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Junyoung Lee
Samsung Electronics
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12/04/2023

Product Carbon Footprint and Reduction Certification Letter

CERT-13455

Dear Junyoung Lee,

Carbon Trust Assurance Limited (**'The Company'**) certifies that:

Samsung Electronics (**'You'**) has submitted for certification purposes and achieved a reduction in the calculated 219 Listed Carbon Footprints of the following 6 Listed Stock Keeping Units (SKUs) (across 73 geographies) and 3 Listed Products sold Cradle-to-Grave (Business-to-Consumer) and marketed in the Listed Geographical Areas, in accordance with:

- PAS 2050:2011 – Specification for the assessment of the life cycle greenhouse gas emissions of goods and services
- Product Carbon Footprints: Requirements for Certification v2.

Listed Products, SKUs and Carbon Footprints

Cradle-to-Grave Carbon Footprint Certification Results

The Company certifies the product carbon footprint results set out in the table below. This is the first time that these Product Carbon Footprint Results have been certified by the Company.

Product	Stock Keeping Unit	Geographic Area		Net KgCO ₂ e not rounded	Net KgCO ₂ e rounded	Functional Unit
		Production	Use			
NEO QLED 4K TV (75QN85B)	**75QN85B**** / **75QNB85****	Hungary	Greece	2041.77	2,000	7-year-long usage of 1 unit of TV
		Hungary	Netherlands	1883.42	1,900	
		Hungary	Norway	1,503.49	1,500	
		Hungary	Germany	1,898.25	1,900	
		Hungary	Latvia	1,778.89	1,800	
		Hungary	Romania	1,874.26	1,900	
		Hungary	Lithuania	1,730.00	1,700	
		Hungary	Belgium	1,723.30	1,700	
		Hungary	Sweden	1,506.64	1,500	
		Hungary	Switzerland	1,582.32	1,600	
		Hungary	Spain	1,722.26	1,700	
		Hungary	Slovakia	1,792.16	1,800	
		Hungary	Poland	2,307.35	2,400	
		Hungary	UK	1,774.20	1,800	
		Hungary	Portugal	1,769.41	1,800	
		Hungary	Italy	1,825.63	1,800	
		Hungary	Turkey	2,135.73	2,200	
		Hungary	Hungary	1,759.96	1,800	
		Hungary	France	1,566.57	1,600	
		Hungary	Austria	1,710.54	1,700	
		Hungary	Croatia	1,717.03	1,700	
		Hungary	Czech Republic	2,047.79	2,000	
		Hungary	Denmark	1,608.08	1,600	
		Hungary	Estonia	1,864.22	1,900	
		Hungary	Finland	1,586.67	1,600	
		Hungary	Slovenia	1,758.38	1,800	
		Russia	Russia	1,998.26	2,000	
		Russia	Moldova	2,049.36	2,000	
		Russia	Kazakhstan	2,326.47	2,400	
		Russia	Belarus	1,997.12	2,000	
		Russia	Ukraine	1,978.67	2,000	
		Russia	Uzbekistan	2,227.77	2,200	
		Mexico	USA	2,012.62	2,000	
		Mexico	Canada	1,693.90	1,700	
		Mexico	Mexico	2,098.41	2,000	
		Mexico	Panama	1,965.25	2,000	
		Mexico	Argentina	1,893.87	1,900	
		Mexico	Chile	2,058.87	2,000	

		Mexico	Brazil	1,620.95	1,600	
		Mexico	Colombia	1,805.72	1,800	
		Mexico	Uruguay	1,534.56	1,500	
		Vietnam	Vietnam	2,390.15	2,400	
		Vietnam	Australia	2,426.66	2,400	
		Vietnam	New Zealand	1,660.32	1,700	
		Vietnam	Malaysia	2,409.04	2,400	
		Vietnam	Singapore	1,992.57	2,000	
		Vietnam	India	2,564.57	2,600	
		Vietnam	South Korea	2,118.76	2,200	
		Vietnam	Hong Kong	2,360.36	2,400	
		Vietnam	Thailand	2,149.32	2,200	
		Vietnam	Bangladesh	2,280.89	2,200	
		Vietnam	Indonesia	2,602.43	2,600	
		Vietnam	Myanmar	2,127.10	2,200	
		Vietnam	Philippines	2,524.26	2,600	
		Vietnam	Sri Lanka	2,369.59	2,400	
		Vietnam	Taiwan	2,231.96	2,200	
		Egypt	Egypt	2,075.16	2,000	
		Egypt	Pakistan	2,095.52	2,000	
		Egypt	Algeria	2,206.65	2,200	
		Egypt	Cameroon	1,926.21	1,900	
		Egypt	Ghana	1,936.17	1,900	
		Egypt	Iran	2,203.42	2,200	
		Egypt	Iraq	2,869.17	2,800	
		Egypt	Israel	2,117.03	2,200	
		Egypt	Jordan	2,051.54	2,000	
		Egypt	Kenya	1,574.48	1,600	
		Egypt	Morocco	2,595.60	2,600	
		Egypt	Nigeria	2,120.20	2,200	
		Egypt	Saudi Arabia	2,367.32	2,400	
		Egypt	South Africa	2,855.49	2,800	
		Egypt	Sudan	1,992.04	2,000	
		Egypt	Tanzania	1,985.54	2,000	
		Egypt	UAE	2,218.06	2,200	
NEO QLED 4K TV (75QN85C)	**75QN85C**** / **75QNC85****	Hungary	Greece	1,904.95	1,900	7-year-long usage of 1 unit of TV
		Hungary	Netherlands	1,785.41	1,800	
		Hungary	Norway	1,500.92	1,500	
		Hungary	Germany	1,795.03	1,800	
		Hungary	Latvia	1,706.86	1,700	
		Hungary	Romania	1,774.47	1,800	

