

Fourth Quarter & Full Year 2021 Earnings Results Call

March 9, 2022





This presentation includes forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, which provides a "safe harbor" for such statements in certain circumstances. The forward-looking statements include statements or expectations regarding net, after-tax cash flows from refined coal ("RC"); expectations of continued APT performance improvement; expectations regarding achievements of our 2022 priorities, results from the Company's review of strategic alternatives and other matters. These statements are based on current expectations, estimates, projections, beliefs and assumptions of our management. These forward-looking statements involve significant risks and uncertainties. Actual events or results could differ materially from those discussed in the forward-looking statements as a result of various factors, including but not limited to, opportunities for additional sales of our lignite activated carbon products and end-market diversification, the outcome of the review of strategic alternatives, our ability to meet customer supply requirements, the rate of coal-fired power generation in the United States, timing of new and pending regulations and any legal challenges to or extensions of compliance dates of them; the US government's failure to promulgate regulations that benefit our business; changes in laws, regulations, IRS interpretations or guidance, accounting rules, any pending court decisions, prices, economic conditions and market demand; impact of competition; availability, cost of and demand for alternative energy sources and other technologies; technical, start-up and operational difficulties; competition within the industries in which we operate; loss of key personnel; ongoing effects of the COVID-19 pandemic and associated economic downturn on our operations and prospects; as well as other factors relating to our business, as discussed in our filings with the SEC. You are cautioned not to place undue reliance on such statements and to consult our SEC filings for additional risks and uncertainties that may apply to our business and the ownership of our securities. In addition to causing our actual results to differ, the factors listed above may cause our intentions to change from those statements of intention set forth in this presentation. Such changes in our intentions may also cause our results to differ. We may change our intentions, at any time and without notice, based on changes in such factors, our assumptions, or otherwise Our forward-looking statements are presented as of the date made, and we disclaim any duty to update such statements unless required by law to do so.

FOURTH QUARTER 2021 BUSINESS SUMMARY



Advanced Purification Technologies ("APT")

- Q4 revenue was \$23.3M compared to \$16.3M
- Q4 segment operating income totaled \$0.8M compared to \$0.7M
- Q4 segment Adjusted EBITDA⁽¹⁾ of \$1.9M compared to a segment Adjusted EBITDA loss of \$2.3M
- Record revenue and production volume for the full year 2021



Refined Coal ("RC")

- Q4 distributions were \$7.3M compared to \$20.2M in 2020
- Q4 royalties were \$2.5M compared to \$3.5M
- Q4 segment operating income was \$9.1M compared to \$8.2M
- Q4 segment Adjusted EBITDA⁽¹⁾ was \$9.6M compared to \$23.5M



Consolidated Results & Capital Allocation

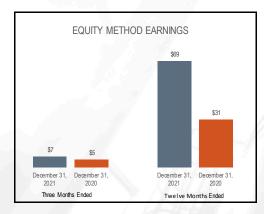
- Q4 net income of \$5.8M compared to \$0.4M
- Q4 consolidated Adjusted EBITDA (2) of \$9.1M compared to \$23.4M
- Cash, including restricted cash, of \$88.8M compared to \$35.9M as of December 31, 2020

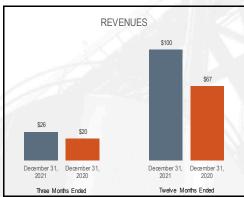


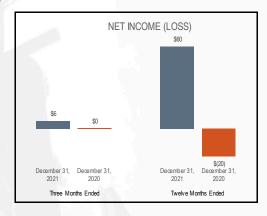
Outlook

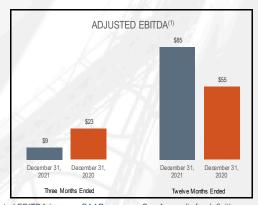
- Expect continued top-line strength in APT segment
- Margin pressures expected to persist well into 2022, though will be partially offset via price initiatives and product mix
- Net, after-tax cash flows from RC segment projected to be between \$4.0-5.0M in 1H'22
- Strategic alternatives review remains ongoing

FINANCIAL HIGHLIGHTS

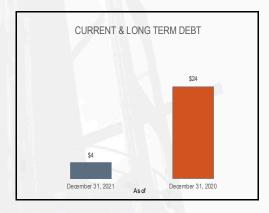












APT SEGMENT GROWTH OPPORTUNITIES

Power Generation

Currently the North American provider-of-choice in mercury removal for coal-fired power generation. We leverage our leading IP, manufacturing assets, technologies and relationships to maintain our market position. However, this market is likely to remain structurally more challenged as aggregate coal burn is expected to decline over time.

