

(Maintain)	Buy
Target price	▼ W470,000
Current price (7/10/26)	W313,500
Upside	49.9%

OP (26F, Wbn)	2,825
Consensus OP (26F, Wbn)	3,108
EPS growth (26F, %)	140.5
Market EPS growth (26F, %)	261.0
P/E (26F, x)	16.1
Market P/E (26F, x)	7.6
KOSPI	7,475.94
Market cap (Wbn)	24,842
Shares (mn)	79
Free float (%)	81.3
Foreign ownership (%)	32.3
Beta (12M)	0.68
52-week low (W)	263,000
52-week high (W)	535,000

(%)	1M	6M	12M
Absolute	-13.6	3.1	-0.3
Relative	-10.7	-36.7	-57.6



Mirae Asset Securities Co., Ltd.

Ki Ryong Kim
kiryong.kim@miraeasset.com

005490 KS • Steel

POSCO Holdings

Undervaluation likely to ease on earnings improvement

2Q26 preview: OP to exceed consensus by 7%

For 2Q26, we expect POSCO Holdings to report consolidated revenue of W17.9tr (+2.2% YoY) and operating profit of W757bn (+24.7% YoY; 7% above the consensus of W709.7bn). Despite higher input and freight costs, steel operating profit likely improved QoQ on higher selling prices, increased peak-season shipment volumes, a weaker won, and the deconsolidation of Zhangjiagang in China. In battery materials, earnings likely continued the sharp YoY improvement seen in 1Q26, supported by higher earnings at POSCO Future M and increased utilization at POSCO Argentina.

CEO Investor Day highlights new business/financial strategies

On Jul. 2, POSCO Holdings held its first CEO Investor Day since the current CEO took office, presenting its vision for new businesses along with its financial strategy. Management outlined plans to expand overseas crude steel capacity to 10mn tonnes by 2031 through projects in India, the US, and Indonesia. In the lithium business, it highlighted plans to return to profitability and expand production based on high-quality resources, increasing capacity from 93,000 tonnes in 2026 to 173,000 tonnes by 2033.

Going forward, POSCO Holdings plans to expand beyond its existing focus on steel and lithium into the resources business, with the aim of strengthening supply chain stability for key strategic industries. In rare earths (critical minerals for EVs, robotics, and AI data centers), the firm plans to build an integrated value chain spanning mining, raw material production, and permanent magnet manufacturing via overseas joint ventures and equity investments.

Management also outlined the following targets: 1) returning 35–40% of adjusted net profit attributable to owners of the parent to shareholders over 2026–28; 2) reducing the holding company discount by bringing its stakes in key listed subsidiaries to around 50% by 2027; and 3) achieving a P/B of at least 1.0x by 2028 (vs. 0.4x in 2025).

Maintain Buy; lower TP to W470,000

We maintain our Buy rating on POSCO Holdings but lower our target price by 24% to W470,000 (from W620,000), reflecting changes in net debt and the value of its stakes in key listed subsidiaries (e.g., POSCO Future M).

The stock is currently trading at a P/B of 0.43x. We continue to expect its valuation discount to narrow, supported by a potential rebound in lithium prices and improving earnings in the steel and infrastructure segments.

(Dec.)	2024	2025	2026F	2027F	2028F
Revenue (Wbn)	72,688	69,095	72,000	75,074	77,643
OP (Wbn)	2,174	1,827	2,825	3,585	3,920
OP margin (%)	3.0	2.6	3.9	4.8	5.0
NP (Wbn)	1,095	658	1,549	2,060	2,011
EPS (W)	13,073	8,085	19,442	25,993	25,372
ROE (%)	2.0	1.2	2.7	3.5	3.4
P/E (x)	19.4	37.7	16.1	12.1	12.4
P/B (x)	0.4	0.4	0.4	0.4	0.4
Dividend yield (%)	3.9	3.3	3.2	3.8	4.5

Notes: Under consolidated K-IFRS; NP is attributable to owners of the parent
Source: Company data, Mirae Asset Securities Research estimates

Mirae Asset Securities Research **AI translation**

This report was translated using AI tools, with oversight and review by professional translators and editors. As an AI-generated translation, it may contain errors or inconsistencies. The original Korean report remains the authoritative version and should be consulted for the most accurate information.

Analysts who prepared this report are registered as research analysts in Korea but not in any other jurisdiction, including the US. Please see analyst certifications and important disclosures & disclaimers in Appendix 1 at the end of the report.