		Hungary	Lithuania	1,668.98	1,700	
		Hungary	Belgium	1,665.12	1,700	
		Hungary	Sweden	1,502.58	1,500	
		Hungary	Switzerland	1,557.44	1,600	
		Hungary	Spain	1,667.84	1,700	
		Hungary	Slovakia	1,713.02	1,700	
		Hungary	Poland	2,102.75	2,200	
		Hungary	UK	1,704.70	1,700	
		Hungary	Portugal	1,704.82	1,700	
		Hungary	Italy	1,740.76	1,700	
		Hungary	Turkey	1,977.73	2,000	
		Hungary	Hungary	1,688.35	1,700	
		Hungary	France	1,547.13	1,500	
		Hungary	Austria	1,651.83	1,700	
		Hungary	Croatia	1,657.60	1,700	
		Hungary	Czech Republic	1,906.68	1,900	
		Hungary	Denmark	1,577.95	1,600	
		Hungary	Estonia	1,771.62	1,800	
		Hungary	Finland	1,563.00	1,600	
		Hungary	Slovenia	1,688.56	1,700	
		Russia	Russia	1,868.43	1,900	
		Russia	Moldova	1,910.07	1,900	
		Russia	Kazakhstan	2,124.21	2,200	
		Russia	Belarus	1,868.91	1,900	
		Russia	Ukraine	1,856.14	1,900	
		Russia	Uzbekistan	2,050.66	2,000	
		Mexico	USA	1,890.99	1,900	
		Mexico	Canada	1,651.10	1,700	
		Mexico	Mexico	1,951.79	2,000	
		Mexico	Panama	1,843.81	1,800	
		Mexico	Argentina	1,790.94	1,800	
		Mexico	Chile	1,914.79	1,900	
		Mexico	Brazil	1,585.04	1,600	
		Mexico	Colombia	1,723.68	1,700	
		Mexico	Uruguay	1,520.17	1,500	
		Vietnam	Vietnam	2,167.83	2,200	
		Vietnam	Australia	2,191.94	2,200	
		Vietnam	New Zealand	1,614.61	1,600	
		Vietnam	Malaysia	2,177.98	2,200	
		Vietnam	Singapore	1,864.10	1,900	
		Vietnam	India	2,295.46	2,200	

		Vietnam	South Korea	1,959.47	2,000	
		Vietnam	Hong Kong	2,141.31	2,200	
		Vietnam	Thailand	1,982.21	2,000	
		Vietnam	Bangladesh	2,081.67	2,000	
		Vietnam	Indonesia	2,323.75	2,400	
		Vietnam	Myanmar	1,965.70	2,000	
		Vietnam	Philippines	2,264.82	2,200	
		Vietnam	Sri Lanka	2,148.52	2,200	
		Vietnam	Taiwan	2,044.62	2,000	
		Egypt	Egypt	1,926.26	1,900	
		Egypt	Pakistan	1,941.98	1,900	
		Egypt	Algeria	2,025.48	2,000	
		Egypt	Cameroon	1,814.93	1,800	
		Egypt	Ghana	1,822.32	1,800	
		Egypt	Iran	2,023.27	2,000	
		Egypt	Iraq	2,525.05	2,600	
		Egypt	Israel	1,957.68	2,000	
		Egypt	Jordan	1,908.32	1,900	
		Egypt	Kenya	1,549.37	1,500	
		Egypt	Morocco	2,318.70	2,400	
		Egypt	Nigeria	1,961.04	2,000	
		Egypt	Saudi Arabia	2,146.36	2,200	
		Egypt	South Africa	2,515.00	2,600	
		Egypt	Sudan	1,863.57	1,900	
		Egypt	Tanzania	1,859.15	1,900	
		Egypt	UAE	2,034.32	2,000	
NEO QLED 4K TV (75QN90B)	**75QN90B**** / **75QNB90****	Hungary	Greece	2,166.89	2,200	7-year-long usage of 1 unit of TV
		Hungary	Netherlands	1,975.61	2,000	
		Hungary	Norway	1,515.71	1,500	
		Hungary	Germany	1,994.17	2,000	
		Hungary	Latvia	1,849.20	1,800	
		Hungary	Romania	1,966.19	2,000	
		Hungary	Lithuania	1,790.53	1,800	
		Hungary	Belgium	1,781.95	1,800	
		Hungary	Sweden	1,519.82	1,500	
		Hungary	Switzerland	1,612.16	1,600	
		Hungary	Spain	1,779.25	1,800	
		Hungary	Slovakia	1,866.79	1,900	
		Hungary	Poland	2,488.80	2,400	
		Hungary	UK	1,842.96	1,800	
		Hungary	Portugal	1,835.64	1,800	

		Hungary	Italy	1,906.22	1,900	
		Hungary	Turkey	2,279.63	2,200	
		Hungary	Hungary	1,828.05	1,800	
		Hungary	France	1,592.48	1,600	
		Hungary	Austria	1,768.02	1,800	
		Hungary	Croatia	1,775.52	1,800	
		Hungary	Czech Republic	2,175.31	2,200	
		Hungary	Denmark	1,642.84	1,600	
		Hungary	Estonia	1,952.13	2,000	
		Hungary	Finland	1,616.47	1,600	
		Hungary	Slovenia	1,825.58	1,800	
		Russia	Russia	2,115.71	2,200	
		Russia	Moldova	2,176.20	2,200	
		Russia	Kazakhstan	2,508.91	2,600	
		Russia	Belarus	2,113.79	2,200	
		Russia	Ukraine	2,091.03	2,000	
		Russia	Uzbekistan	2,389.30	2,400	
		Mexico	USA	2,128.30	2,200	
		Mexico	Canada	1,743.00	1,700	
		Mexico	Mexico	2,233.55	2,200	
		Mexico	Panama	2,075.74	2,000	
		Mexico	Argentina	1,989.09	2,000	
		Mexico	Chile	2,188.70	2,200	
		Mexico	Brazil	1,659.36	1,700	
		Mexico	Colombia	1,882.91	1,900	
		Mexico	Uruguay	1,554.87	1,600	
		Vietnam	Vietnam	2,587.63	2,600	
		Vietnam	Australia	2,633.14	2,600	
		Vietnam	New Zealand	1,706.92	1,700	
		Vietnam	Malaysia	2,612.12	2,600	
		Vietnam	Singapore	2,108.82	2,200	
		Vietnam	India	2,799.98	2,800	
		Vietnam	South Korea	2,261.21	2,200	
		Vietnam	Hong Kong	2,553.29	2,600	
		Vietnam	Thailand	2,298.26	2,200	
		Vietnam	Bangladesh	2,457.15	2,400	
		Vietnam	Indonesia	2,845.83	2,800	
		Vietnam	Myanmar	2,271.32	2,200	
		Vietnam	Philippines	2,751.36	2,800	
		Vietnam	Sri Lanka	2,564.33	2,600	
		Vietnam	Taiwan	2,398.08	2,400	