Industrial and Municipal Water

In response, we have developed a solid market position for certain Industrial applications and Municipal water – including markets that the Red River plant did not previously serve – which has diversified our product and customer mix.

Adjacent Markets

More specialized applications, offering higher margin and higher growth commercial market opportunities. The quality of Red River plant offers us the asset base to pursue these adjacent markets.



Provider of Choice

Premier provider of activated carbon and well-positioned to capitalize on emerging opportunities. Our volumes for 2021 were the highest in the history of ADA Carbon Solutions, helped by the Cabot supply agreement and demand from our power generation market, and as we are selling into a more balanced mix of commercial markets.











ENHANCE LONG-TERM PROFITABILITY IN APT SEGMENT:

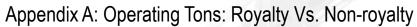
- Capitalize on highly efficient and low-cost world class manufacturing facilities
- Pursue optimal customer mix to leverage enhanced value creation through new customer contracts
- Structurally upgrade customer contracting terms to minimize headwinds from increased cost pressures stemming from inventory build and supply chain challenges
- Accelerate diversification among product and customer mix through investment in new product development
- Remain vigilant for additional rationalization opportunities and supply agreements

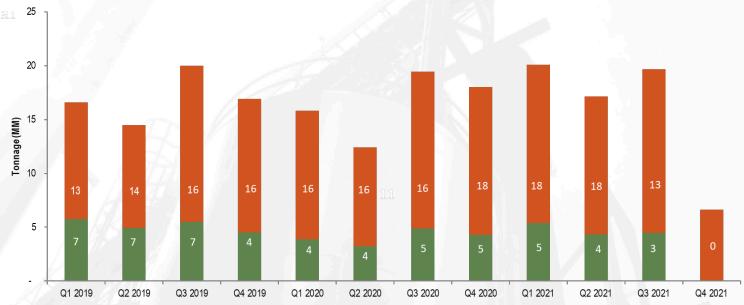


ALLOCATE CASH FLOWS & ASSETS TO DRIVE SHAREHOLDER VALUE:

- Invest in APT segment's strategic initiatives to solidify position as provider-of-choice for activated carbon
- Conclude strategic alternatives review and ensure maximization of shareholder value







Three Month Ended	Ionth Ended Operating Tons		QTD - Total
December 31, 2021	Royalty Non-Royalty		QID - Iotal
Tonnage (1)	6,639	1,083	7,722
Count (#) (2)	13	3	16

Twelve Months Ended	Operatir	YTD - Total	
December 31, 2021	Royalty	Non-Royalty	TID - Iolai
Tonnage (1)	49,307	15,292	64,599
Count (#) (2)	18	5	23

Note: Numbers within bar graph represent the number of facilities per category as of the end of each quarter presented

(1) Tonnage information is based upon RC production for the three and twelve months ended December 31, 2021 (in thousands) (2) Counts are based upon the number of facilities of which a royalty has been earned during the period

	Appendix B: 10-K Balance Sheet(1)	As of December 31,			
(in thousands, except share data)	Appendix B. To It Balance officer	2021		2020	
ASSETS					
Current assets:					
Cash, cash equivalents and restricted cast		\$	78,753	\$	30,932
Receivables, net			12,622		13,125
Receivables, related party			2,481		3,453
Inventories, net			7,850		9,882
Prepaid expenses and other current assets			6,661		4,597
Total current assets			108,367		61,989
Restricted cash, long-term			10,027		5,000
Property, plant and equipment, net of accumulated depreciation of \$7,6	84 and \$3,340, respectively		30,171		29,433
Intangible assets, net			1,237		1,964
Equity method investments			2,391		7,692
Deferred tax assets, net			—		10,604
Other long-term assets, net			33,243		29,989
Total Assets		\$	185,436	\$	146,671
LIABILITIES AND STOCKHOLDERS' EQUITY					
Current liabilities:					
Accounts payable		\$	10,009	\$	7,849
Accrued payroll and related liabilities			6,477		3,257
Current portion of long-term debt			1,011		18,441
Other current liabilities			5,124		12,996
Total current liabilities			22,621		42,543
Long-term debt, net of current portion			3,152		5,445
Other long-term liabilities			12,362		13,473
Total Liabilities			38,135		61,461
Commitments and contingencies (Note 14)		11.54			
Stockholders' equity:					
Preferred stock: par value of \$.001 per share, 50,000,000 shares at	uthorized, none outstanding		_		_
Common stock: par value of \$.001 per share, 100,000,000 shares a 18,523,138 shares outstanding at December 31, 2021 and 2020, re	authorized, 23,460,212 and 23,141,284 shares issued and 18,842,066 and spectively		23		23
Treasury stock, at cost: 4,618,146 and 4,618,146 shares as of Dece	ember 31, 2021 and 2020, respectively		(47,692)		(47,692)
Additional paid-in capital	, , ,		102,106		100,425
Retained earnings			92,864		32,454
Total stockholders' equity			147,301		85,210
Total Liabilities and Stockholders' equity		\$	185,436	\$	146,671