Table 1. Quarterly earnings

(Wbn)

	2Q25	3Q25	4Q25	1Q26	2Q26F	YoY	QoQ	Consensus	Diff.
Revenue	17,556	17,261	16,841	17,876	17,949	2.2%	0.4%	18,065	-0.6%
OP	607	639	13	707	757	24.7%	7.1%	710	6.7%
Pretax profit	228	518	-149	757	637	179.9%	-15.8%	607	5.1%
NP attributable to owners of the parent	160	421	-225	467	431	169.8%	-7.7%	399	8.0%
OP margin	3.5%	3.7%	0.1%	4.0%	4.2%			3.9%	
Pretax margin	1.3%	3.0%	-0.9%	4.2%	3.6%			3.4%	
Net margin	0.9%	2.4%	-1.3%	2.6%	2.4%			2.2%	

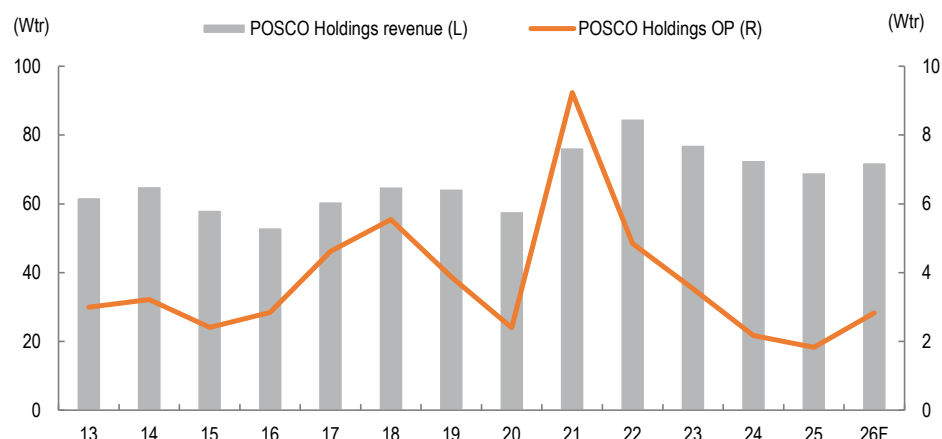
Source: Company data, Mirae Asset Securities Research

Table 2. Earnings forecasts by business

(Wbn)

	1Q25	2Q25	3Q25	4Q25	2025	1Q26	2Q26F	3Q26F	4Q26F	2026F	2027F
Revenue	17,437	17,556	17,261	16,841	69,095	17,876	17,949	18,036	18,139	72,000	75,074
- Steel	15,112	15,021	14,756	14,522	59,411	14,964	15,082	15,106	15,115	60,268	62,664
- Infrastructure	13,176	13,347	13,168	13,314	53,005	13,859	13,695	14,018	14,403	55,975	57,622
- Battery materials	930	764	1,000	644	3,338	979	1,006	1,098	1,156	4,239	5,076
- Consolidation adj.	-11,782	-11,576	-11,663	-11,639	-46,659	-11,926	-11,835	-12,186	-12,535	-48,483	-50,287
COGS	16,101	16,170	15,845	15,813	63,929	16,360	16,375	16,440	16,525	65,699	67,927
COGS ratio	92.3%	92.1%	91.8%	93.9%	92.5%	91.5%	91.2%	91.2%	91.1%	91.2%	90.5%
Gross margin	1,336	1,385	1,416	1,029	5,166	1,516	1,574	1,596	1,614	6,300	7,148
SG&A	767	778	777	1,016	3,339	810	817	811	1,038	3,475	3,562
SG&A ratio	4.4%	4.4%	4.5%	6.0%	4.8%	4.5%	4.6%	4.5%	5.7%	4.8%	4.7%
OP	568	607	639	13	1,827	707	757	785	577	2,825	3,585
- Steel	453	602	651	255	1,961	345	424	439	370	1,578	2,071
- Infrastructure	304	237	151	-10	682	405	403	440	316	1,564	1,781
- Battery materials	-164	-144	-42	-157	-508	-7	22	17	16	48	225
- Consolidation adj.	-24	-88	-121	-75	-308	-36	-92	-111	-125	-365	-491
OP margin	3.3%	3.5%	3.7%	0.1%	2.6%	4.0%	4.2%	4.4%	3.2%	3.9%	4.8%
- Steel	3.0%	4.0%	4.4%	1.8%	3.3%	2.3%	2.8%	2.9%	2.4%	2.6%	3.3%
- Infrastructure	2.3%	1.8%	1.1%	-0.1%	1.3%	2.9%	2.9%	3.1%	2.2%	2.8%	3.1%
- Battery materials	-17.7%	-18.9%	-4.2%	-24.4%	-15.2%	-0.7%	2.1%	1.6%	1.4%	1.1%	4.4%
Pretax profit	510	228	518	-149	1,107	757	637	622	452	2,468	3,250
Pretax margin	2.9%	1.3%	3.0%	-0.9%	1.6%	4.2%	3.6%	3.4%	2.5%	3.4%	4.3%
NP attributable to owners of the parent	302	160	421	-225	658	467	431	403	247	1,549	2,060
Net margin	1.7%	0.9%	2.4%	-1.3%	1.0%	2.6%	2.4%	2.2%	1.4%	2.2%	2.7%