		Egypt	Egypt	2,208.73	2,200	
		Egypt	Pakistan	2,233.19	2,200	
		Egypt	Algeria	2,367.59	2,400	
		Egypt	Cameroon	2,028.35	2,000	
		Egypt	Ghana	2,040.43	2,000	
		Egypt	Iran	2,363.58	2,400	
		Egypt	Iraq	3,168.13	3,200	
		Egypt	Israel	2,259.39	2,200	
		Egypt	Jordan	2,180.24	2,200	
		Egypt	Kenya	1,603.48	1,600	
		Egypt	Morocco	2,837.59	2,800	
		Egypt	Nigeria	2,262.82	2,200	
		Egypt	Saudi Arabia	2,561.84	2,600	
		Egypt	South Africa	3,151.50	3,200	
		Egypt	Sudan	2,108.30	2,200	
		Egypt	Tanzania	2,100.25	2,200	
		Egypt	UAE	2,381.28	2,400	
NEO QLED 4K TV (75QN90C)	**75QN90C**** / **75QNC90****	Hungary	Greece	2,114.27	2,200	7-year-long usage of 1 unit of TV
		Hungary	Netherlands	1,937.91	1,900	
		Hungary	Norway	1,514.72	1,500	
		Hungary	Germany	1,954.47	2,000	
		Hungary	Latvia	1,821.49	1,800	
		Hungary	Romania	1,927.81	1,900	
		Hungary	Lithuania	1,767.06	1,800	
		Hungary	Belgium	1,759.57	1,800	
		Hungary	Sweden	1,518.25	1,500	
		Hungary	Switzerland	1,602.59	1,600	
		Hungary	Spain	1,758.32	1,800	
		Hungary	Slovakia	1,836.36	1,800	
		Hungary	Poland	2,410.11	2,400	
		Hungary	UK	1,816.23	1,800	
		Hungary	Portugal	1,810.80	1,800	
		Hungary	Italy	1,873.58	1,900	
		Hungary	Turkey	2,218.86	2,200	
		Hungary	Hungary	1,800.50	1,800	
		Hungary	France	1,585.01	1,600	
		Hungary	Austria	1,745.44	1,700	
		Hungary	Croatia	1,752.66	1,800	
		Hungary	Czech Republic	2,121.04	2,200	
		Hungary	Denmark	1,631.25	1,600	
		Hungary	Estonia	1,916.51	1,900	

		Hungary	Finland	1,607.37	1,600	
		Hungary	Slovenia	1,798.72	1,800	
		Russia	Russia	2,065.78	2,000	
		Russia	Moldova	2,122.62	2,200	
		Russia	Kazakhstan	2,431.11	2,400	
		Russia	Belarus	2,064.48	2,000	
		Russia	Ukraine	2,043.90	2,000	
		Russia	Uzbekistan	2,321.18	2,400	
		Mexico	USA	2,081.51	2,000	
		Mexico	Canada	1,726.54	1,700	
		Mexico	Mexico	2,177.16	2,200	
		Mexico	Panama	2,029.03	2,000	
		Mexico	Argentina	1,949.51	1,900	
		Mexico	Chile	2,133.29	2,200	
		Mexico	Brazil	1,645.55	1,600	
		Mexico	Colombia	1,851.35	1,900	
		Mexico	Uruguay	1,549.33	1,500	
		Vietnam	Vietnam	2,502.12	2,600	
		Vietnam	Australia	2,542.86	2,600	
		Vietnam	New Zealand	1,689.35	1,700	
		Vietnam	Malaysia	2,523.25	2,600	
		Vietnam	Singapore	2,059.41	2,000	
		Vietnam	India	2,696.47	2,600	
		Vietnam	South Korea	2,199.94	2,200	
		Vietnam	Hong Kong	2,469.03	2,400	
		Vietnam	Thailand	2,233.99	2,200	
		Vietnam	Bangladesh	2,380.52	2,400	
		Vietnam	Indonesia	2,738.64	2,800	
		Vietnam	Myanmar	2,209.24	2,200	
		Vietnam	Philippines	2,651.58	2,600	
		Vietnam	Sri Lanka	2,479.30	2,400	
		Vietnam	Taiwan	2,326.03	2,400	
		Egypt	Egypt	2,151.46	2,200	
		Egypt	Pakistan	2,174.13	2,200	
		Egypt	Algeria	2,297.91	2,200	
		Egypt	Cameroon	1,985.55	2,000	
		Egypt	Ghana	1,996.64	2,000	
		Egypt	Iran	2,294.30	2,200	
		Egypt	Iraq	3,035.77	3,000	
		Egypt	Israel	2,198.10	2,200	
		Egypt	Jordan	2,125.15	2,200	

