



Lotte Aluminium GHG Calculation Tool

ASI Entity GHG Calculation Tool

Baseline Year : '2018'

- Entities that are developing GHG Pathways for the first time are encouraged to use the most recent year for which data is available as the base year.
- If an Entity has more detailed data for a previous year this is acceptable for validation purposes, as long as most recent year data is also disclosed.
- If the chosen base year is more than three (3) years prior to the initial ASI Performance Standard Certification/Re-Certification Audit that is assessing conformance with Criterion 5.3 (e.g. to align with a corporate baseline), the most recent year data should indicate already achieved performance in line with the Entity Pathway in order for the Entity to be in conformance.
- The base year should be fixed for the duration of the Pathway.
- Intermediate Targets must cover a period no greater than five (5) years from the chosen base year.

Casthouse & Post-CH Data Entry

	A	B	C
-	Process Scope 1+2 Intensity (t CO2e/t Al)	Scope 3 Cat. 1 Average intensity of PURCHASED Aluminium (including scrap) (t CO2/et Al) OR, If smelter casthouse: Average emissions intensity of Aluminium INPUT to the casthouse	Mass of aluminium INPUT (t Al), Only required if Entity wishes to use a single integrated (multi-process) procurement slope
Casthouse in Baseline YEAR (2018)		8.0	
Semi-fabrication process in Baseline YEAR (2018)	0.805	0.8	
Fabrication Process in Baseline YEAR (2018)			
			0

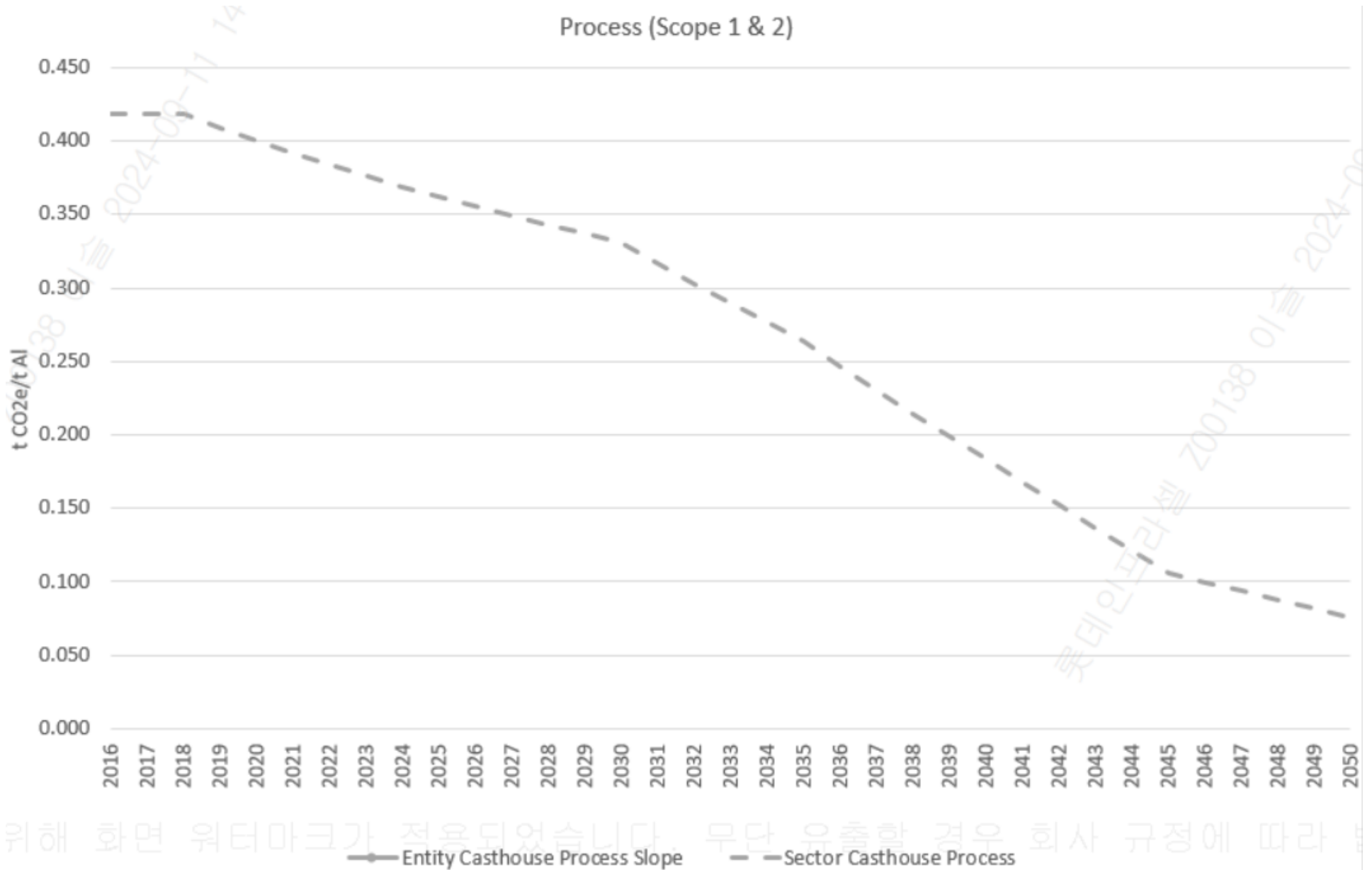
CASTHOUSE	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	'35	'36	'37	'38	'39	'40	'41	'42	'43	'44	'45	'46	'47	'48	'49	'50
GATE TO GATE SLOPE (scope 1+2) =																																	
PROCUREMENT SLOPE (Scope 3, Cat.1) MEASURED AT INPUT =	8.0	7.8	7.3	7.4	7.2	6.8	6.6	6.4	6.0	6.0	5.7	5.4	5.0	4.3	3.4	3.1	2.5	1.8	1.7	1.3	1.1	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.2

Casthouse & Post-CH Data Entry

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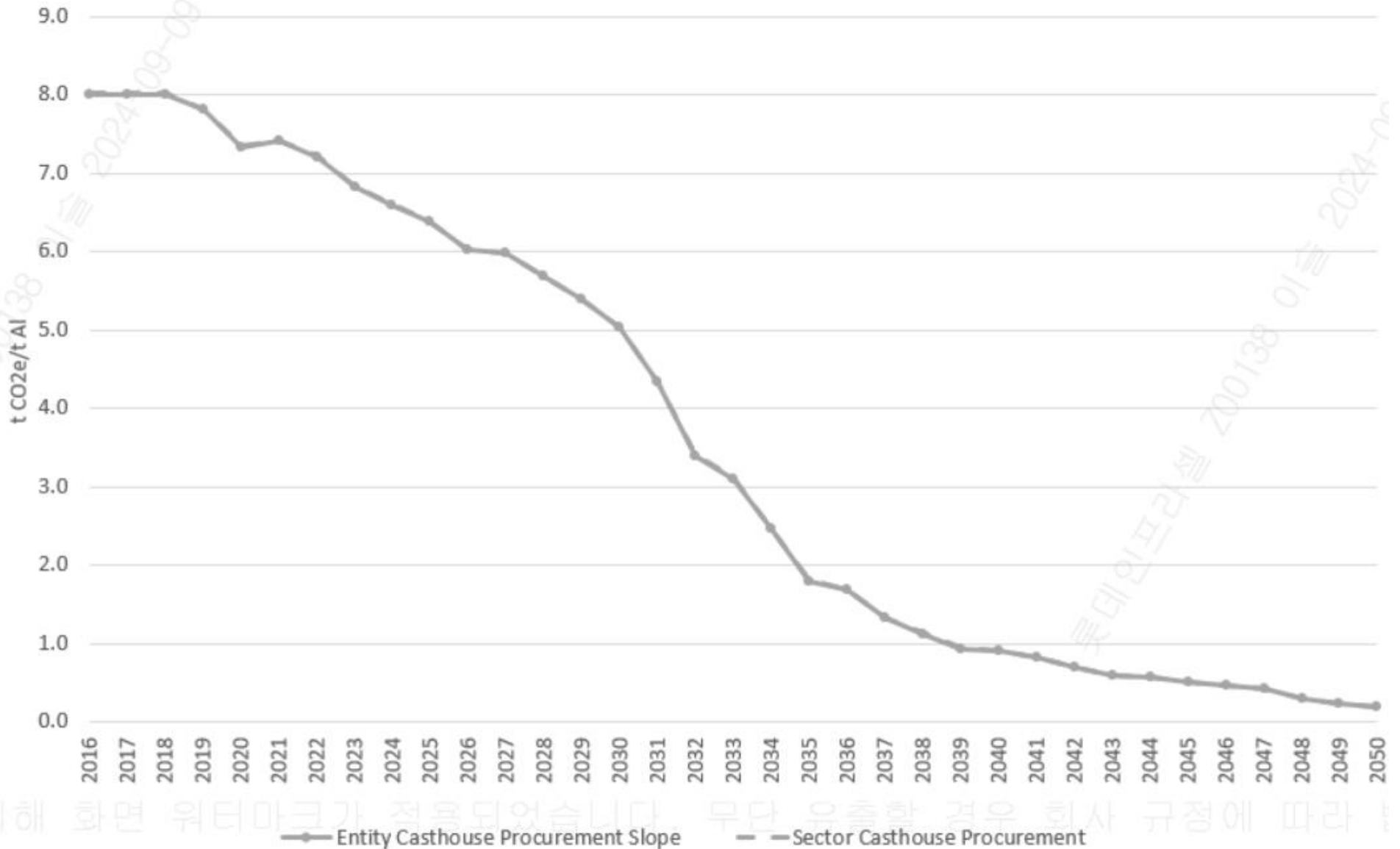
SEMI-FABRICATION	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34
GATE TO GATE SLOPE (scope 1+2) =	0.500	0.487	0.475	0.462	0.449	0.436	0.424	0.411	0.398	0.385	0.373	0.360	0.347	0.339	0.331	0.323	0.315
PROCUREMENT SLOPE (Scope 3, Cat.1) MEASURED AT INPUT =	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4