Source: Company data, Mirae Asset Securities Research

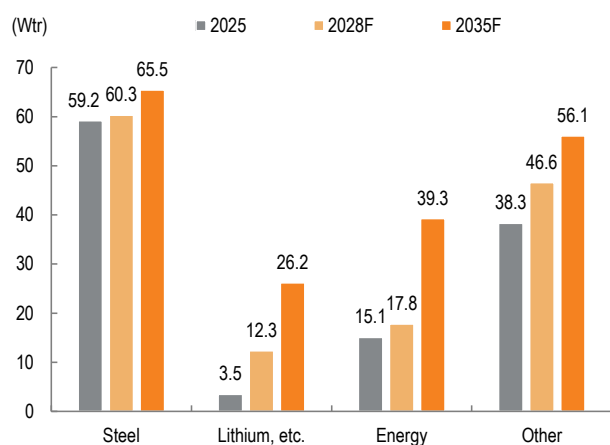
Figure 1. POSCO Holdings: Annual revenue and OP

Source: Company data, Mirae Asset Securities Research

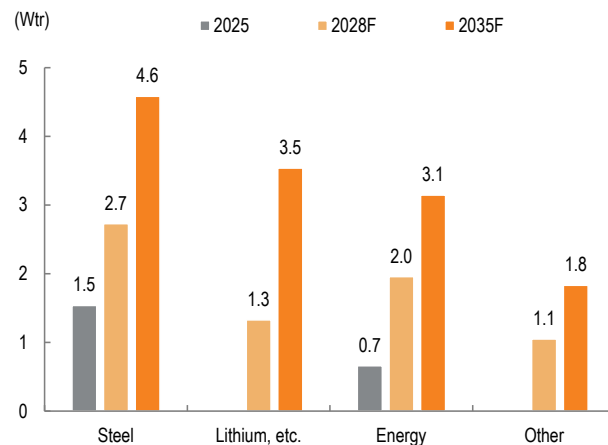
Table 3. POSCO Group's portfolio transformation strategy

Segment	Area	Key initiatives
Steel	Overseas growth investments	Establish overseas crude steel production capacity of 10mn tonnes by 2031 (India, US, and Indonesia)
	Strengthening domestic competitiveness	Focus on developing eight strategic product categories, including steel products for new energy applications and next-generation mobility
Lithium, etc.	Lithium	Grow into a global top-five producer by expanding capacity from 93,000 tonnes in 2026 to 173,000 tonnes by 2033
	Cathode/anode materials	Establish a production system through partnerships with leading Chinese firms (CNGR, etc.), utilizing materials such as lithium dihydrogen phosphate (LDP)
	Recycling	Expand recycling business, raising annual processing capacity from 12,000 tonnes in 2026 to 72,000 tonnes by 2035
	Rare earths	Build a global supply chain through joint ventures and equity investments, with production planned to increase from 4,800 tonnes in phase 1 (2028) to 8,700 tonnes in phase 2 (from 2030)
	Rare/specialty gases	Leverage domestic production to develop new businesses and strengthen supply chain stability for advanced industries, including semiconductors and aerospace
Energy	LNG	Expand businesses across the LNG value chain and strengthen global operating capabilities
	Renewable energy	Enter the offshore wind, solar + BESS, biodiesel, and SAF markets to support decarbonization and prepare for the "next-LNG" era
New businesses	New businesses	Identify promising business opportunities and develop them into new growth engines for the group, including facility automation and robotics commercialization using physical AI

Source: Company materials, Mirae Asset Securities Research

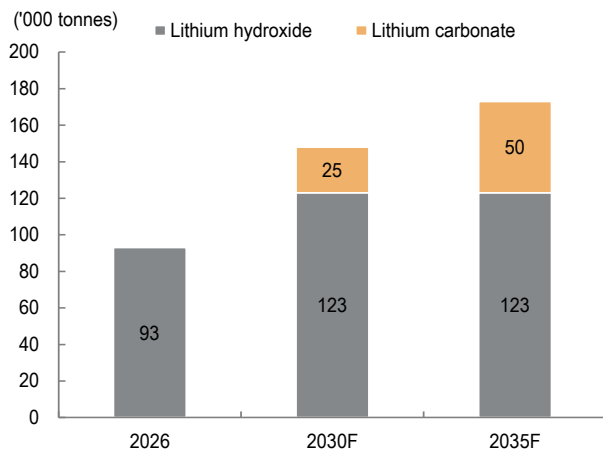
Figure 2. POSCO Holdings: Annual revenue guidance