		Egypt	Kenya	1,593.82	1,600	
		Egypt	Morocco	2,731.09	2,800	
		Egypt	Nigeria	2,201.61	2,200	
		Egypt	Saudi Arabia	2,476.86	2,400	
		Egypt	South Africa	3,020.54	3,000	
		Egypt	Sudan	2,058.89	2,000	
		Egypt	Tanzania	2,051.64	2,000	
		Egypt	UAE	2,310.61	2,400	
NEO QLED 4K TV (75QN95B)	**75QN95B**** / **75QNB95****	Hungary	Greece	2,223.34	2,200	7-year-long usage of 1 unit of TV
		Hungary	Netherlands	2,030.55	2,000	
		Hungary	Norway	1,567.16	1,600	
		Hungary	Germany	2,049.15	2,000	
		Hungary	Latvia	1,903.16	1,900	
		Hungary	Romania	2,020.80	2,000	
		Hungary	Lithuania	1,843.96	1,800	
		Hungary	Belgium	1,835.39	1,800	
		Hungary	Sweden	1,571.25	1,600	
		Hungary	Switzerland	1,664.18	1,700	
		Hungary	Spain	1,832.90	1,800	
		Hungary	Slovakia	1,920.65	1,900	
		Hungary	Poland	2,547.63	2,600	
		Hungary	UK	1,896.96	1,900	
		Hungary	Portugal	1,889.82	1,900	
		Hungary	Italy	1,960.55	2,000	
		Hungary	Turkey	2,337.09	2,400	
		Hungary	Hungary	1,881.57	1,900	
		Hungary	France	1,644.45	1,600	
		Hungary	Austria	1,821.12	1,800	
		Hungary	Croatia	1,828.73	1,800	
		Hungary	Czech Republic	2,231.65	2,200	
		Hungary	Denmark	1,695.17	1,700	
		Hungary	Estonia	2,006.92	2,000	
		Hungary	Finland	1,668.67	1,700	
		Hungary	Slovenia	1,879.17	1,900	
		Russia	Russia	2,171.55	2,200	
		Russia	Moldova	2,232.71	2,200	
		Russia	Kazakhstan	2,568.37	2,600	
		Russia	Belarus	2,169.70	2,200	
		Russia	Ukraine	2,146.83	2,200	
		Russia	Uzbekistan	2,447.87	2,400	
		Mexico	USA	2,184.97	2,200	

		Mexico	Canada	1,796.67	1,800	
		Mexico	Mexico	2,290.80	2,200	
		Mexico	Panama	2,131.26	2,200	
		Mexico	Argentina	2,044.00	2,000	
		Mexico	Chile	2,245.14	2,200	
		Mexico	Brazil	1,711.66	1,700	
		Mexico	Colombia	1,936.92	1,900	
		Mexico	Uruguay	1,606.37	1,600	
		Vietnam	Vietnam	2,647.32	2,600	
		Vietnam	Australia	2,692.98	2,600	
		Vietnam	New Zealand	1,759.50	1,800	
		Vietnam	Malaysia	2,671.75	2,600	
		Vietnam	Singapore	2,164.50	2,200	
		Vietnam	India	2,861.09	2,800	
		Vietnam	South Korea	2,318.10	2,400	
		Vietnam	Hong Kong	2,612.45	2,600	
		Vietnam	Thailand	2,355.42	2,400	
		Vietnam	Bangladesh	2,515.57	2,600	
		Vietnam	Indonesia	2,907.29	3,000	
		Vietnam	Myanmar	2,328.29	2,400	
		Vietnam	Philippines	2,812.08	2,800	
		Vietnam	Sri Lanka	2,623.60	2,600	
		Vietnam	Taiwan	2,456.04	2,400	
		Egypt	Egypt	2,265.30	2,200	
		Egypt	Pakistan	2,289.98	2,200	
		Egypt	Algeria	2,425.42	2,400	
		Egypt	Cameroon	2,083.56	2,000	
		Egypt	Ghana	2,095.74	2,000	
		Egypt	Iran	2,421.40	2,400	
		Egypt	Iraq	3,232.26	3,200	
		Egypt	Israel	2,316.36	2,400	
		Egypt	Jordan	2,236.58	2,200	
		Egypt	Kenya	1,655.34	1,700	
		Egypt	Morocco	2,899.12	2,800	
		Egypt	Nigeria	2,319.87	2,400	
		Egypt	Saudi Arabia	2,621.19	2,600	
		Egypt	South Africa	3,215.51	3,200	
		Egypt	Sudan	2,164.09	2,200	
		Egypt	Tanzania	2,156.00	2,200	
		Egypt	UAE	2,439.24	2,400	
		Hungary	Greece	2,141.95	2,200	

NEO QLED 4K TV (75QN95C)	**75QN95C**** / **75QNC95****	Hungary	Netherlands	1,961.16	2,000	7-year-long usage of 1 unit of TV
		Hungary	Norway	1,526.58	1,500	
		Hungary	Germany	1,978.64	2,000	
		Hungary	Latvia	1,841.70	1,800	
		Hungary	Romania	1,952.10	2,000	
		Hungary	Lithuania	1,786.21	1,800	
		Hungary	Belgium	1,778.14	1,800	
		Hungary	Sweden	1,530.43	1,500	
		Hungary	Switzerland	1,617.62	1,600	
		Hungary	Spain	1,775.73	1,800	
		Hungary	Slovakia	1,858.18	1,900	
		Hungary	Poland	2,446.10	2,400	
		Hungary	UK	1,835.85	1,800	
		Hungary	Portugal	1,829.08	1,800	
		Hungary	Italy	1,895.54	1,900	
		Hungary	Turkey	2,248.57	2,200	
		Hungary	Hungary	1,821.54	1,800	
		Hungary	France	1,599.09	1,600	
		Hungary	Austria	1,764.84	1,800	
		Hungary	Croatia	1,771.96	1,800	
		Hungary	Czech Republic	2,149.80	2,200	
		Hungary	Denmark	1,646.66	1,600	
		Hungary	Estonia	1,938.99	1,900	
		Hungary	Finland	1,621.79	1,600	
		Hungary	Slovenia	1,819.26	1,800	
		Russia	Russia	2,093.51	2,000	
		Russia	Moldova	2,150.79	2,200	
		Russia	Kazakhstan	2,465.44	2,400	
		Russia	Belarus	2,091.74	2,000	
		Russia	Ukraine	2,070.27	2,000	
		Russia	Uzbekistan	2,352.43	2,400	
		Mexico	USA	2,105.85	2,200	
		Mexico	Canada	1,741.71	1,700	
		Mexico	Mexico	2,205.17	2,200	
		Mexico	Panama	2,055.73	2,000	
		Mexico	Argentina	1,973.88	2,000	
		Mexico	Chile	2,162.51	2,200	
		Mexico	Brazil	1,662.24	1,700	
		Mexico	Colombia	1,873.49	1,900	
		Mexico	Uruguay	1,563.49	1,600	
		Vietnam	Vietnam	2,539.60	2,600	