⁽¹⁾ See complete, audited Consolidated Financial Statements and Notes related thereto within the Annual Report on Form 10-K for the period ended December 31, 2021.

Appendix C: 10-K Income Statement(1)

Years Ended December 31,

Appointing 6. To 14 mooning elaterment		Years Ended December 31,					
in thousands, except per share data)		2021	2020				
Revenues:							
Consumables	\$	85,882	\$	53,908			
License royalties, related party		14,368		13,440			
Other		44		15			
Total revenues		100,294		67,363			
Operating expenses:							
Consumables cost of revenues, exclusive of depreciation and amortization		65,576		50,962			
Other cost of revenues, exclusive of depreciation and amortization				(563)			
Payroll and benefits		11,315		10,621			
Legal and professional fees		6,260		5,585			
General and administrative		7,060		8,228			
Depreciation, amortization, depletion and accretion		7,933		8,537			
Gain on change in estimate, asset retirement obligation		(2,702)		· –			
Impairment of long-lived assets				26,103			
Gain on settlement		_		(1,129)			
Total operating expenses		95.442		108,344			
Operating income (loss)		4,852	_	(40,981)			
Other income (expense):				, , ,			
Earnings from equity method investments		68,726		30,978			
Gain on extinguishment of debt		3,345					
Interest expense		(1,490)		(3,920)			
Other		640		132			
Total other income		71,221		27,190			
Income (loss) before income tax expense		76,073		(13,791)			
Income tax expense		15,672		6,511			
Net income (loss)	\$	60,401	\$	(20,302)			
Earnings (loss) per common share (Note 1):	<u> </u>	00,401	<u> </u>	(20,002)			
Basic	\$	3.31	\$	(1.12)			
Diluted	\$	3.27	\$	(1.12)			
Weighted-average number of common shares outstanding:	Ÿ	5.21	Ÿ	(1.12)			
Basic		18,258		18,044			
Diluted		18,461		18,044			
Dilutod		10,401		10,044			

Appendix D: 10-K Cash Flow ⁽¹⁾		Years Ended Dece	ember 31,
(in thousands)		2021	2020
Cash flows from operating activities		1	
Net income (loss)	\$	60,401 \$	(20,302)
Adjustments to reconcile net income (loss) to net cash provided by operating activities:			
Deferred income tax expense		10,604	3,491
Depreciation, amortization, depletion and accretion		7,933	8,537
Amortization of debt discount and debt issuance costs		945	1,418
Operating lease expense		2,038	3,559
Gain on extinguishment of debt		(3,345)	_
Gain on change in estimate, asset retirement obligation		(2,702)	_
Impairment of long-lived assets		_	26,103
Gain on settlement		_	(1,129)
Recovery of accounts receivable and other receivables		(36)	(990)
Stock-based compensation expense		1,927	2,496
Earnings from equity method investments		(68,726)	(30,978)
Other non-cash items, net		(173)	192
Changes in operating assets and liabilities, net of effects of acquired businesses:			
Receivables, net		540	(2,541)
Related party receivables		972	794
Prepaid expenses and other current assets		(2,064)	3,234
Inventories, net		1,394	4,748
Other long-term assets, net		1,838	(1,005)
Accounts payable		1,977	(196)
Accrued payroll and related liabilities		3,220	233
Other current liabilities		(8,279)	(520)
Operating lease liabilities		(2,764)	(2,200)
Other long-term liabilities		(2,645)	(3,337)
Distributions from equity method investees, return on investment		22,944	62,441
Net cash provided by operating activities	\$	25,999 \$	54,048

Appendix D: 10-K Cash Flow (continued) ⁽¹⁾		Years Ended December 31,				
(in thousands)		2021		2020		
Cash flows from investing activities						
Distributions from equity method investees in excess of cumulative earnings	\$	51,082	\$	_		
Acquisition of property, equipment and intangible assets, net		(6,201)		(6,685)		
Mine development costs		(1,398)		(781)		
Proceeds from sale of property and equipment		895		_		
Net cash provided by (used in) investing activities		44,378		(7,466)		
Cash flows from financing activities						
Principal payments on term loan		(16,000)		(24,000)		
Principal payments on finance lease obligations		(1,190)		(1,360)		
Dividends paid		(93)		(4,979)		
Borrowings from Paycheck Protection Program Loan		_		3,305		
Repurchase of shares to satisfy tax withholdings		(246)		(537)		
Repurchase of common shares		_		(159)		
Net cash used in financing activities		(17,529)		(27,730)		
Increase in Cash, Cash Equivalents and Restricted Cash		52,848		18,852		
Cash, Cash Equivalents and Restricted Cash, beginning of year		35,932		17,080		
Cash, Cash Equivalents and Restricted Cash, end of year	\$	88,780	\$	35,932		
Supplemental disclosure of cash flow information:				1111		
Cash paid for interest	\$	524	\$	2,489		
Cash paid (received) for income taxes	\$	8,882	\$	(84)		
Supplemental disclosure of non-cash investing and financing activities:						
Change in accrued purchases for property and equipment	\$	183	\$			
Change in asset retirement obligation	\$	121	\$	421		
Acquisition of property and equipment under finance lease	\$	_	\$	158		

⁽¹⁾ See complete, audited Consolidated Financial Statements and Notes related thereto within the Annual Report on Form 10-K for the period ended December 31, 2021.

Dividends payable

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Appendix E: Non-GAAP Financial Measure & Consolidated Adjusted EBITDA Reconciliation to Net Income & Segment Adjusted EBITDA to Segment Operating Income

Note on Non-GAAP Financial Measures

To supplement the Company's financial information presented in accordance with GAAP, the Company is providing non-GAAP measures of certain financial performance. These non-GAAP measures include Consolidated EBITDA, Consolidated Adjusted EBITDA, RC Segment EBITDA, RC Segment Adjusted EBITDA, APT Segment EBITDA and APT Segment Adjusted EBITDA. The Company has included non-GAAP measures because management believes that they help to facilitate period to period comparisons of the Company's operating results. The Company believes the non-GAAP measures provide useful information to both management and users of the financial statements by excluding certain expenses, gains and losses that may not be indicative of core operating results and business outlook. Management uses these non-GAAP measures in evaluating the performance of the Company's business.

These non-GAAP measures are not in accordance with, or an alternative to, measures prepared in accordance with GAAP and may be different from non-GAAP measures used by other companies. In addition, these non-GAAP measures are not based on any comprehensive set of accounting rules or principles. These measures should only be used to evaluate the Company's results of operations in conjunction with the corresponding GAAP measures.

The Company defines Consolidated EBITDA as net income adjusted for the impact of the following items that are either non-cash or that it does not consider representative of its ongoing operating performance: depreciation, amortization, depletion, accretion, amortization of upfront customer consideration that was recorded as a component of the Marshall Mine Acquisition ("Upfront Customer Consideration"), interest expense, net, and income tax expense. The Company defines Consolidated Adjusted EBITDA as Consolidated EBITDA reduced by the non-cash impacts of equity earnings from equity method investments, gain on change in estimate of asset retirement obligations, gain on extinguishment of debt, and gain on customer settlement and increased by cash distributions from equity method investments and impairment of long-lived assets. Because Consolidated Adjusted EBITDA omits certain non-cash items, the Company believes that the measure is less susceptible to variances that affect its operating performance.

The Company defines APT Segment EBITDA as APT Segment operating income (loss) adjusted for the impact of the following items that are either non-cash or that it does not consider representative of its ongoing operating performance: depreciation, amortization, depletion, accretion, amortization of Upfront Customer Consideration and interest expense, net. The Company defines APT Segment Adjusted EBITDA as APT Segment EBITDA reduced by gain on extinguishment of debt, gain on change in estimate of asset retirement obligation, gain on customer settlement and increased by impairment of long-lived assets.

The Company defines RC Segment EBITDA as RC Segment operating income adjusted for the impact of the following items that are either non-cash or that it does not consider representative of its ongoing operating performance: depreciation, amortization, depletion, accretion and interest expense. The Company defines RC Segment Adjusted EBITDA as RC Segment EBITDA reduced by the non-cash impact of equity earnings from equity method investments and gain on extinguishment of debt and increased by cash distributions from equity method investments.

When used in conjunction with GAAP financial measures, the Company believes these non-GAAP measures are supplemental measures of operating performance that explain its operating performance for its period to period comparisons and against its competitors' performance. Generally, the Company believes these non-GAAP measures are less susceptible to variances that affect its operating performance results.

With the exception of extinguishment of debt, gain on change in estimate, asset retirement obligation, impairment on long-lived assets and gain on settlement, the adjustments to Consolidated Adjusted EBITDA and APT Segment Adjusted EBITDA in future periods are generally expected to be similar. These non-GAAP measures have limitations as analytical tools, and should not be considered in isolation or as a substitute for analyzing its results as reported under GAAP.

Appendix F: Consolidated Adjusted EBITDA Reconciliation to Net Income (Loss)

		Three Months En	Year ended [Year ended December 31,			
(in thousands)		2021	2020	2021	2020		
Net income (loss)	\$	5,821	\$ 430	\$ 60,401	\$ (20,302)		
Depreciation, amortization, depletion and accretion		1,778	2,730	7,933	8,537		
Amortization of Upfront Customer Consideration		127	158	508	158		
Interest expense, net		(24)	819	1,164	3,793		
Income tax expense (benefit)	146 PH	1,659	5,196	15,672	6,511		
Consolidated EBITDA (loss)	<u> </u>	9,361	9,333	85,678	(1,303)		
Cash distributions from equity method investees		7,275	20,213	74,026	62,441		
Equity earnings		(6,782)	(5,019)	(68,726)	(30,978)		
Gain on extinguishment of debt		_	—	(3,345)	_		
Gain on change in estimate, asset retirement obligation		(760)	_	(2,702)	_		
Impairment		_	_	- 111	26,103		
Gain on settlement		_	(1,129)		(1,129)		
Consolidated Adjusted EBITDA	\$	9,094	\$ 23,398	\$ 84,931	\$ 55,134		

Appendix G: RC Segment Adjusted EBITDA Reconciliation to Segment Operating Income

	Three Months Ended December 31,				Year ended December 31,			
(in thousands)		2021		2020		2021		2020
RC Segment operating income	\$	9,117	\$	8,235	\$	82,634	\$	42,689
Depreciation, amortization, depletion and accretion		(1)		32		40		116
Interest expense		1		77		12		331
RC Segment EBITDA		9,117		8,344		82,686		43,136
Cash distributions from equity method investees		7,275		20,213		74,026		62,441
Equity earnings		(6,782)		(5,019)		(68,726)		(30,978)
Gain on extinguishment of debt				_		(97)		_
RC Segment Adjusted EBITDA	\$	9,610	\$	23,538	\$	87,889	\$	74,599

Appendix H: APT Segment Adjusted EBITDA Reconciliation to Segment Operating Income (Loss)

	Three Months Ended December 31,					Year ended December 31,			
(in thousands)	2021		2020		2021		2020		
APT Segment operating income (loss)	\$ 785	\$	691	\$	5,649	\$	(39,958)		
Depreciation, amortization, depletion and accretion	1,682		2,484		7,388		7,870		
Amortization of Upfront Customer Consideration	127		158		508		158		
Interest expense, net	64		128		297		402		
APT Segment EBITDA (loss)	2,658		3,461		13,842		(31,528)		
Gain on extinguishment of debt	 _		_		(2,562)				
Gain on change in estimate, asset retirement obligation	(760)		_		(2,702)		_		
Impairment	_		_		_		26,103		
Gain on settlement	_		(1,129)		_		(1,129)		
APT Segment Adjusted EBITDA (loss)	\$ 1,898	\$	2,332	\$	8,578	\$	(6,554)		