Source: Company data, Mirae Asset Securities Research

Figure 3. POSCO Holdings: Annual OP guidance

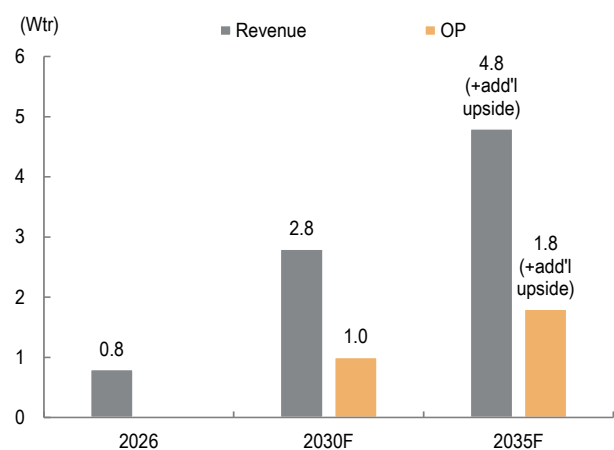
Source: Company data, Mirae Asset Securities Research

Figure 4. Lithium segment: Production targets



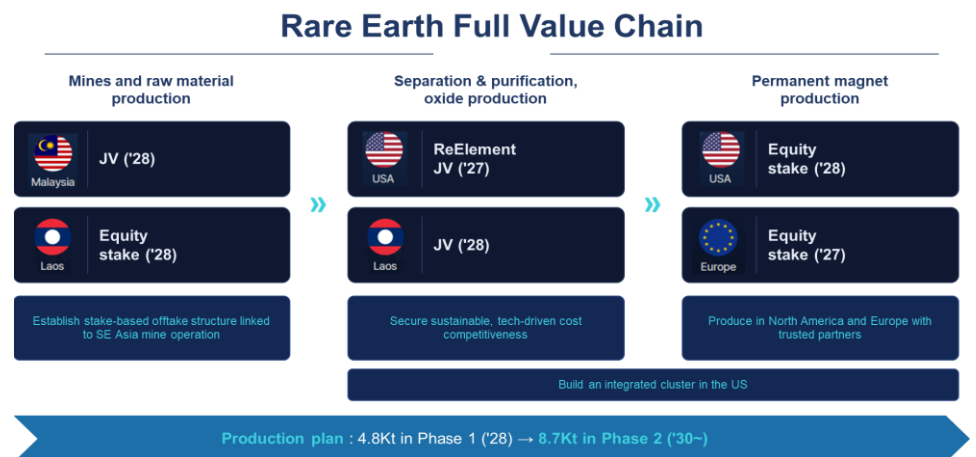
Source: Company data, Mirae Asset Securities Research

Figure 5. Lithium segment: Earnings outlook



Source: Company data, Mirae Asset Securities Research

Figure 6. POSCO Holdings' rare earth value chain strategy



Source: Company data, Mirae Asset Securities Research

Table 4. 2026-28 investment plan (growth investments: W16.7tr)

(Wtr)

Business area	Investment	Key investments
Industrial resources	7.6	India: JSW joint venture mill; US: Louisiana EAF; Indonesia: major expansion of PT. KP and upstream facilities; electrical steel sheet and heavy plate for offshore wind applications; HyREX demo plant
Strategic resources	4.1	Australia: MinRes hard-rock lithium mine and refining expansion; Argentina: POSCO Argentina Phase 3; lithium resources (South American brine assets and North American hard-rock mines); US DLE demonstration plant construction; critical minerals (including rare earths and graphite); additional investment in Vietnamese synthetic graphite (building on existing projects)
Energy resources	3.7	Modernization of Incheon LNG units 3-4; production expansion at projects in Myanmar and Australia's Senex; North American solar + BESS business; domestic offshore wind development
New growth engines	1.3	Physical AI; power infrastructure; next-generation mobility materials; decarbonization/recycling

Source: Company data, Mirae Asset Securities Research

Table 5. POSCO Holdings: TP calculation

(Wbn, x, W)

	Value	Notes
Operating value	25,797	
1) Steel	19,671	
- EBITDA	3,577	2026F
- EV/EBITDA	5.5	Avg. during price up-cycle in 2016-17
2) Lithium	6,126	Global peer avg. EV/EBITDA
Asset value	14,644	
1) Listed	11,131	
- POSCO Future M	5,517	1M avg. market cap (58.2% stake; 40% discount)
- POSCO International	3,940	1M avg. market cap (70.7% stake; 40% discount)
- POSCO DX	1,396	1M avg. market cap (65.4% stake; 40% discount)
- POSCO M-Tech	92	1M avg. market cap (48.9% stake; 40% discount)
- POSCO Steeleon	185	1M avg. market cap (56.9% stake; 40% discount)
2) Unlisted (major)	1,643	30% discount to value of POSCO E&C, etc.
3) Investment assets	1,870	
- Treasury stock	685	40% discount; cancellation of approx. 1.69mn shares on Mar. 31
- Real estate	1,184	30% discount
Net debt	3,533	Standalone basis (including short-term financial assets)
Value	36,908	
- No. of shares	79,241,527	Reflecting the cancellation of approx. 1.69mn shares
TP	470,000	
CP	313,500	As of Jul. 10
Upside	49.9%	