		Vietnam	Australia	2,582.49	2,600
		Vietnam	New Zealand	1,707.13	1,700
		Vietnam	Malaysia	2,562.60	2,600
		Vietnam	Singapore	2,086.93	2,000
		Vietnam	India	2,740.15	2,800
		Vietnam	South Korea	2,230.96	2,200
		Vietnam	Hong Kong	2,506.99	2,600
		Vietnam	Thailand	2,265.97	2,200
		Vietnam	Bangladesh	2,416.14	2,400
		Vietnam	Indonesia	2,783.47	2,800
		Vietnam	Myanmar	2,240.51	2,200
		Vietnam	Philippines	2,694.20	2,600
		Vietnam	Sri Lanka	2,517.44	2,600
		Vietnam	Taiwan	2,360.31	2,400
		Egypt	Egypt	2,181.43	2,200
		Egypt	Pakistan	2,204.56	2,200
		Egypt	Algeria	2,331.57	2,400
		Egypt	Cameroon	2,010.98	2,000
		Egypt	Ghana	2,022.40	2,000
		Egypt	Iran	2,327.80	2,400
		Egypt	Iraq	3,088.17	3,000
		Egypt	Israel	2,229.31	2,200
		Egypt	Jordan	2,154.50	2,200
		Egypt	Kenya	1,609.43	1,600
		Egypt	Morocco	2,775.78	2,800
		Egypt	Nigeria	2,232.58	2,200
		Egypt	Saudi Arabia	2,515.16	2,600
		Egypt	South Africa	3,072.46	3,000
		Egypt	Sudan	2,086.51	2,000
		Egypt	Tanzania	2,078.92	2,000
		Egypt	UAE	2,344.52	2,400

Cradle-to-Grave Reduction Assessment Results

In accordance with the Product Carbon Footprints: Requirements for Certification v2, Samsung Electronics certified the product carbon footprint reductions set out in the table below. The reduction results have been obtained by comparing the certified unrounded footprints for the current generation against the certified unrounded footprints for the previous generation for equivalent listed SKUs.

Product	Geographic Area		Net KgCO ₂ e per Functional Unit (not rounded)		Reduction (%)
	Production	Use	SKU: **75QN85B**** / **75QNB85****	SKU: **75QN85C**** / **75QNC85****	
NEO QLED 4K TV (75QN85B/C)	Hungary	Greece	2,041.77	1,904.95	6.7%
	Hungary	Netherlands	1,883.42	1,785.41	5.2%
	Hungary	Norway	1,503.49	1,500.92	0.2%
	Hungary	Germany	1,898.25	1,795.03	5.4%
	Hungary	Latvia	1,778.89	1,706.86	4.0%
	Hungary	Romania	1,874.26	1,774.47	5.3%
	Hungary	Lithuania	1,730.00	1,668.98	3.5%
	Hungary	Belgium	1,723.30	1,665.12	3.4%
	Hungary	Sweden	1,506.64	1,502.58	0.3%
	Hungary	Switzerland	1,582.32	1,557.44	1.6%
	Hungary	Spain	1,722.26	1,667.84	3.2%
	Hungary	Slovakia	1,792.16	1,713.02	4.4%
	Hungary	Poland	2,307.35	2,102.75	8.9%
	Hungary	UK	1,774.20	1,704.70	3.9%
	Hungary	Portugal	1,769.41	1,704.82	3.6%
	Hungary	Italy	1,825.63	1,740.76	4.6%
	Hungary	Turkey	2,135.73	1,977.73	7.4%
	Hungary	Hungary	1,759.96	1,688.35	4.1%
	Hungary	France	1,566.57	1,547.13	1.2%
	Hungary	Austria	1,710.54	1,651.83	3.4%
	Hungary	Croatia	1,717.03	1,657.60	3.5%
	Hungary	Czech Republic	2,047.79	1,906.68	6.9%
	Hungary	Denmark	1,608.08	1,577.95	1.9%
	Hungary	Estonia	1,864.22	1,771.62	5.0%
	Hungary	Finland	1,586.67	1,563.00	1.5%
	Hungary	Slovenia	1,758.38	1,688.56	4.0%
	Russia	Russia	1,998.26	1,868.43	6.5%
	Russia	Moldova	2,049.36	1,910.07	6.8%
	Russia	Kazakhstan	2,326.47	2,124.21	8.7%
	Russia	Belarus	1,997.12	1,868.91	6.4%
	Russia	Ukraine	1,978.67	1,856.14	6.2%
	Russia	Uzbekistan	2,227.77	2,050.66	8.0%
	Mexico	USA	2,012.62	1,890.99	6.0%
	Mexico	Canada	1,693.90	1,651.10	2.5%
	Mexico	Mexico	2,098.41	1,951.79	7.0%
	Mexico	Panama	1,965.25	1,843.81	6.2%
	Mexico	Argentina	1,893.87	1,790.94	5.4%
	Mexico	Chile	2,058.87	1,914.79	7.0%
	Mexico	Brazil	1,620.95	1,585.04	2.2%
	Mexico	Colombia	1,805.72	1,723.68	4.5%
	Mexico	Uruguay	1,534.56	1,520.17	0.9%
	Vietnam	Vietnam	2,390.15	2,167.83	9.3%
	Vietnam	Australia	2,426.66	2,191.94	9.7%
	Vietnam	New Zealand	1,660.32	1,614.61	2.8%

