

California Resources Corporation

The end of an Aera: CRC restores legacy scale & options for the investment case

Reiterate Rating: NEUTRAL | PO: 64.00 USD | Price: 53.22 USD

Aera provides options for the investment case

This morning CRC announced the agreed acquisition of fellow CA operator, Aera Energy, in an all-stock deal (21.2 million shares) plus debt that values the enterprise at \$2.1bn. We like it on compelling industrial logic: including synergies and a conservative base that assumes no improvement on permitting on the acquired assets, we see the deal accretive by ~\$4/sh. An upside case that assumes permitting resumes at a pace where Aera can stabilize production, the accretion doubles. Additionally, we believe that with its larger scale there is greater potential to monetize overlooked parts of CRC's land position. However, until such times as permit resolution is resolved on the Aera assets we include only the blow down value and full recognition of synergies in our assessed value, which moves up from \$60/sh to \$64/sh. Our rating is unchanged at Neutral.

Deal adds at least \$4-8/sh to value

In our view CRC secured an attractively priced deal: 2.6x 2024 EBITDA, increasing 2024 FcF by 45% noting the deal was announced in advance of a major court ruling that will shape the ability of the industry to secure oil and gas drilling permits that had been the rationale for our Neutral rating. By our analysis, Aera's producing assets and associated developed reserves (pdp) are reasonably valued at \$1.4bn at \$75 Brent. But that's before synergies, expected at \$150mn annually, with a PV10 of \$1.0bn, suggesting an all-in valuation of \$2.4bn. This was quickly recognized by the market on the day, with the shares appreciating by \$6. The scenario where Aera maintains its output is now the upside case. Per management the constraint isn't resource, its permitting – we believe the asset can support a 10- year plateau, supporting a valuation of \$2.8bn.

Aera amplifies CRC's exposure to a favorable EIR ruling

Pro-forma production doubles and brings rate of change to a stagnant investment case in the form of cost efficiencies. We see strong industrial logic from combining the two CA producers with overlapping assets, supporting confidence in management's synergy target (\$150mn). CA concentration may attract some attention, but merging two small oil companies in a global oil market may not warrant scrutiny by the FTC. In summary Aera frames CRC as a coiled spring on the Kern EIR ruling adding to option value led by the remediation of Huntington Beach for residential development (\$10/sh).

Estimates (Dec) (US\$)	2021A	2022A	2023E	2024E	2025E
EPS	0.88	4.95	5.46	5.26	5.66
GAAP EPS	7.55	6.75	6.47	5.26	5.66
EPS Change (YoY)	-97.1%	462.5%	10.3%	-3.7%	7.6%
Consensus EPS (Bloomberg)			5.20	5.58	5.64
DPS	0.17	0.68	1.16	1.24	1.24
Valuation (Dec)					
P/E	60.5x	10.8x	9.7x	10.1x	9.4x
GAAP P/E	7.0x	7.9x	8.2x	10.1x	9.4x
Dividend Yield	0.3%	1.3%	2.2%	2.3%	2.3%
EV / EBITDA*	2.9x	3.4x	3.5x	4.1x	4.0x
Free Cash Flow Yield*	12.7%	8.5%	12.4%	5.1%	4.8%

* For full definitions of *IQmethod*SM measures, see page 9.

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Refer to important disclosures on page 10 to 12. Analyst Certification on page 8. Price Objective Basis/Risk on page 8.

12657041

Timestamp: 08 February 2024 06:56AM EST

08 February 2024

Equity

Key Changes

(US\$)	Previous	Current
Price Obj.	60.00	64.00

Kalei Akamine
Research Analyst
BofAS
+1 713 247 7880
kalei.akamine@bofa.com

Doug Leggate
Research Analyst
BofAS
+1 713 247 6013
doug.leggate@bofa.com

Noah Hungness
Research Analyst
BofAS
+1 832 341 5807
noah.hungness@bofa.com

Stock Data

Price	53.22 USD
Price Objective	64.00 USD
Date Established	8-Feb-2024
Investment Opinion	C-2-7
52-Week Range	34.02 USD - 58.44 USD
Mkt Val (mn) / Shares Out (mn)	3,672 USD / 69.0
Free Float	97.8%
Average Daily Value (mn)	31.48 USD
BofA Ticker / Exchange	CRC / NYS
Bloomberg / Reuters	CRC US / CRC.N
ROE (2023E)	17.8%
Net Dbt to Eqty (Dec-2022A)	15.3%
ESGMeter™	High

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to ["BofA ESGMeter Methodology"](#).

EIR – Environmental Impact Report
FTC – federal trade commission
CA – California
SJV – San Joaquin Valley
PV10- present value at 10% disc.
CMB / CCUS – carbon capture and storage

iQprofileSM California Resources Corporation

iQmethodSM – Bus Performance*

(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Return on Capital Employed	7.1%	18.4%	15.9%	12.1%	12.6%
Return on Equity	4.9%	20.8%	17.8%	14.0%	14.6%
Operating Margin	13.3%	28.5%	30.1%	29.9%	29.7%
Free Cash Flow	466	311	455	186	175

iQmethodSM – Quality of Earnings*

(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Cash Realization Ratio	9.0x	1.8x	1.7x	1.6x	1.6x
Asset Replacement Ratio	0.9x	1.9x	0.9x	1.8x	2.0x
Tax Rate	NM	31.1%	22.3%	19.7%	19.2%
Net Debt-to-Equity Ratio	15.5%	15.3%	5.6%	9.4%	13.2%
Interest Cover	5.0x	15.3x	11.3x	9.7x	10.3x

Income Statement Data (Dec)

(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Sales	2,048	2,643	2,126	1,645	1,759
% Change	54.1%	29.1%	-19.6%	-22.6%	6.9%
Gross Profit	1,157	1,922	1,795	1,358	1,404
% Change	23.9%	66.1%	-6.6%	-24.3%	3.3%
EBITDA	1,332	1,109	1,085	926	962
% Change	56.5%	-16.7%	-2.2%	-14.6%	3.9%
Net Interest & Other Income	(43)	(51)	(58)	(51)	(51)
Net Income (Adjusted)	73	384	387	354	381
% Change	-95.9%	426.0%	0.7%	-8.4%	7.6%

Free Cash Flow Data (Dec)

(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Net Income from Cont Operations (GAAP)	625	524	458	354	381
Depreciation & Amortization	213	198	220	211	214
Change in Working Capital	(107)	(57)	(50)	0	0
Deferred Taxation Charge	0	226	(14)	0	0
Other Adjustments, Net	(71)	(201)	30	0	0
Capital Expenditure	(194)	(379)	(189)	(380)	(420)
Free Cash Flow	466	311	455	186	175
% Change	689.8%	-33.3%	46.2%	-59.2%	-5.7%
Share / Issue Repurchase	(148)	(312)	(252)	(200)	(200)
Cost of Dividends Paid	0	(59)	(81)	(85)	(85)
Change in Debt	1	0	0	0	0

Balance Sheet Data (Dec)

(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Cash & Equivalents	305	307	449	350	239
Trade Receivables	245	326	249	249	249
Other Current Assets	203	231	246	246	246
Property, Plant & Equipment	2,599	2,786	2,744	2,913	3,119
Other Non-Current Assets	494	317	264	264	264
Total Assets	3,846	3,967	3,952	4,021	4,117
Short-Term Debt	0	0	0	0	0
Other Current Liabilities	854	894	717	717	717
Long-Term Debt	589	592	589	589	589
Other Non-Current Liabilities	567	617	158	158	158
Total Liabilities	2,010	2,103	1,464	1,464	1,464
Total Equity	1,836	1,864	2,489	2,558	2,654
Total Equity & Liabilities	3,846	3,967	3,952	4,021	4,117

* For full definitions of iQmethodSM measures, see page 9.

Company Sector

Oil & Gas Producers

Company Description

California Resources Corporation is a spin off from Occidental Petroleum Co, and is an oil and gas exploration and production company. Assets are located across California with approximately 60% of the production mix skewed towards oil. Activity going forward will focus on high return steam and water flood assets though carbon capture represents a longer-term opportunity.

Investment Rationale

CRC's plans to realign the corporate structure aims to attract better recognition of value for two discrete businesses and positions CRC as a break up story, where the first step is a monetization of Huntington Beach assets, followed by cost cuts, that are catalysts that differentiate CRC from peers but upside is limited. Neutral

Stock Data

Average Daily Volume 591,414

Quarterly Earnings Estimates

	2022	2023
Q1	1.16A	2.63A
Q2	1.13A	0.52A
Q3	1.45A	1.08A
Q4	1.24A	1.21E

End of an A(era)

Solid logic, expands options for the investment case

Before market open CRC announced an agreement to buy Aera Energy for \$2.1bn (inclusive of \$1.1bn in liabilities but excluding \$240mm in mark to market hedge impact). The industrial logic is compelling given neighboring acreage positions in Kern County. Expected synergies of \$150mm annually are material to the cost of the deal, with an NPV management suggest is \$1bn over 10 years. By our analysis, on the basis of a simple blow down of the PdP value of Aera production, the accretion in value achieved with full delivery of the projected synergies is ~\$2.46bn. Net of \$1.1bn of acquired net debt and \$1bn of issued equity, the net value is reasonably ~\$363mm or ~\$4/sh.

Beyond the regulatory risk, CRC is embedded with (now) four options in addition to oil leverage. A structurally tight California gas market with growing competition for molecules from Costa Azul in Mexico, an embryonic CCUS business but where much of the funding has been derisked by a credible joint venture partner in Brookfield (\$9/sh), and Huntington Beach real estate value (\$10/sh), and now the potential to recognize an operating scenario for Aera should the court case be decided favorably.

In the section below we walk through two valuation scenarios, concluding that the PDP is worth \$4/sh at \$75 Brent, and that the maintenance case is conservatively worth \$8/sh. However, until such times as permit resolution is resolved on the Aera assets which have been in decline for several years, we include only the blow down value and full recognition of synergies in our assessed value, which moves up from \$60/sh to \$64/sh. Our rating is unchanged at Neutral.

Exhibit 1: PO raised from \$60 to \$64 to reflect the PDP value of Area

Upside remains modest at 20% following quick recognition of value by the market on the day of announcement

Discount Rate	10.0%	4Q23	2024	2025	2026	2027	2028	2029	2030	2031
Debt Adjusted Cash Flow		140	602	632	663	679	706	740	781	781
Capital Expenditures		(33)	(380)	(420)	(420)	(420)	(420)	(420)	(420)	(420)
Other (+/-)		-	-	-	-	-	-	-	-	-
Free Cash Flow		107	222	212	243	259	286	320	361	361
		-	-	-	-	-	-	-	-	-
Present Value (2023-2026)		664	-	-	-	-	-	-	-	-
Terminal Value (2027-2060)		2,260	-	-	-	-	-	-	-	-
Total PV		2,924	-	-	-	-	-	-	-	-
Less: Net Debt		110	-	-	-	-	-	-	-	-
Adjustment 1:		599	-	-	-	-	-	-	-	-
Adjustment 2:		700	-	-	-	-	-	-	-	-
Aera Valuation		2,400	-	-	-	-	-	-	-	-
Aera price		2,100	-	-	-	-	-	-	-	-
Net Aera Valuation		300	-	-	-	-	-	-	-	-
Equity Value		4,413	-	-	-	-	-	-	-	-
Shares Outstanding		68.6	-	-	-	-	-	-	-	-
Per Share		\$64.3	-	-	-	-	-	-	-	-

Source: BofA Global Research Estimates.

BofA GLOBAL RESEARCH

Transaction details

Before market open CRC announced an agreement to buy Aera Energy for \$2.1bn (inclusive of \$1.1bn in liabilities but excluding \$240mm in mark to market hedge impacts). The industrial logic is compelling given neighboring acreage positions in Kern County. Expected synergies of \$150mm annually are material to the cost of the deal, with an NPV managements suggest is \$1bn over 10 years. By our analysis, on the basis of a simple blow down of the PdP value of Aera production, the accretion in value achieved with full delivery of the projected synergies is ~\$2.46bn.

Net of \$1.1bn of acquired net debt and \$1bn of issued equity, the net value is reasonably ~\$363mm or ~\$4/sh on the new diluted share count of ~89.8mm shares.



Based on the share price move on the day, we believe the market has already fully discounted the base case, leaving our rating at Neutral.

Exhibit 2: We estimate the value of the PDP wedge at \$4/sh

Shares priced in the value of the PDP on the day of the announcement, as CRC traded up \$6/sh

Aera Valuation

NPV	1,703
Synergies	1,000
Hedge Book	(240)

	2,463				2100	363	\$4/sh													
Date	Production				Price Deck			(\$26.00)	8.50%		(\$8.00)		26%							
	Oil	Gas	Boe	Decline	Brent	SoCal	Revenue	Opex	Prod Tax	SG&A	DD&A	EBT	Tax	Net Income	EBITDA	Cash Flow	Capex	FCF		
2024	65	20	68	15.00%	\$76.44	\$2.87	1,824	(645)	(155)	(200)	(199)	625	(162)	462	823	661	(105)	556		
2025	55	17	58	14.25%	\$73.50	\$4.50	1,515	(553)	(129)	(200)	(170)	462	(120)	342	633	512	(105)	407		
2026	48	15	50	13.54%	\$73.50	\$4.50	1,310	(478)	(111)	(200)	(147)	373	(97)	276	520	423	(105)	318		
2027	42	13	44	12.86%	\$73.50	\$4.50	1,141	(417)	(97)	(200)	(128)	299	(78)	221	427	350	(105)	245		
2028	37	12	39	12.22%	\$73.50	\$4.50	1,002	(366)	(85)	(200)	(113)	238	(62)	176	351	289	(105)	184		
2029	32	10	34	11.61%	\$73.50	\$4.50	886	(324)	(75)	(200)	(100)	187	(49)	139	287	238	(105)	133		
2030	29	9	30	11.03%	\$73.50	\$4.50	788	(288)	(67)	(200)	(89)	145	(38)	107	233	196	(105)	91		
2031	26	8	27	10.48%	\$73.50	\$4.50	705	(258)	(60)	(200)	(79)	108	(28)	80	188	160	(105)	55		
2032	23	7	24	9.95%	\$73.50	\$4.50	635	(232)	(54)	(200)	(71)	78	(20)	58	149	129	(105)	24		
2033	21	7	22	9.45%	\$73.50	\$4.50	575	(210)	(49)	(200)	(65)	52	(13)	38	116	103	(105)	(2)		
2034	19	6	20	8.98%	\$73.50	\$4.50	524	(191)	(44)	(150)	(59)	79	(21)	58	138	117	(80)	37		
2035	18	6	18	8.53%	\$73.50	\$4.50	479	(175)	(41)	(150)	(54)	59	(15)	44	113	98	(80)	18		
2036	16	5	17	8.11%	\$73.50	\$4.50	440	(161)	(37)	(150)	(49)	42	(11)	31	92	81	(80)	1		
2037	15	5	16	7.70%	\$73.50	\$4.50	406	(148)	(35)	(150)	(46)	28	(7)	20	73	66	(80)	(14)		
2038	14	4	14	7.32%	\$73.50	\$4.50	376	(138)	(32)	(150)	(42)	15	(4)	11	57	53	(80)	(27)		
2039	13	4	13	6.95%	\$73.50	\$4.50	350	(128)	(30)	(75)	(39)	78	(20)	58	118	97	(80)	17		
2040	12	4	13	6.60%	\$73.50	\$4.50	327	(120)	(28)	(75)	(37)	68	(18)	50	105	87	(80)	7		
2041	11	4	12	6.27%	\$73.50	\$4.50	307	(112)	(26)	(75)	(34)	59	(15)	44	94	78	(80)	(2)		
2042	11	3	11	5.96%	\$73.50	\$4.50	288	(105)	(25)	(75)	(32)	51	(13)	38	84	70	(80)	(10)		
2043	10	3	10	5.66%	\$73.50	\$4.50	272	(99)	(23)	(75)	(31)	44	(11)	33	75	63	(80)	(17)		
2044	9	3	10	5.38%	\$73.50	\$4.50	257	(94)	(22)	(25)	(29)	88	(23)	65	116	94	(55)	39		
2045	9	3	9	5.11%	\$73.50	\$4.50	244	(89)	(21)	(25)	(27)	82	(21)	61	109	88	(55)	33		
2046	8	3	9	4.85%	\$73.50	\$4.50	232	(85)	(20)	(25)	(26)	77	(20)	57	103	83	(55)	28		
2047	8	3	9	4.61%	\$73.50	\$4.50	222	(81)	(19)	(25)	(25)	72	(19)	53	97	78	(55)	23		
2048	8	2	8	4.38%	\$73.50	\$4.50	212	(77)	(18)	(25)	(24)	68	(18)	50	92	74	(55)	19		
2049	7	2	8	4.16%	\$73.50	\$4.50	203	(74)	(17)	(25)	(23)	64	(17)	47	87	70	(55)	15		
2050	7	2	8	3.95%	\$73.50	\$4.50	195	(71)	(17)	(25)	(22)	60	(16)	45	82	67	(55)	12		
2051	7	2	7	3.76%	\$73.50	\$4.50	188	(69)	(16)	(25)	(21)	57	(15)	42	78	63	(55)	8		
2052	7	2	7	3.57%	\$73.50	\$4.50	181	(66)	(15)	(25)	(20)	54	(14)	40	75	60	(55)	5		
2053	6	2	7	3.39%	\$73.50	\$4.50	175	(64)	(15)	(25)	(20)	52	(13)	38	71	58	(55)	3		
2054	6	2	7	3.22%	\$73.50	\$4.50	169	(62)	(14)	(25)	(19)	49	(13)	36	68	55	(55)	0		

Source: BofA Global Research

BofA GLOBAL RESEARCH

Key assumptions behind our blow down valuation are as follows:

- Decline rate. Management has guided to a decline rate of 10-15%. We assume 15% for the first year, then tapering as production falls, although as a conventional asset the risk is the decline rate remains higher than we have assumed. Management disclosed 262 million boe of proved reserves as of end-2022. Assuming extraction and zero replacement during 2023, our starting point for 2024 is assumed at 235 million boe. We assume that oil and gas yield aligns with the production mix that is 95% oil and 5% natural gas. In our blow down case our model produces approximately 230 million boe.
- Price deck. We assume 2024 in line with the strip, then sensitize mid-cycle oil prices from 2025 at \$70 to \$75 Brent. (\$75 Brent shown below). Note \$70 Brent is roughly in line with the tail-end of the forward curve, and \$75 Brent is BofA's mid-cycle base case. For gas we assume \$2.87 SoCal Border and \$4.50 from 2025 in line with the long-term average of the forward curve.

- Production cost. We are modeling an opex / unit estimate of \$26/bbl, slightly higher than CRC, to reflect the greater use of steam floods.
- SG&A in both cases, we hold SG&A flat through the first ten years to avoid double counting the benefit from synergies.
- Capex. In the blow down case, we assume spending on only facilities and workovers. Our stating point to understand total capex is \$600mn of D&C costs for the pro forma portfolio. We then estimate \$200mn of additional capital to account facilities and work overs, totaling \$800mn. Given the size of each companies' portfolio, we assume capital is roughly equal sized.

The upside case is more interesting – and assumes Aera would benefit from a successful conclusion of an ongoing court case that might enable easier permitting and a level of activity necessary to hold production flat.

In that case, we believe the acquired asset value would be closer to \$2.8bn, increasing the accretion in value closer to \$705mm or ~\$8 per share.

Exhibit 3: Absent of permitting constraints, we believe the Aera assets could be held flat for 10 years for \$400mn: worth \$10/sh

We see the value of the Aera portfolio at \$10/sh under an operating scenario that holds production flat for ten years, then allows for a natural decline rate

Aera Valuation																			
NPV		2,045																	
Synergies		1,000																	
Hedge Book		(240)																	
2,805																			
Date	Production				Price Deck		2100	705	\$8/sh										
	Oil	Gas	Boe	Decline	Brent	Socal	Revenue	Opex	Prod Tax	SG&A	DD&A	EBT	Tax	Net Income	EBITDA	Cash Flow	Capex	FCF	
2024	65	20	68	0.00%	\$76.44	\$2.87	1,824	(645)	(155)	(200)	(199)	625	(162)	462	823	661	(400)	261	
2025	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2026	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2027	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2028	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2029	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2030	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2031	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2032	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2033	65	20	68	0.00%	\$73.50	\$4.50	1,767	(645)	(150)	(200)	(199)	573	(149)	424	771	622	(400)	222	
2034	55	17	58	15.00%	\$73.50	\$4.50	1,502	(549)	(128)	(200)	(169)	457	(119)	338	625	507	(100)	407	
2035	47	15	50	14.25%	\$73.50	\$4.50	1,288	(470)	(109)	(200)	(145)	363	(94)	269	508	413	(100)	313	
2036	41	13	43	13.54%	\$73.50	\$4.50	1,113	(407)	(95)	(200)	(125)	287	(75)	212	412	337	(100)	237	
2037	35	11	37	12.86%	\$73.50	\$4.50	970	(354)	(82)	(200)	(109)	224	(58)	166	333	275	(100)	175	
2038	31	10	33	12.22%	\$73.50	\$4.50	852	(311)	(72)	(200)	(96)	172	(45)	128	268	223	(100)	123	
2039	28	9	29	11.61%	\$73.50	\$4.50	753	(275)	(64)	(150)	(85)	179	(47)	133	264	217	(100)	117	
2040	24	8	26	11.03%	\$73.50	\$4.50	670	(245)	(57)	(150)	(75)	143	(37)	106	218	181	(100)	81	
2041	22	7	23	10.48%	\$73.50	\$4.50	600	(219)	(51)	(150)	(67)	112	(29)	83	180	150	(100)	50	
2042	20	6	21	9.95%	\$73.50	\$4.50	540	(197)	(46)	(150)	(61)	86	(22)	64	147	124	(100)	24	
2043	18	6	19	9.45%	\$73.50	\$4.50	489	(179)	(42)	(150)	(55)	64	(17)	47	119	102	(100)	2	
2044	16	5	17	8.98%	\$73.50	\$4.50	445	(163)	(38)	(50)	(50)	145	(38)	107	195	157	(100)	57	
2045	15	5	16	8.53%	\$73.50	\$4.50	407	(149)	(35)	(50)	(46)	128	(33)	95	174	140	(100)	40	
2046	14	4	14	8.11%	\$73.50	\$4.50	374	(137)	(32)	(50)	(42)	114	(30)	84	156	126	(100)	26	
2047	13	4	13	7.70%	\$73.50	\$4.50	345	(126)	(29)	(50)	(39)	101	(26)	75	140	114	(100)	14	
2048	12	4	12	7.32%	\$73.50	\$4.50	320	(117)	(27)	(50)	(36)	90	(23)	67	126	103	(100)	3	
2049	11	3	11	6.95%	\$73.50	\$4.50	298	(109)	(25)	(25)	(33)	105	(27)	78	139	111	(100)	11	
2050	10	3	11	6.60%	\$73.50	\$4.50	278	(102)	(24)	(25)	(31)	97	(25)	71	128	103	(100)	3	
2051	10	3	10	6.27%	\$73.50	\$4.50	261	(95)	(22)	(25)	(29)	89	(23)	66	118	95	(100)	(5)	
2052	9	3	9	5.96%	\$73.50	\$4.50	245	(90)	(21)	(25)	(28)	82	(21)	61	110	88	(100)	(12)	
2053	8	3	9	5.66%	\$73.50	\$4.50	231	(84)	(20)	(25)	(26)	76	(20)	56	102	82	(100)	(18)	
2054	8	3	8	5.38%	\$73.50	\$4.50	219	(80)	(19)	(25)	(25)	71	(18)	52	95	77	(100)	(23)	

Source: BofA Global Research

BofA GLOBAL RESEARCH

In our view, the November 2022 ruling on the Kern Co Environmental Impact Report (EIR) reduced the risk of a worst-case scenario, where the accelerated permitting framework is invalidated forcing operators into a gated (re: slow) permit application



process. That ruling narrowed the scope of remedies to keep the current framework in operation, rather than calling for a complete overhaul. However, that ruling is now under appeal, with the outcome expected in 2Q24. If successful, California producers should be able to return to normal operating activities – and assuming the EIR is reinstated we believe the pro forma company will be able to stem its decline rate and maintain production.

It is worth noting that asset was sold by ExxonMobil and Shell over a period in 2021/22, when production was ~95,000 boepd. However, difficulty in receiving permits saw production declining to ~76 kboed in 3Q23.

Note that pro-forma the company is expected to have 2024 production between 145 – 150 mboed (76% oil) with a capex range of \$420 - \$470 mm that is below maintenance capex of \$600mn translating to a 8.3% decline from 3Q23 at 161 mboed (76% oil) due the ongoing permitting issues in Kern County.

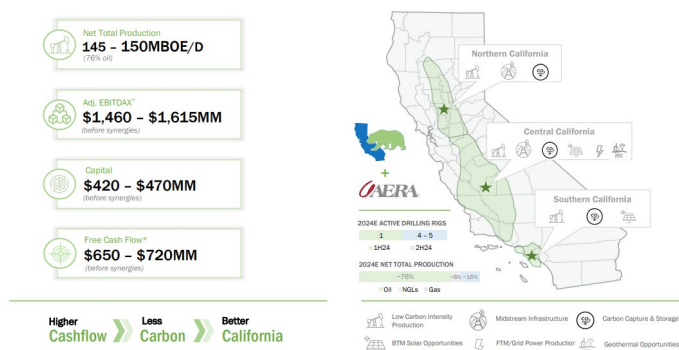
Synergies & the industrial logic of carbon management

15 months after close the company is expected to realize \$150mn in annualized synergies that is almost entirely made from operating costs and G&A but helped slightly from capex and infrastructure. Our confidence in these synergies is supported by the companies' overlapping operating positions, similar asset base, and CRC's track record of cost cutting pre-and-post bankruptcy in 2021. The company's pro-forma guidance is shown below.

Exhibit 4: Pro Forma 2024 estimates

The midpoint of production guidance implies an 8% decline from 3Q23

Pro Forma 2024 Estimates (complete guidance available at closing)



Source: Company reports

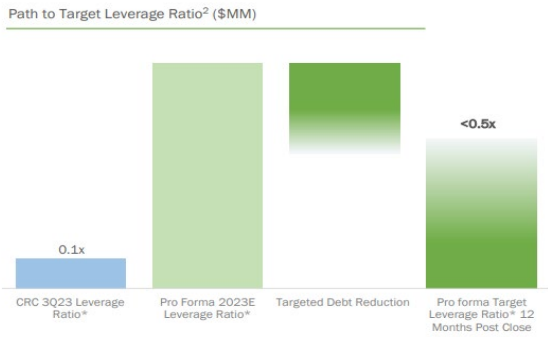
BofA GLOBAL RESEARCH

Additionally, CRC plans to refinance Aera draw on its RBL and 2nd lien that makes up most of the \$1.1bn in liabilities and underlines by CRC's commitment received for a \$500mn bridge loan facility. Moving forward we expect CRC to focus on deleveraging mainly though decreasing the bridge loan facility as the company is targeting less than 0.5x within 12 months after close.

Footnote: Carbon Management

Aera also expands CRC's CMB footprint adding 54 mmt (27mmt submitted with approval expected in 1H25 and 27 mmt to be submitted) additional pore space with half of the space adjacent to CTV's Elk Hills Clean Energy Park. Remember that CTV's first class VI draft permit has been released for public comment with the second permit for CTV I planned to be released later this year and first injection targeted by YE 2025 that is expected to coincide with the capture and storage project at the Elk Hill Gas Plant. While our valuation of the new asset is unchanged at \$600mn we do note upside risk given additional scale but see FID of future green field projects as key for the market's recognition of value.

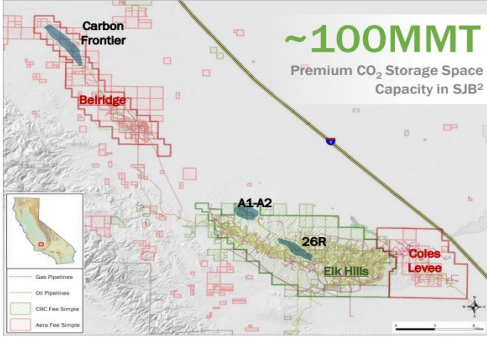
Exhibit 5: Leverage targets
Reaches below 0.5x within 12 months assumes Jan 25 strip



Source: Company reports

BofA GLOBAL RESEARCH

Exhibit 6: Carbon storage overlap
Aera adds 54mt of pore space doubles position in SJV



Source: Company reports

BofA GLOBAL RESEARCH

Price objective basis & risk

California Resources Corporation (CRC)

Our price objective of \$64/sh is based on ex growth DCF value using BofA's base case commodity view through 2024 and a Long-term (2025+) oil price assumption of \$75 Brent. We assume long-term HH natural gas of \$4.00. We apply a long-term (post-tax) weighted average cost of capital (WACC) of 9.6%, which is based on the BofA strategy team's assumed risk premium and a five-year monthly beta.

Upside risks to our PO are a higher sustaining commodity price than we have in our base case and faster than expected monetization of carbon capture/sequestration technology/acumen. Downside risks to our price objective are (1) regulatory risks in California, (2) project timing delays could impact our growth rates, and (3) as an oil leveraged company, a weak oil price environment would affect our estimates and valuation. (4) A slower than expected monetization of carbon capture/sequestration technology/acumen.

Analyst Certification

I, Kalei Akamine, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

US - Large Cap Oils Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	APA Corporation	APA	APA US	Doug Leggate
	Canadian Natural Resources	YCNQ	CNQ CN	Doug Leggate
	Canadian Natural Resources	CNQ	CNQ US	Doug Leggate
	Chesapeake Energy	CHK	CHK US	Doug Leggate
	Chevron Corp.	CVX	CVX US	Doug Leggate
	ConocoPhillips	COP	COP US	Doug Leggate
	Coterra Energy Inc	CTRA	CTRA US	Doug Leggate
	EQT Corporation	EQT	EQT US	John H. Abbott
	ExxonMobil Corp.	XOM	XOM US	Doug Leggate
	Granite Ridge Resources, Inc	GRNT	GRNT US	John H. Abbott
	Imperial Oil	IMO	IMO US	Doug Leggate
	Imperial Oil	YIMO	IMO CN	Doug Leggate
	Kimbell Royalty Partners	KRP	KRP US	John H. Abbott
	Occidental Petroleum Corp.	OXY	OXY US	Doug Leggate
	Ovintiv Inc	YOVV	OVV CN	Doug Leggate
	Ovintiv Inc	OVV	OVV US	Doug Leggate
	Range Resources Corp	RRC	RRC US	Doug Leggate
	Suncor	YSU	SU CN	Doug Leggate
	Suncor	SU	SU US	Doug Leggate
NEUTRAL				
	California Resources Corporation	CRC	CRC US	Kalei Akamine
	CNX Resources	CNX	CNX US	John H. Abbott
	Delek US Holdings, Inc.	DK	DK US	Doug Leggate
	Devon Energy Corp.	DVN	DVN US	Doug Leggate
	EOG Resources	EOG	EOG US	Doug Leggate
	Gulfport Energy Corporation	GPOR	GPOR US	Doug Leggate
	HF Sinclair Corporation	DINO	DINO US	Doug Leggate
	Marathon Petroleum Company	MPC	MPC US	Doug Leggate
	PBF Energy	PBF	PBF US	Doug Leggate
	Permian Resources Corporation	PR	PR US	Doug Leggate
	Phillips 66	PSX	PSX US	Doug Leggate
	Valero Energy Corp.	VLO	VLO US	Doug Leggate
UNDERPERFORM				
	Chord Energy Corporation	CHRD	CHRD US	John H. Abbott

US - Large Cap Oils Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Crescent Energy Company	CRGY	CRGY US	John H. Abbott
	Diamondback Energy Inc.	FANG	FANG US	Doug Leggate
	Marathon Oil Corp.	MRO	MRO US	Doug Leggate
	National Fuel Gas Company	NFG	NFG US	John H. Abbott
	Northern Oil and Gas	NOG	NOG US	John H. Abbott
	Vital Energy Inc	VTLE	VTLE US	John H. Abbott
RSTR				
	Pioneer Natural Resources	PXD	PXD US	Doug Leggate

iQmethodSM Measures Definitions**Business Performance**

Return On Capital Employed

Return On Equity
Operating Margin
Earnings Growth
Free Cash Flow

Quality of Earnings

Cash Realization Ratio
Asset Replacement Ratio
Tax Rate
Net Debt-To-Equity Ratio
Interest Cover

Valuation Toolkit

Price / Earnings Ratio
Price / Book Value
Dividend Yield
Free Cash Flow Yield
Enterprise Value / Sales

EV / EBITDA

Numerator

NOPAT = (EBIT + Interest Income) × (1 – Tax Rate) + Goodwill Amortization

Net Income
Operating Profit
Expected 5 Year CAGR From Latest Actual
Cash Flow From Operations – Total Capex

Numerator

Cash Flow From Operations
Capex
Tax Charge
Net Debt = Total Debt – Cash & Equivalents
EBIT

Numerator

Current Share Price
Current Share Price
Annualised Declared Cash Dividend
Cash Flow From Operations – Total Capex
EV = Current Share Price × Current Shares + Minority Equity + Net Debt +
Other LT Liabilities
Enterprise Value

Denominator

Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill
Amortization
Shareholders' Equity
Sales
N/A
N/A

Denominator

Net Income
Depreciation
Pre-Tax Income
Total Equity
Interest Expense

Denominator

Diluted Earnings Per Share (Basis As Specified)
Shareholders' Equity / Current Basic Shares
Current Share Price
Market Cap = Current Share Price × Current Basic Shares
Sales

Basic EBIT + Depreciation + Amortization

iQmethodSM is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and valuations. The key features of iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

iQdatabase[®] is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

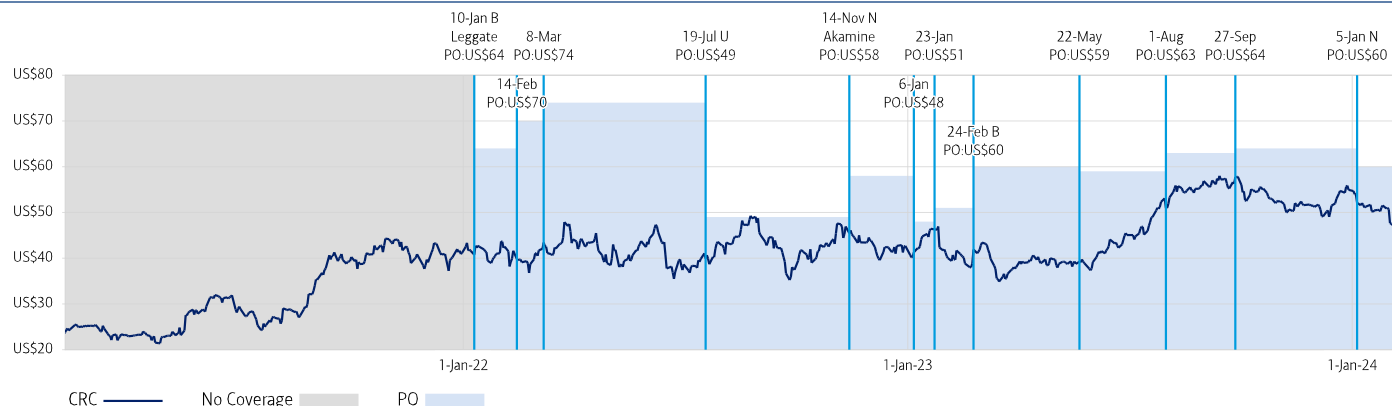
iQprofileSM, iQmethodSM are service marks of Bank of America Corporation. iQdatabase[®] is a registered service mark of Bank of America Corporation.



Disclosures

Important Disclosures

California Resources (CRC) Price Chart



The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Energy Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships ^{R1}	Count	Percent
Buy	83	61.48%	Buy	64	77.11%
Hold	28	20.74%	Hold	21	75.00%
Sell	24	17.78%	Sell	18	75.00%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships ^{R1}	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

^{R1} Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. **VOLATILITY RISK RATINGS**, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. **INVESTMENT RATINGS** reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating	Total return expectation (within 12-month period of date of initial rating)	Ratings dispersion guidelines for coverage cluster ^{R2}
Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

^{R2} Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. **Coverage Cluster** is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Price Charts for the securities referenced in this research report are available on the [Price Charts website](#), or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: California Resources.

BofAS or an affiliate has received compensation from the issuer for non-investment banking services or products within the past 12 months: California Resources.

The issuer is or was, within the last 12 months, a non-securities business client of BofAS and/or one or more of its affiliates: California Resources.

BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: California Resources.

The issuer is or was, within the last 12 months, a securities business client (non-investment banking) of BofAS and/or one or more of its affiliates: California Resources.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.



Other Important Disclosures

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments.

Refer to [BofA Global Research policies relating to conflicts of interest](#).

'BofA Securities' includes BofA Securities, Inc. ('BofAS') and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. 'BofA Securities' is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofam.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch Equities (Australia) Limited, regulated by the Australian Securities and Investments Commission; Merrill Lynch (Hong Kong): Merrill Lynch (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSCF); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch Canada Inc, regulated by the Canadian Investment Regulatory Organization; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSCF; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does not change your service provider. Please refer to the [Electronic Communications Disclaimers](#) for further information.

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities.

This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such



securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BoFA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BoFA or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BoFA or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BoFA Securities, through business units other than BoFA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BoFA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information.

In the event that the recipient received this information pursuant to a contract between the recipient and BoFA for the provision of research services for a separate fee, and in connection therewith BoFA may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BoFA has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BoFA). If such recipient uses the services of BoFA in connection with the sale or purchase of a security referred to herein, BoFA may act as principal for its own account or as agent for another person. BoFA is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

BoFA ESGMeter Methodology:

ESGMeter is a proprietary metric based on quantitative analysis and fundamental analyst inputs that reflects our assessment of a company's Environmental, Social and Governance-related attributes. The ESGMeter is intended to indicate a company's likelihood of experiencing stronger financial stability (higher return on equity and lower earnings and price volatility) over the next three years relative to peer group. There are three ESGMeter levels - Low, Medium, and High - which indicate whether a company has attributes most likely to translate into superior financial stability (in the case of a High level) or weaker financial stability (in the case of a Low level) over the next three years relative to its peer group. A Medium level suggests that a company exhibits ESG characteristics that are likely associated with financial stability results in line with its peer group over the next three years. Full details of our methodology, financial stability definition and disclaimers are available at [BoFA ESGMeter methodology](#). ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating.

ESGMeter is independent of the BoFA Global Research fundamental equity analyst's investment rating, volatility risk rating, income rating or price objective for that company.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BoFA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BoFA Securities. BoFA Global Research information is distributed simultaneously to internal and client websites and other portals by BoFA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BoFA Securities.

Materials prepared by BoFA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BoFA Securities, including investment banking personnel. BoFA Securities has established information barriers between BoFA Global Research and certain business groups. As a result, BoFA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BoFA Global Research personnel's knowledge of legal proceedings in which any BoFA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public information. Facts and views presented in this material that relate to any such proceedings have not been reviewed by, discussed with, and may not reflect information known to, professionals in other business areas of BoFA Securities in connection with the legal proceedings or matters relevant to such proceedings.

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BoFA or any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BoFA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BoFA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BoFA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BoFA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BoFA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BoFA Securities is under no obligation to update this information and BoFA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BoFA Securities will not update any fact, circumstance or opinion contained herein.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BoFA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BoFA or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BoFA Securities nor any officer or employee of BoFA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.