Source: Mirae Asset Securities Research

Figure 7. POSCO Holdings: 12-month forward P/B band chart



Source: Mirae Asset Securities Research

POSCO Holdings (005490 KS)

Income statement (summarized)

(Wbn)	2025	2026F	2027F	2028F
Revenue	69,095	72,000	75,074	77,643
Cost of revenue	63,929	65,699	67,927	70,063
GP	5,166	6,301	7,147	7,580
SG&A expenses	3,339	3,475	3,562	3,661
OP (adj.)	1,827	2,825	3,585	3,920
OP	1,827	2,825	3,585	3,920
Non-operating profit	-720	-357	-335	-294
Net financial income	-558	-590	-524	-505
Net income from associates	350	378	382	388
Pretax profit	1,107	2,468	3,250	3,626
Income tax	602	692	910	1,015
Profit from continuing operations	504	1,775	2,340	2,611
Profit from discontinued operations	0	0	0	0
NP	504	1,775	2,340	2,611
Attributable to owners	658	1,549	2,060	2,011
Attributable to minority interests	-153	227	280	601
Total comprehensive income	923	2,982	2,429	2,611
Attributable to owners	1,033	2,582	2,261	2,273
Attributable to minority interests	-110	400	168	338
EBITDA	5,986	7,040	7,818	8,174
FCF	-1,093	377	2,242	2,404
EBITDA margin (%)	8.7	9.8	10.4	10.5
OP margin (%)	2.6	3.9	4.8	5.0
Net margin (%)	1.0	2.2	2.7	2.6

Balance sheet (summarized)

(Wbn)	2025	2026F	2027F	2028F
Current assets	43,484	44,387	45,082	45,780
Cash & equivalents	7,050	7,304	7,522	7,658
AR & other receivables	10,677	11,091	11,299	11,544
Inventory	13,624	13,761	13,926	14,135
Other current assets	12,133	12,231	12,335	12,443
Non-current assets	61,709	64,352	64,726	65,177
Investments in associates	4,980	5,698	5,712	5,788
PP&E	42,293	43,770	44,002	44,275
Intangible assets	5,494	5,791	5,840	5,886
Total assets	105,192	108,740	109,808	110,957
Current liabilities	23,132	23,184	22,943	22,692
AP & other payables	6,753	6,789	6,852	6,931
Short-term financial liabilities	12,367	12,433	12,189	11,917
Other current liabilities	4,012	3,962	3,902	3,844
Non-current liabilities	19,683	20,941	20,729	20,539
Long-term financial liabilities	17,626	18,920	18,744	18,604
Other non-current liabilities	2,057	2,021	1,985	1,935
Total liabilities	42,815	44,125	43,672	43,231
Equity attributable to owners	55,730	57,864	59,105	60,095
Capital stock	482	482	482	482
Capital surplus	1,685	1,529	1,529	1,529
Retained earnings	53,177	53,640	54,793	55,782
Minority interests	6,648	6,750	7,031	7,631
Shareholders' equity	62,378	64,614	66,136	67,726

Cash flow statement (summarized)

(Wbn)	2025	2026F	2027F	2028F
Operating cash flow	4,572	4,935	6,199	6,416
NP	504	1,775	2,340	2,611
Non-cash income/expenses	5,939	5,294	5,389	5,498
Depreciation	3,693	3,713	3,725	3,739
Amortization	466	502	508	516
Other	1,780	1,079	1,156	1,243
Chg. in working capital	-805	-1,267	-450	-526
Chg. in AR & other receivables	-663	678	-179	-203
Chg. in inventory	567	383	-165	-209
Chg. in AP & other payables	-917	145	51	62
Income tax	-840	-624	-910	-1,015
Cash flow from investing activities	-6,687	-4,882	-4,684	-4,695
Chg. in PP&E	-5,451	-4,529	-3,957	-4,012
Chg. in intangible assets	-568	-607	-556	-562
Chg. in financial assets	-823	30	-98	-89
Other	155	224	-73	-32
Cash flow from financing activities	2,403	-299	-1,327	-1,433
Chg. in financial liabilities	2,886	1,360	-420	-412
Chg. in equity	36	-157	0	0
Dividends	-915	-531	-907	-1,021
Other	396	-971	0	0
Chg. in cash	282	255	218	136
Beginning balance	6,768	7,050	7,304	7,522
Ending balance	7,050	7,304	7,522	7,658

Source: Company data, Mirae Asset Securities Research estimates

Key valuation metrics/ratios

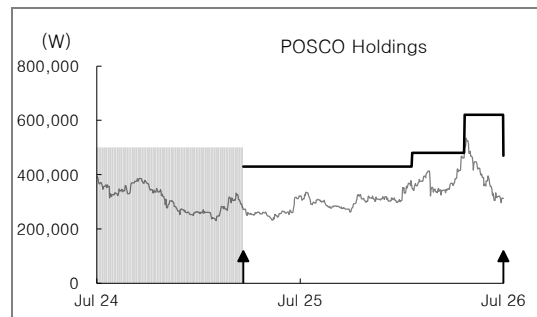
	2025	2026F	2027F	2028F
P/E (x)	37.7	16.1	12.1	12.4
P/CF (x)	3.9	3.5	3.2	3.1
P/B (x)	0.4	0.4	0.4	0.4
EV/EBITDA (x)	7.5	6.6	5.9	5.7
EPS (W)	8,085	19,442	25,993	25,372
CFPS (W)	79,214	88,739	97,540	102,329
BPS (W)	703,131	740,340	756,002	768,491
DPS (W)	10,000	10,000	12,000	14,000
Dividend payout ratio (%)	149.9	42.6	38.8	40.5
Dividend yield (%)	3.3	2.6	3.1	3.6
Revenue growth (%)	-4.9	4.2	4.3	3.4
EBITDA growth (%)	-2.8	17.6	11.1	4.5
OP growth (%)	-15.9	54.6	26.9	9.3
EPS growth (%)	-38.2	140.5	33.7	-2.4
AR turnover (x)	7.3	7.4	7.5	7.6
Inventory turnover (x)	5.0	5.3	5.4	5.5
AP turnover (x)	11.3	12.8	13.2	13.4
ROA (%)	0.5	1.7	2.1	2.4
ROE (%)	1.2	2.7	3.5	3.4
ROIC (%)	1.3	3.0	3.7	4.0
Debt-to-equity ratio (%)	68.6	68.3	66.0	63.8
Current ratio (x)	188.0	191.5	196.5	201.7
Net debt-to-equity ratio (%)	22.1	23.3	21.7	20.3
Interest coverage ratio (x)	1.7	2.4	3.3	3.6

Appendix 1

Important disclosures and disclaimers

Two-year rating and TP history

Company	Date	Rating	TP (₩)
POSCO Holdings (005490)	07/13/26	Buy	470,000
	05/04/26	Buy	620,000
	01/30/26	Buy	480,000
	04/02/25	Buy	430,000



Stock ratings

Buy	Expected 12-month return: +20% or greater
Hold	Expected 12-month return: Greater than -10% and less than +10%
Sell	Expected 12-month return: -10% or less

Sector ratings

Overweight	Expected to outperform the market over 12 months
Neutral	Expected to perform in line with the market over 12 months
Underweight	Expected to underperform the market over 12 months

As of May 12, 2025, the Trading Buy rating category has been removed from our investment rating system.

Stocks expected to deliver a 12-month return between +10% and less than +20% may be rated either Buy or Hold at the discretion of the research analyst.

Rating and TP history: Share price (—), TP (—), Not Rated (■), Buy (▲), Trading Buy (■), Hold (●), Sell (◆)

* Our investment rating is a guide to the expected return of the stock over the next 12 months.

* Outside of the official ratings of Mirae Asset Securities Co., Ltd., analysts may call trading opportunities should technical or short-term material developments arise.

* The TP was determined by the research analyst through valuation methods discussed in this report, in part based on estimates of future earnings.

* TP achievement may be impeded by risks related to the subject securities and companies, as well as general market and economic conditions.

Ratings distribution and investment banking services

	Buy	Trading Buy	Hold	Sell
Ratings distribution	83.02%	0%	16.35%	0.63%
Investment banking services	86.67%	0%	13.33%	0%

* Based on recommendations in the last 12-months (as of June 30, 2026)

Disclosures

As of the publication date, Mirae Asset Securities Co., Ltd. has acted as a liquidity provider for equity-linked warrants backed by shares of POSCO Holdings as an underlying asset; other than this, Mirae Asset Securities has no other special interests in the covered companies.

As of the publication date, Mirae Asset Securities Co., Ltd. is acting as a financial advisor to POSCO Holdings for its treasury share buyback and cancellation.

Analyst certification

The research analysts who prepared this report (the "Analysts") are registered with the Korea Financial Investment Association and are subject to Korean securities regulations. They are neither registered as research analysts in any other jurisdiction nor subject to the laws or regulations thereof. Each Analyst responsible for the preparation of this report certifies that (i) all views expressed in this report accurately reflect the personal views of the Analyst about any and all of the issuers and securities named in this report and (ii) no part of the compensation of the Analyst was, is, or will be directly or indirectly related to the specific recommendations or views contained in this report. Mirae Asset Securities Co., Ltd. ("Mirae Asset Securities") policy prohibits its Analysts and members of their households from owning securities of any company in the Analyst's area of coverage, and the Analysts do not serve as an officer, director, or advisory board member of the subject companies. Except as otherwise specified herein, the Analysts have not received any compensation or any other benefits from the subject companies in the past 12 months and have not been promised the same in connection with this report. Like all employees of Mirae Asset Securities, the Analysts receive compensation that is determined by overall firm profitability, which includes revenues from, among other business units, the institutional equities, investment banking, proprietary trading, and private client divisions. At the time of publication of this report, the Analysts do not know or have reason to know of any actual, material conflict of interest of the Analyst or Mirae Asset Securities except as otherwise stated herein.

Disclaimers

This report was prepared by Mirae Asset Securities, a broker-dealer registered in the Republic of Korea and a member of the Korea Exchange. Information and opinions contained herein have been compiled in good faith and from sources believed to be reliable, but such information has not been independently verified and Mirae Asset Securities makes no guarantee, representation or warranty, express or implied, as to the fairness, accuracy, completeness, or correctness of the information and opinions contained herein or of any translation into English from the Korean language. In case of an English translation of a report prepared in the Korean language, the original Korean language report may have been made available to investors in advance of this report.

The intended recipients of this report are sophisticated institutional investors who have substantial knowledge of the local business environment, its common practices, laws, and accounting principles, and no person whose receipt or use of this report would violate any laws or regulations or subject Mirae Asset Securities or any of its affiliates to registration or licensing requirements in any jurisdiction shall receive or make any use hereof.

This report is for general information purposes only and is not and shall not be construed as an offer or a solicitation of an offer to effect transactions in any securities or other financial instruments. The report does not constitute investment advice to any person, and such person shall not be treated as a client of Mirae Asset Securities by virtue of receiving this report. This report does not take into account the particular investment objectives, financial situations, or needs of individual clients. The report is not to be relied upon in substitution for the exercise of independent judgment. Information and opinions contained herein are as of the date hereof and are subject to change without notice. The price and value of the investments referred to in this report and the income

from them may depreciate or appreciate, and investors may incur losses on investments. Past performance is not a guide to future performance. Future returns are not guaranteed, and a loss of original capital may occur. Mirae Asset Securities, its affiliates, and their directors, officers, employees, and agents do not accept any liability for any loss arising out of the use hereof.

Mirae Asset Securities may have issued other reports that are inconsistent with, and reach different conclusions from, the opinions presented in this report. The reports may reflect different assumptions, views, and analytical methods of the analysts who prepared them. Mirae Asset Securities may make investment decisions that are inconsistent with the opinions and views expressed in this research report. Mirae Asset Securities, its affiliates, and their directors, officers, employees, and agents may have long or short positions in any of the subject securities at any time and may make a purchase or sale, or offer to make a purchase or sale, of any such securities or other financial instruments from time to time in the open market or otherwise, in each case either as principals or agents. Mirae Asset Securities and its affiliates may have had, or may be expecting to enter into, business relationships with the subject companies to provide investment banking, market-making, or other financial services as are permitted under applicable laws and regulations.

No part of this document may be copied or reproduced in any manner or form or redistributed or published, in whole or in part, without the prior written consent of Mirae Asset Securities. For further information regarding company-specific information as it pertains to the representations and disclosures in this Appendix 1, please contact compliance@miraeasset.us.com or +1 (212) 407-1000.

Distribution

United Kingdom: This report is being distributed by Mirae Asset Securities (UK) Ltd. in the United Kingdom only to (i) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the "Order"), and (ii) high net worth companies and other persons to whom it may lawfully be communicated, falling within Article 49(2)(A) to (E) of the Order (all such persons together being referred to as "Relevant Persons"). This report is directed only at Relevant Persons. Any person who is not a Relevant Person should not act or rely on this report or any of its contents.

United States: Mirae Asset Securities is not a registered broker-dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This report is distributed in the U.S. by Mirae Asset Securities (USA) Inc., a member of FINRA/SIPC, to "major U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6(b)(4) under the U.S. Securities Exchange Act of 1934, as amended. All U.S. persons that receive this document by their acceptance hereof represent and warrant that they are a major U.S. institutional investor and have not received this report under any express or implied understanding that they will direct commission income to Mirae Asset Securities or its affiliates. Any U.S. recipient of this document wishing to effect a transaction in any securities discussed herein should contact and place orders with Mirae Asset Securities (USA) Inc. Mirae Asset Securities (USA) Inc. accepts responsibility for the contents of this report in the U.S., subject to the terms hereof, to the extent that it is delivered to a U.S. person other than a major U.S. institutional investor. Under no circumstances should any recipient of this research report effect any transaction to buy or sell securities or related financial instruments through Mirae Asset Securities. The securities described in this report may not have been registered under the U.S. Securities Act of 1933, as amended, and, in such case, may not be offered or sold in the U.S. or to U.S. persons absent registration or an applicable exemption from the registration requirements.