	Vietnam	Malaysia	2,409.04	2,177.98	9.6%
	Vietnam	Singapore	1,992.57	1,864.10	6.4%
	Vietnam	India	2,564.57	2,295.46	10.5%
	Vietnam	South Korea	2,118.76	1,959.47	7.5%
	Vietnam	Hong Kong	2,360.36	2,141.31	9.3%
	Vietnam	Thailand	2,149.32	1,982.21	7.8%
	Vietnam	Bangladesh	2,280.89	2,081.67	8.7%
	Vietnam	Indonesia	2,602.43	2,323.75	10.7%
	Vietnam	Myanmar	2,127.10	1,965.70	7.6%
	Vietnam	Philippines	2,524.26	2,264.82	10.3%
	Vietnam	Sri Lanka	2,369.59	2,148.52	9.3%
	Vietnam	Taiwan	2,231.96	2,044.62	8.4%
	Egypt	Egypt	2,075.16	1,926.26	7.2%
	Egypt	Pakistan	2,095.52	1,941.98	7.3%
	Egypt	Algeria	2,206.65	2,025.48	8.2%
	Egypt	Cameroon	1,926.21	1,814.93	5.8%
	Egypt	Ghana	1,936.17	1,822.32	5.9%
	Egypt	Iran	2,203.42	2,023.27	8.2%
	Egypt	Iraq	2,869.17	2,525.05	12.0%
	Egypt	Israel	2,117.03	1,957.68	7.5%
	Egypt	Jordan	2,051.54	1,908.32	7.0%
	Egypt	Kenya	1,574.48	1,549.37	1.6%
	Egypt	Morocco	2,595.60	2,318.70	10.7%
	Egypt	Nigeria	2,120.20	1,961.04	7.5%
	Egypt	Saudi Arabia	2,367.32	2,146.36	9.3%
	Egypt	South Africa	2,855.49	2,515.00	11.9%
	Egypt	Sudan	1,992.04	1,863.57	6.4%
	Egypt	Tanzania	1,985.54	1,859.15	6.4%
	Egypt	UAE	2,218.06	2,034.32	8.3%

Product	Geographic Area		Net KgCO ₂ e per Functional Unit (not rounded)		Reduction (%)
	Production	Use	SKU: **75QN90B**** / **75QNB90****	SKU: **75QN90C***** / **75QNC90*****	
NEO QLED 4K TV (75QN90B/C)	Hungary	Greece	2,166.89	2,114.27	2.4%
	Hungary	Netherlands	1,975.61	1,937.91	1.9%
	Hungary	Norway	1,515.71	1,514.72	0.1%
	Hungary	Germany	1,994.17	1,954.47	2.0%
	Hungary	Latvia	1,849.20	1,821.49	1.5%
	Hungary	Romania	1,966.19	1,927.81	2.0%
	Hungary	Lithuania	1,790.53	1,767.06	1.3%
	Hungary	Belgium	1,781.95	1,759.57	1.3%
	Hungary	Sweden	1,519.82	1,518.25	0.1%
	Hungary	Switzerland	1,612.16	1,602.59	0.6%
	Hungary	Spain	1,779.25	1,758.32	1.2%
	Hungary	Slovakia	1,866.79	1,836.36	1.6%
	Hungary	Poland	2,488.80	2,410.11	3.2%

	Hungary	UK	1,842.96	1,816.23	1.5%
	Hungary	Portugal	1,835.64	1,810.80	1.4%
	Hungary	Italy	1,906.22	1,873.58	1.7%
	Hungary	Turkey	2,279.63	2,218.86	2.7%
	Hungary	Hungary	1,828.05	1,800.50	1.5%
	Hungary	France	1,592.48	1,585.01	0.5%
	Hungary	Austria	1,768.02	1,745.44	1.3%
	Hungary	Croatia	1,775.52	1,752.66	1.3%
	Hungary	Czech Republic	2,175.31	2,121.04	2.5%
	Hungary	Denmark	1,642.84	1,631.25	0.7%
	Hungary	Estonia	1,952.13	1,916.51	1.8%
	Hungary	Finland	1,616.47	1,607.37	0.6%
	Hungary	Slovenia	1,825.58	1,798.72	1.5%
	Russia	Russia	2,115.71	2,065.78	2.4%
	Russia	Moldova	2,176.20	2,122.62	2.5%
	Russia	Kazakhstan	2,508.91	2,431.11	3.1%
	Russia	Belarus	2,113.79	2,064.48	2.3%
	Russia	Ukraine	2,091.03	2,043.90	2.3%
	Russia	Uzbekistan	2,389.30	2,321.18	2.9%
	Mexico	USA	2,128.30	2,081.51	2.2%
	Mexico	Canada	1,743.00	1,726.54	0.9%
	Mexico	Mexico	2,233.55	2,177.16	2.5%
	Mexico	Panama	2,075.74	2,029.03	2.3%
	Mexico	Argentina	1,989.09	1,949.51	2.0%
	Mexico	Chile	2,188.70	2,133.29	2.5%
	Mexico	Brazil	1,659.36	1,645.55	0.8%
	Mexico	Colombia	1,882.91	1,851.35	1.7%
	Mexico	Uruguay	1,554.87	1,549.33	0.4%
	Vietnam	Vietnam	2,587.63	2,502.12	3.3%
	Vietnam	Australia	2,633.14	2,542.86	3.4%
	Vietnam	New Zealand	1,706.92	1,689.35	1.0%
	Vietnam	Malaysia	2,612.12	2,523.25	3.4%
	Vietnam	Singapore	2,108.82	2,059.41	2.3%
	Vietnam	India	2,799.98	2,696.47	3.7%
	Vietnam	South Korea	2,261.21	2,199.94	2.7%
	Vietnam	Hong Kong	2,553.29	2,469.03	3.3%
	Vietnam	Thailand	2,298.26	2,233.99	2.8%
	Vietnam	Bangladesh	2,457.15	2,380.52	3.1%
	Vietnam	Indonesia	2,845.83	2,738.64	3.8%
	Vietnam	Myanmar	2,271.32	2,209.24	2.7%
	Vietnam	Philippines	2,751.36	2,651.58	3.6%
	Vietnam	Sri Lanka	2,564.33	2,479.30	3.3%
	Vietnam	Taiwan	2,398.08	2,326.03	3.0%
	Egypt	Egypt	2,208.73	2,151.46	2.6%
	Egypt	Pakistan	2,233.19	2,174.13	2.6%
	Egypt	Algeria	2,367.59	2,297.91	2.9%
	Egypt	Cameroon	2,028.35	1,985.55	2.1%
	Egypt	Ghana	2,040.43	1,996.64	2.1%
	Egypt	Iran	2,363.58	2,294.30	2.9%

