	0.1	0.2	0.3	0.3	0.5	5.9%
Rail	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3%
Total	**7.4**	**8.0**	**8.8**	**9.7**	**10.7**	**12.0**	**13.4**	**2.2%**
World								
Light-duty vehicles	45.4	45.2	43.8	42.8	42.7	43.7	45.5	0.0%
Air	9.4	12.5	14.1	15.6	17.2	18.8	20.4	2.8%
Buses	6.6	7.1	7.6	8.2	8.7	9.3	9.9	1.4%
Two- and three-wheeled vehicles	2.6	3.0	3.4	3.9	4.4	4.8	5.2	2.5%
Rail	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-0.3%
Total	**64.5**	**68.2**	**69.4**	**71.0**	**73.4**	**77.0**	**81.5**	**0.8%**

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lz_230821.151531 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding.