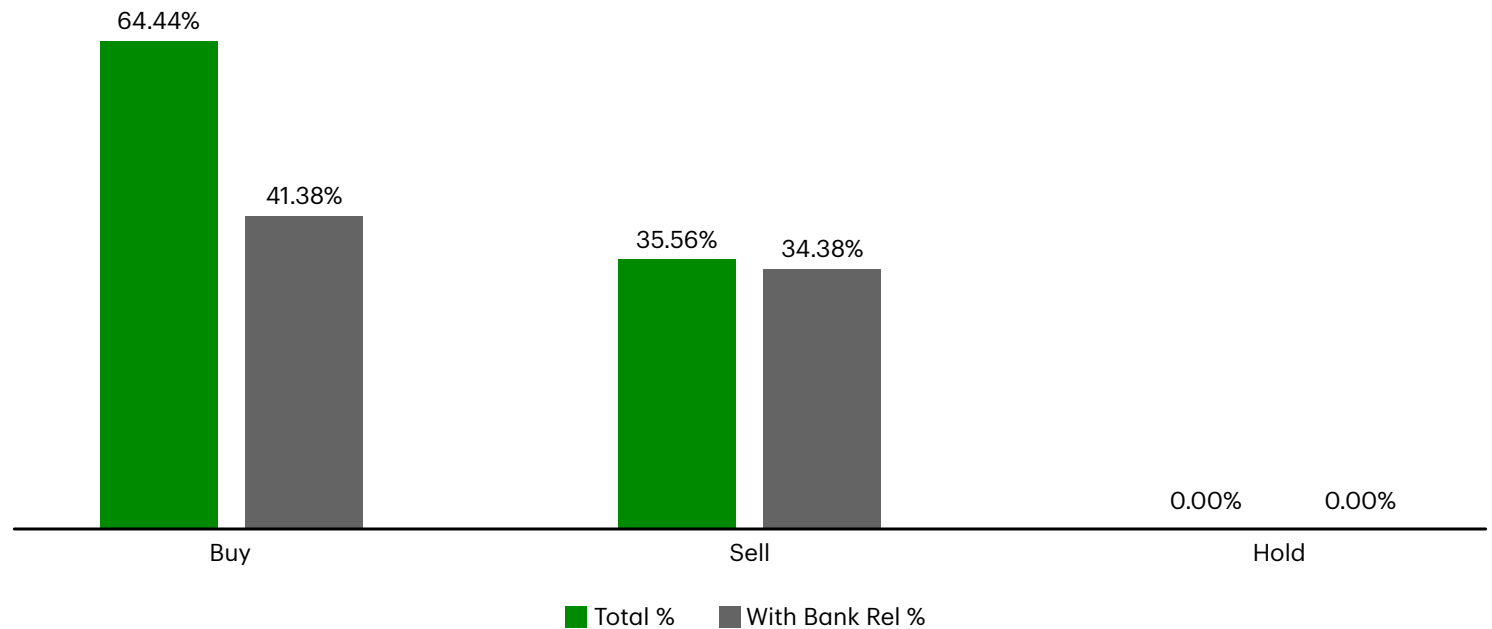


Europe

Q4 Investment Recommendations

Distribution of ratings/investment banking relationships



Date of Dissemination	Employee Name	Instrument ID	Issuer	Direction	EndDate
10/2/2023	JEAN-SEBASTIEN CHAPUT	TD 0.1 07/19/27 28 Corp	TORONTO-DOMINION BANK	buy	10/2/2023
10/2/2023	JEAN-SEBASTIEN CHAPUT	TD 0% 01/18/2027 REGS Corp	TORONTO-DOMINION BANK	sell	10/2/2023
10/2/2023	BERYL VIKA	KFW 2% 06/07/2033 REGS Corp	KFW	sell	10/2/2023
10/2/2023	BERYL VIKA	EIB 3 07/15/2033 REGS Corp	EUROPEAN INVESTMENT BANK	buy	10/2/2023
10/2/2023	ROBERT ANDERSON	ESM 4% 09/14/2026 REGS Corp	EUROPEAN STABILITY MECHANISM	sell	10/2/2023
10/2/2023	ROBERT ANDERSON	KFW 4% 08/07/2026 Corp	KFW	buy	10/2/2023
10/2/2023	BERYL VIKA	ESM 4% 09/14/2026 REGS Corp	EUROPEAN STABILITY MECHANISM	sell	10/2/2023
10/2/2023	BERYL VIKA	KFW 4% 08/07/2026 Corp	KFW	buy	10/2/2023
10/2/2023	ALEXANDER TIMMIS	EIB 3 07/15/33 EARN Corp	EUROPEAN INVESTMENT BANK	buy	10/2/2023
10/2/2023	DANIELE OCCHETTI	KFW 2% 06/07/2033 REGS Corp	KFW	buy	10/2/2023
10/2/2023	DANIELE OCCHETTI	EIB 3 07/15/2033 REGS Corp	EUROPEAN INVESTMENT BANK	sell	10/2/2023
10/2/2023	JEAN-SEBASTIEN CHAPUT	EIB 3 07/15/33 EARN Corp	EUROPEAN INVESTMENT BANK	buy	10/2/2023
10/2/2023	JEAN-SEBASTIEN CHAPUT	KFW 2% 06/07/2033 REGS Corp	KFW	sell	10/2/2023
10/2/2023	JORDAN MUNGOVAN	KFW 2% 06/07/2033 REGS Corp	KFW	sell	10/9/2023
10/2/2023	JORDAN MUNGOVAN	EIB 3 07/15/2033 REGS Corp	EUROPEAN INVESTMENT BANK	buy	10/9/2023
10/2/2023	KIERAN HENNESSY	EFSF 0 07/20/2026 REGS Corp	EUROPEAN FINANCIAL STABILITY FACILITY	buy	10/2/2023
10/2/2023	KIERAN HENNESSY	XS2390861362	LANDWIRTSCH. RENTENBANK	sell	10/2/2023
10/2/2023	ANNA BERNDT	TD 0.1 07/19/2027 REGS Corp	TORONTO-DOMINION BANK	buy	10/3/2023

Date of Dissemination	Employee Name	Instrument ID	Issuer	Direction	EndDate
10/2/2023	ROBERT ANDERSON	RENTEN 1 02/25/2028 REGS Corp	LANDWIRTSCH. RENTENBANK	sell	10/2/2023
10/2/2023	ROBERT ANDERSON	KFW 3% 06/15/2028 Corp	KFW	buy	10/2/2023
10/2/2023	JEAN-SEBASTIEN CHAPUT	EIB 3 07/15/33 EARN Corp	EUROPEAN INVESTMENT BANK	buy	10/2/2023
10/3/2023	ALEXANDER TIMMIS	BRCOL 4.2 07/33 Govt	BRITISH COLUMBIA	buy	10/3/2023
10/3/2023	KIERAN HENNESSY	IDAWBG 0 07/15/2031 REGS Corp	INTERNATIONAL DEVELOPMENT ASSOCIATION	buy	10/3/2023
10/3/2023	KIERAN HENNESSY	IBRD 0.01 04/24/2028 Corp	INTL BK RECON & DEVELOP	sell	10/3/2023
10/4/2023	ALEXANDER TIMMIS	IBRD 0.75 11/27 Corp	INTL BK RECON & DEVELOP	buy	10/4/2023
10/5/2023	ALEXANDER TIMMIS	AFLBNK Govt	AGENCE FRANCE LOCALE	buy	10/5/2023
10/5/2023	JEAN-SEBASTIEN CHAPUT	AFLBNK 0.131 06/20/2029 Govt	AGENCE FRANCE LOCALE	buy	10/5/2023
10/9/2023	JEAN-SEBASTIEN CHAPUT	TEMASE 3½ 02/15/2033 REGS Corp	TEMASEK HOLDINGS	buy	10/9/2023
10/9/2023	ALEXANDER TIMMIS	EIB 3 07/15/33 EARN Corp	EUROPEAN INVESTMENT BANK	buy	10/9/2023
10/10/2023	ALEXANDER TIMMIS	BKIR 1.875 06/26 Corp	INTERNATIONAL DEVELOPMENT ASSOCIATION	buy	10/10/2023
10/10/2023	ALEXANDER TIMMIS	TD 0½ 01/27 Corp	TORONTO-DOMINION BANK	buy	10/10/2023
10/10/2023	ALEXANDER TIMMIS	EFSF Corp	EUROPEAN FINANCIAL STABILITY FACILITY	buy	10/10/2023
10/10/2023	ALEXANDER TIMMIS	EIB 3 07/15/33 EARN Corp	EUROPEAN INVESTMENT BANK	buy	10/10/2023
10/10/2023	ALEXANDER TIMMIS	WFC 1.338 05/25 Corp	WELLS FARGO & COMPANY	buy	10/10/2023
10/12/2023	ALEXANDER TIMMIS	RAGB 2.4 05/23/2034 144A Govt	REPUBLIC OF AUSTRIA	buy	10/12/2023
10/12/2023	BERYL VIKA	RAGB 2.4 05/23/2034 144A Govt	REPUBLIC OF AUSTRIA	buy	10/12/2023
10/12/2023	ALEXANDER TIMMIS	BNG 3 01/11/2033 REGS Govt	BNG BANK NV	sell	10/12/2023
10/12/2023	ALEXANDER TIMMIS	BNG 3¼ 08/29/2033 REGS Govt	BNG BANK NV	buy	10/12/2023
10/12/2023	BERYL VIKA	BNG 3¼ 08/29/2033 REGS Govt	BNG BANK NV	buy	10/12/2023
10/12/2023	BERYL VIKA	BNG 3 01/11/2033 REGS Govt	BNG BANK NV	sell	10/12/2023
10/12/2023	KIERAN HENNESSY	EIB 3 07/15/2033 REGS Corp	EUROPEAN INVESTMENT BANK	sell	10/12/2023
10/12/2023	KIERAN HENNESSY	EIB 3 11/15/2028 REGS Corp	EUROPEAN INVESTMENT BANK	buy	10/12/2023
10/12/2023	KIERAN HENNESSY	KFW 2% 06/07/2033 REGS Corp	KFW	buy	10/12/2023
10/12/2023	KIERAN HENNESSY	KFW 3% 10/10/2028 REGS Corp	KFW	sell	10/12/2023
10/12/2023	KIERAN HENNESSY	BNG 3¼ 08/29/2033 REGS Govt	BNG BANK NV	buy	10/12/2023
10/12/2023	KIERAN HENNESSY	BNG 3 01/11/2033 REGS Govt	BNG BANK NV	sell	10/12/2023
10/12/2023	JEAN-SEBASTIEN CHAPUT	BNG 3.25 08/29/33 EMTN Corp	BNG BANK NV	buy	10/12/2023
10/12/2023	JEAN-SEBASTIEN CHAPUT	BNG 3.25 08/29/33 EMTN Corp	BNG BANK NV	buy	10/12/2023
10/12/2023	JEAN-SEBASTIEN CHAPUT	BNG 3 01/11/2033 REGS Govt	BNG BANK NV	sell	10/12/2023
10/17/2023	BERYL VIKA	NEDWBK 0% 01/18/2027 REGS Govt	NEDERLANDSE WATERSCHAPSBANK	sell	10/17/2023
10/17/2023	BERYL VIKA	BNG 0 08/31/2028 REGS Govt	BNG BANK NV	buy	10/17/2023
10/18/2023	BERYL VIKA	IBRD 2½ 03/29/2032 Corp	INTL BK RECON & DEVELOP	sell	10/18/2023
10/18/2023	BERYL VIKA	ASIA 4 01/12/2033 Corp	ASIAN DEVELOPMENT BANK	buy	10/18/2023
10/20/2023	ALESSIO MANSILLA	EDC 0 01/27/25 EMTN Corp	EXPORT DEVELOPMENT CANADA	buy	10/20/2023
10/24/2023	BERYL VIKA	CPPIBC 0% 02/02/2037 REGS Govt	CPP INVESTMENT BOARD	sell	10/24/2023
10/27/2023	ALESSIO MANSILLA	COF 1.65 06/12/2029 Corp	CAPITAL ONE FINANCIAL CO	buy	10/27/2023
10/31/2023	BERYL VIKA	BPCEGP 6.714 10/19/2029 REGS Corp	BPCE SA	buy	10/31/2023
10/31/2023	JEAN-SEBASTIEN CHAPUT	BPCEGP V6.714 10/19/29 REGS Corp	BPCE SA	buy	10/31/2023
10/31/2023	ALESSIO MANSILLA	CABKSM V4.625 05/16/27 EMTN Corp	CAIXABANK SA	buy	10/31/2023
11/2/2023	ALEXANDER TIMMIS	Q 0% 05/04/2027 REGS Govt	PROVINCE OF QUEBEC	sell	11/2/2023
11/2/2023	ALEXANDER TIMMIS	DBJJP 4% 11/26/2027 Govt	DEVELOPMENT BANK OF JAPAN	buy	11/2/2023
11/8/2023	JEAN-SEBASTIEN CHAPUT	Q 0.875 05/04/27 Govt	PROVINCE OF QUEBEC	buy	11/8/2023
11/8/2023	ALEXANDER TIMMIS	Q 0% 05/04/2027 REGS Govt	PROVINCE OF QUEBEC	buy	11/8/2023
11/16/2023	JEAN-SEBASTIEN CHAPUT	EU 2% 02/04/2033 REGS Corp	EUROPEAN UNION	buy	11/16/2023
11/16/2023	JEAN-SEBASTIEN CHAPUT	EIB 0.01 11/15/2035 REGS Corp	EUROPEAN INVESTMENT BANK	sell	11/16/2023

Date of Dissemination	Employee Name	Instrument ID	Issuer	Direction	EndDate
11/16/2023	KIERAN HENNESSY	EIB 0.01 11/15/2035 REGS Corp	EUROPEAN INVESTMENT BANK	buy	11/16/2023
11/16/2023	KIERAN HENNESSY	EU 2.75 02/04/33 NGEU Govt	EUROPEAN UNION	sell	11/16/2023