Casthouse Scopes 1+2 Slope

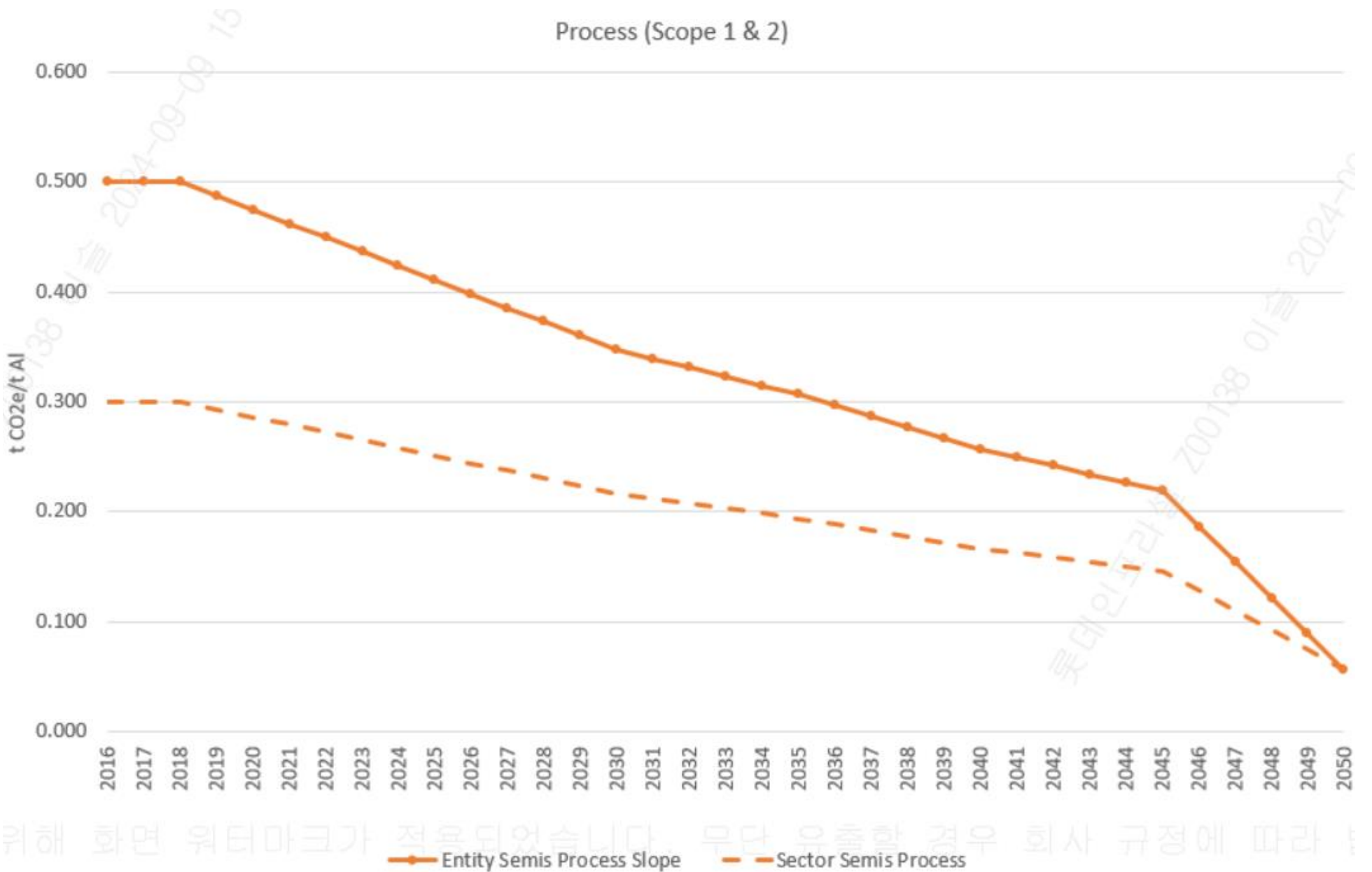


CH Procurement Scope 3, Cat 1

Aluminium Procurement (Scope 3, Cat. 1)

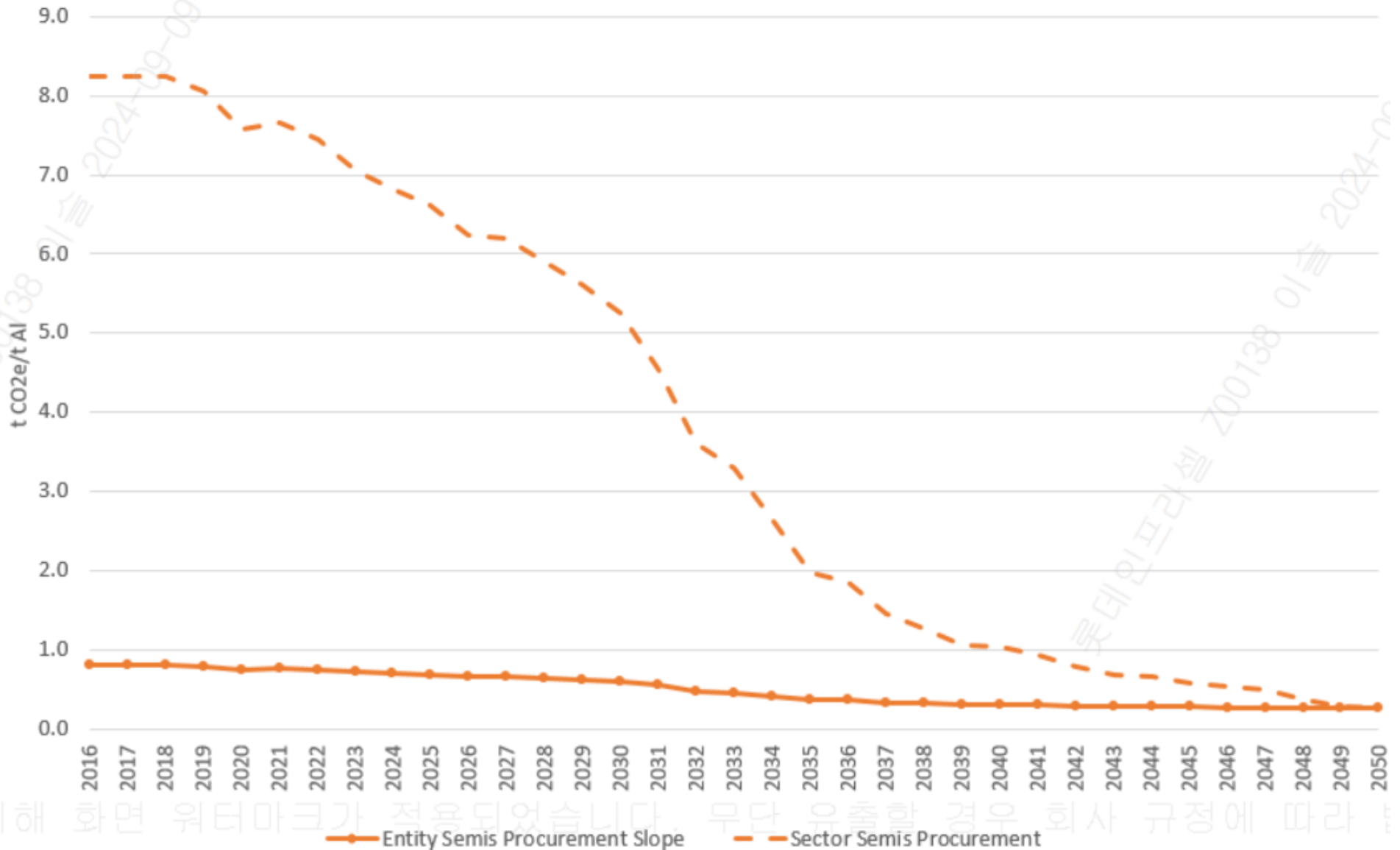


Semi-fab Scopes 1+2 Slope Chart



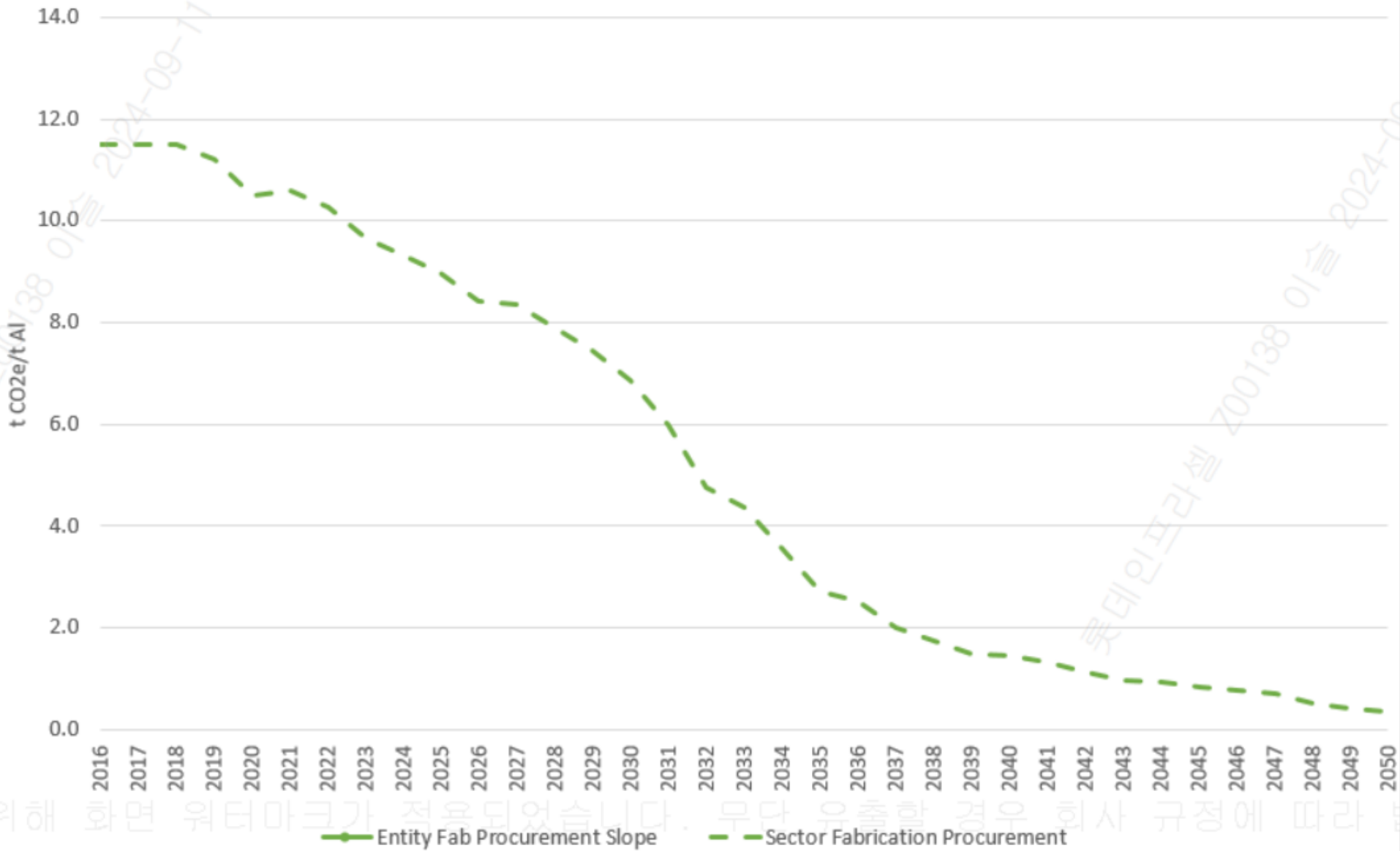
Semi-fab Procurement Scope 3.1

Aluminium Procurement (Scope 3, Cat. 1)



Fabrication Proc'ment Scope 3.1

Aluminium Procurement (Scope 3, Cat. 1)



MISSION

사랑과 신뢰를 받는
제품과 서비스를 제공하여
인류의 풍요로운 삶에 기여한다

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our customers love and trust