	Egypt	Iraq	3,168.13	3,035.77	4.2%
	Egypt	Israel	2,259.39	2,198.10	2.7%
	Egypt	Jordan	2,180.24	2,125.15	2.5%
	Egypt	Kenya	1,603.48	1,593.82	0.6%
	Egypt	Morocco	2,837.59	2,731.09	3.8%
	Egypt	Nigeria	2,262.82	2,201.61	2.7%
	Egypt	Saudi Arabia	2,561.84	2,476.86	3.3%
	Egypt	South Africa	3,151.50	3,020.54	4.2%
	Egypt	Sudan	2,108.30	2,058.89	2.3%
	Egypt	Tanzania	2,100.25	2,051.64	2.3%
	Egypt	UAE	2,381.28	2,310.61	3.0%

Product	Geographic Area		Net KgCO ₂ e per Functional Unit (not rounded)		Reduction (%)
	Production	Use	SKU: **75QN95B**** / **75QNB95****	SKU: **75QN95C**** / **75QNC95****	
NEO QLED 4K TV (75QN95B/C)	Hungary	Greece	2,223.34	2,141.95	3.7%
	Hungary	Netherlands	2,030.55	1,961.16	3.4%
	Hungary	Norway	1,567.16	1,526.58	2.6%
	Hungary	Germany	2,049.15	1,978.64	3.4%
	Hungary	Latvia	1,903.16	1,841.70	3.2%
	Hungary	Romania	2,020.80	1,952.10	3.4%
	Hungary	Lithuania	1,843.96	1,786.21	3.1%
	Hungary	Belgium	1,835.39	1,778.14	3.1%
	Hungary	Sweden	1,571.25	1,530.43	2.6%
	Hungary	Switzerland	1,664.18	1,617.62	2.8%
	Hungary	Spain	1,832.90	1,775.73	3.1%
	Hungary	Slovakia	1,920.65	1,858.18	3.3%
	Hungary	Poland	2,547.63	2,446.10	4.0%
	Hungary	UK	1,896.96	1,835.85	3.2%
	Hungary	Portugal	1,889.82	1,829.08	3.2%
	Hungary	Italy	1,960.55	1,895.54	3.3%
	Hungary	Turkey	2,337.09	2,248.57	3.8%
	Hungary	Hungary	1,881.57	1,821.54	3.2%
	Hungary	France	1,644.45	1,599.09	2.8%
	Hungary	Austria	1,821.12	1,764.84	3.1%
	Hungary	Croatia	1,828.73	1,771.96	3.1%
	Hungary	Czech Republic	2,231.65	2,149.80	3.7%
	Hungary	Denmark	1,695.17	1,646.66	2.9%
	Hungary	Estonia	2,006.92	1,938.99	3.4%
	Hungary	Finland	1,668.67	1,621.79	2.8%
	Hungary	Slovenia	1,879.17	1,819.26	3.2%
	Russia	Russia	2,171.55	2,093.51	3.6%
	Russia	Moldova	2,232.71	2,150.79	3.7%
	Russia	Kazakhstan	2,568.37	2,465.44	4.0%
	Russia	Belarus	2,169.70	2,091.74	3.6%
	Russia	Ukraine	2,146.83	2,070.27	3.6%