Hong Kong SAR: This report is distributed in Hong Kong SAR by Mirae Asset Securities (HK) Limited, which is regulated by the Hong Kong Securities and Futures Commission. The contents of this report have not been reviewed by any regulatory authority in Hong Kong SAR. This report is for distribution only to professional investors within the meaning of Part I of Schedule 1 to the Securities and Futures Ordinance of Hong Kong SAR (Cap. 571, Laws of Hong Kong SAR) and any rules made thereunder and may not be redistributed in whole or in part in Hong Kong SAR to any person.

India: This report is being distributed by Mirae Asset Capital Markets (India) Private Limited ("MACM") in India to the customers based in India and is personal information only for those authorised recipient(s). MACM is inter alia a Securities and Exchange Board of India ("SEBI") registered Research Analyst in India and is not registered outside India. MACM and Mirae Asset, Korea are group entities. MACM makes no guarantee, representation or warranty, express or implied, as to the fairness, accuracy, completeness or correctness of the information and opinions contained herein. The user assumes the entire risk of any use made of this information. This report has been provided for assistance only and is not intended to be and must not alone be taken as the basis for an investment decision. Recipient must read the entire Appendix 1 to the report carefully for Important Disclosures & Disclaimers.

All other jurisdictions: Customers in all other countries who wish to effect a transaction in any securities referenced in this report should contact Mirae Asset Securities or its affiliates only if distribution to or use by such customer of this report would not violate applicable laws and regulations and not subject Mirae Asset Securities and its affiliates to any registration or licensing requirement within such jurisdiction.

Mirae Asset Securities International Network

Mirae Asset Securities Co., Ltd. (Seoul) One-Asia Equity Sales Team Mirae Asset Center 1 Building 26 Eulji-ro 5-gil, Jung-gu, Seoul 04539 Korea Tel: 82-2-3774-2124	Mirae Asset Securities (HK) Ltd. Units 8501, 8507-8508, 85/F International Commerce Centre 1 Austin Road West Kowloon Hong Kong SAR Tel: 852-2845-6332	Mirae Asset Securities (UK) Ltd. 41st Floor, Tower 42 25 Old Broad Street, London EC2N 1HQ United Kingdom Tel: 44-20-7982-8000
Mirae Asset Securities (USA) Inc. 810 Seventh Avenue, 37th Floor New York, NY 10019 USA Tel: 1-212-407-1000	Mirae Asset Wealth Management (Brazil) CCTVM Rua Funchal, 418, 18th Floor, E-Tower Building Vila Olimpia Sao Paulo - SP 04551-060 Brazil Tel: 55-11-2789-2100	PT. Mirae Asset Sekuritas Indonesia District 8, Treasury Tower Building Lt. 50 Sudirman Central Business District Jl. Jend. Sudirman, Kav. 52-54 Jakarta Selatan 12190 Indonesia Tel: 62-21-5088-7000
Mirae Asset Securities (Singapore) Pte. Ltd. 6 Battery Road, #11-01 Singapore 049909 Republic of Singapore Tel: 65-6671-9845	Mirae Asset Securities (Vietnam) LLC 7F, Saigon Royal Building 91 Pasteur St. District 1, Ben Nghe Ward, Ho Chi Minh City Vietnam Tel: 84-8-3911-0633 (ext.110)	Mirae Asset Securities Mongolia UTsK LLC #406, Blue Sky Tower, Peace Avenue 17 1 Khoroo, Sukhbaatar District Ulaanbaatar 14240 Mongolia Tel: 976-7011-0806
Mirae Asset Investment Advisory (Beijing) Co., Ltd 2401B, 24th Floor, East Tower, Twin Towers B12 Jianguomenwai Avenue, Chaoyang District Beijing 100022 China Tel: 86-10-6567-9699	Beijing Representative Office 2401A, 24th Floor, East Tower, Twin Towers B12 Jianguomenwai Avenue, Chaoyang District Beijing 100022 China Tel: 86-10-6567-9699 (ext. 3300)	Shanghai Representative Office 38T31, 38F, Shanghai World Financial Center 100 Century Avenue, Pudong New Area Shanghai 200120 China Tel: 86-21-5013-6392
Ho Chi Minh Representative Office 7F, Saigon Royal Building 91 Pasteur St. District 1, Ben Nghe Ward, Ho Chi Minh City Vietnam Tel: 84-8-3910-7715	Mirae Asset Capital Markets (India) Pvt Ltd 1st Floor, Tower 4, Equinox Business Park, LBS Marg, Off BKC, Kurla (West), Mumbai - 400 070 India Tel: 91-22-62661300 / 48821300	