11/20/2023	ALESSIO MANSILLA	CABKSM V4.625 05/16/27 EMTN Corp	CAIXABANK SA	buy	11/20/2023
11/21/2023	KIERAN HENNESSY	KUNTA 0¼ 02/25/2032 REGS Govt	KUNTA	buy	11/21/2023
11/21/2023	KIERAN HENNESSY	EIB 0¼ 01/20/2032 REGS Corp	EUROPEAN INVESTMENT BANK	sell	11/21/2023
11/27/2023	ALEXANDER TIMMIS	KFW 2½ 06/07/2033 REGS Corp	KFW	sell	11/27/2023
11/27/2023	ALEXANDER TIMMIS	EIB 3 07/15/2033 REGS Corp	EUROPEAN INVESTMENT BANK	buy	11/27/2023
11/27/2023	ANNA BERNDT	KFW 2½ 06/07/2033 REGS Corp	KFW	sell	11/27/2023
11/27/2023	ANNA BERNDT	EIB 3 07/15/2033 REGS Corp	EUROPEAN INVESTMENT BANK	buy	11/27/2023
11/27/2023	ALESSIO MANSILLA	KFW 2.875 06/07/2033	KFW	sell	11/27/2023
11/27/2023	ALESSIO MANSILLA	EIB 3 07/15/2033 REGS Corp	EUROPEAN INVESTMENT BANK	buy	11/27/2023
12/1/2023	ALESSIO MANSILLA	CADES 1.375 11/25/24 EMTN Corp	CAISSE D'AMORT DETTE SOC	buy	12/1/2023
12/1/2023	ALESSIO MANSILLA	CADES 1.375 11/25/24 EMTN Corp	CAISSE D'AMORT DETTE SOC	buy	12/1/2023
12/4/2023	ANNA BERNDT	KUNTA 0¼ 02/25/2032 REGS Govt	KUNTA	buy	12/4/2023
12/7/2023	JEAN-SEBASTIEN CHAPUT	ISPIM 7.2 11/28/2033 REGS Corp	INTESA SANPAOLO SPA	buy	12/7/2023
12/8/2023	ALEXANDER TIMMIS	CADES 1½ 11/25/2024 REGS Govt	CAISSE D'AMORT DETTE SOC	buy	12/8/2023
12/8/2023	ALEXANDER TIMMIS	CADES 4 12/15/2025 REGS Govt	CAISSE D'AMORT DETTE SOC	sell	12/8/2023
12/8/2023	ALEXANDER TIMMIS	KFW 0.01 03/31/2025 REGS Corp	KFW	sell	12/8/2023
12/8/2023	JEAN-SEBASTIEN CHAPUT	CADES 1½ 11/25/2024 REGS Govt	CAISSE D'AMORT DETTE SOC	buy	12/8/2023
12/8/2023	JEAN-SEBASTIEN CHAPUT	CADES 4 12/15/2025 REGS Govt	CAISSE D'AMORT DETTE SOC	sell	12/8/2023
12/8/2023	JEAN-SEBASTIEN CHAPUT	KFW 0.01 03/31/2025 REGS Corp	KFW	sell	12/8/2023
12/8/2023	EOGHAN DOHERTY	CADES 1½ 11/25/2024 REGS Govt	CAISSE D'AMORT DETTE SOC	buy	12/8/2023
12/8/2023	EOGHAN DOHERTY	CADES 4 12/15/2025 REGS Govt	CAISSE D'AMORT DETTE SOC	sell	12/8/2023
12/8/2023	EOGHAN DOHERTY	KFW 0.01 03/31/2025 REGS Corp	KFW	sell	12/8/2023
12/12/2023	ALESSIO MANSILLA	CADES 1.375 11/25/24 EMTN Corp	CAISSE D'AMORT DETTE SOC	buy	12/12/2023