	Russia	Uzbekistan	2,447.87	2,352.43	3.9%
	Mexico	USA	2,184.97	2,105.85	3.6%
	Mexico	Canada	1,796.67	1,741.71	3.1%
	Mexico	Mexico	2,290.80	2,205.17	3.7%
	Mexico	Panama	2,131.26	2,055.73	3.5%
	Mexico	Argentina	2,044.00	1,973.88	3.4%
	Mexico	Chile	2,245.14	2,162.51	3.7%
	Mexico	Brazil	1,711.66	1,662.24	2.9%
	Mexico	Colombia	1,936.92	1,873.49	3.3%
	Mexico	Uruguay	1,606.37	1,563.49	2.7%
	Vietnam	Vietnam	2,647.32	2,539.60	4.1%
	Vietnam	Australia	2,692.98	2,582.49	4.1%
	Vietnam	New Zealand	1,759.50	1,707.13	3.0%
	Vietnam	Malaysia	2,671.75	2,562.60	4.1%
	Vietnam	Singapore	2,164.50	2,086.93	3.6%
	Vietnam	India	2,861.09	2,740.15	4.2%
	Vietnam	South Korea	2,318.10	2,230.96	3.8%
	Vietnam	Hong Kong	2,612.45	2,506.99	4.0%
	Vietnam	Thailand	2,355.42	2,265.97	3.8%
	Vietnam	Bangladesh	2,515.57	2,416.14	4.0%
	Vietnam	Indonesia	2,907.29	2,783.47	4.3%
	Vietnam	Myanmar	2,328.29	2,240.51	3.8%
	Vietnam	Philippines	2,812.08	2,694.20	4.2%
	Vietnam	Sri Lanka	2,623.60	2,517.44	4.0%
	Vietnam	Taiwan	2,456.04	2,360.31	3.9%
	Egypt	Egypt	2,265.30	2,181.43	3.7%
	Egypt	Pakistan	2,289.98	2,204.56	3.7%
	Egypt	Algeria	2,425.42	2,331.57	3.9%
	Egypt	Cameroon	2,083.56	2,010.98	3.5%
	Egypt	Ghana	2,095.74	2,022.40	3.5%
	Egypt	Iran	2,421.40	2,327.80	3.9%
	Egypt	Iraq	3,232.26	3,088.17	4.5%
	Egypt	Israel	2,316.36	2,229.31	3.8%
	Egypt	Jordan	2,236.58	2,154.50	3.7%
	Egypt	Kenya	1,655.34	1,609.43	2.8%
	Egypt	Morocco	2,899.12	2,775.78	4.3%
	Egypt	Nigeria	2,319.87	2,232.58	3.8%
	Egypt	Saudi Arabia	2,621.19	2,515.16	4.0%
	Egypt	South Africa	3,215.51	3,072.46	4.4%
	Egypt	Sudan	2,164.09	2,086.51	3.6%
	Egypt	Tanzania	2,156.00	2,078.92	3.6%
	Egypt	UAE	2,439.24	2,344.52	3.9%

Please note that any communications shall be based on the rounded Carbon Footprint Reduction results in percentage (%) terms. Further communication opportunities are outlined under the Communications section of this letter.



The rounded numbers are obtained according to the rounding rules contained in the Product Carbon Footprints: Requirements for Certification v2.

The Company certifies the above Listed Carbon Footprints and Reductions based on the supply chains and data provided in the following models:

- PCF_NEO QLED 4K_75QN85B_6th
- PCF_NEO QLED 4K_75QN85C_7th
- PCF_NEO QLED 4K_75QN90B_6th
- PCF_NEO QLED 4K_75QN90C_7th
- PCF_NEO QLED 4K_75QN95B_6th
- PCF_NEO QLED 4K_75QN95C_7th

Level of Assurance

This certification was carried out to a Reasonable Level of Assurance.

Materiality

It has been verified that all material non-conformities identified during the sampling performed on the footprint models submitted have been closed. If at any time and for whatever reason You or the Company identify any further non-conformities, the terms described in the Description of Service and General Terms and Conditions will apply. It is also Your duty to promptly inform the Company in writing.

Provision for material discrepancy

The Company has performed the certification in accordance with the applicable material discrepancy threshold: where actual errors, omissions or misrepresentations affect the final footprint result by the equivalent of 1% or more individually or 5% or more in aggregate they are predetermined to be a material discrepancy and therefore a non-conformity.

Certification Period

This Certification is valid for a period of 24 months from 12 April 2023 (the “effective date”) until 11 April 2025 subject to the provisions in this Certification Letter.

We will be in touch with you prior to the expiry of this certification to discuss your communications and reduction plans as well as re-certification. However, if you have any questions or would like to look into re-certification or reduction assessment at any time, please feel free to get in touch with us.

Suspended Non-conformities

The following non-conformities were raised but considered suitable for action prior to the next surveillance and/or re-certification audit. In general, it is expected that Minor Non-conformities should be closed with higher priority than Observations.

Identifier	Finding	Planned action	Severity
1	Biogenic emissions	Please ensure biogenic emissions are calculated and reported as part of the footprint.	Minor non-conformity
2	Product Consistency Criteria (PCC)	Please complete a PCC. A three-month grace period from the date of certification has been applied for this to be completed.	Minor non-conformity

Communications

Any claims regarding the certification results or any other claims shall be made in accordance with the Product Carbon Footprints: Requirements for Certification v2 and Brand Guidelines.

In accordance with the Product Carbon Footprints: Requirements for Certification v2 and Brand Guidelines You are permitted to communicate the certified results and/or to claim a reduction commitment, as set out below and in any associated Annex:

- The certified numbers and products published in the Product Emission Report:
 - PCF_NEO QLED 4K_75QN85C_7th
 - PCF_NEO QLED 4K_75QN90C_7th
 - PCF_NEO QLED 4K_75QN95C_7th
- The result presented in this letter shall be used for public reporting and are the sum of all fossil emissions. A breakdown of these emissions is presented in the Product Emissions Report.
- The Product Carbon Footprint of this product has been certified by the Carbon Trust.
- Samsung Electronics has committed to reduce the carbon footprints of NEO QLED 4K TV.
- In accordance with the reduction table results: "Samsung Electronics has achieved a reduction of [xx]% for the carbon footprint of NEO QLED 4K TV."



- Reduction claims shall not be made until emissions reduction has been achieved and verified by the Company.

Any claims or communication made during the Certification Period shall comply with the Product Carbon Footprints: Requirements for Certification v2 and Brand Guidelines. Any communications, other than those listed above, shall be submitted to the Company for prior approval and may be documented in an Annex of this Certification Letter at the Company's discretion.

For and on behalf of
Carbon Trust Assurance Limited

A handwritten signature in black ink, appearing to read "M Hockaday", written over a thin horizontal line.

Martin Hockaday,
Head of Assurance