Momentum: C



Air Products (APD) Long Term: 6-12 Months Zacks Recommendation: (Since: 02/07/20) Neutral \$215.76 (As of 04/08/20) Prior Recommendation: Outperform Price Target (6-12 Months): \$227.00 Short Term: 1-3 Months Zacks Rank: (1-5) 2-Buy Zacks Style Scores: VGM:C

Summary

Earnings estimates for Air Products for the second quarter of fiscal 2020 have been going down over the past month. Strategic investments in high-return projects, cost-saving actions, new business deals and acquisitions are expected to drive the company's results in fiscal 2020. The company is also seeing positive impact of its productivity actions and is likely to gain from additional productivity and cost-improvement programs this year. Also, it is committed to maximize returns to shareholders. Air Products has also outperformed the industry over a year. However, the company faces headwinds from higher maintenance costs and unfavorable currency swings. Its Asia unit's sales are also likely to be hurt by the expected slowdown in China. Modification of Indian hydrogen supply contract will also affect the company's EMEA unit.

Data Overview

52 Week High-Low	\$257.01 - \$167.43
20 Day Average Volume (sh)	1,935,065
Market Cap	\$47.6 B
YTD Price Change	-8.2%
Beta	0.84
Dividend / Div Yld	\$5.36 / 2.5%
Industry	Chemical - Diversified
Zacks Industry Rank	Bottom 12% (223 out of 253)

Last EPS Surprise	2.9%
Last Sales Surprise	0.6%
EPS F1 Est- 4 week change	-2.6%
Expected Report Date	04/23/2020
Earnings ESP	-6.5%
P/E TTM	25.4

P/E TTM	25.4
P/E F1	23.3
PEG F1	2.0
P/S TTM	5.3

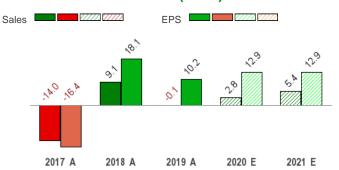
Price, Consensus & Surprise



Value: D

Growth: B

Sales and EPS Growth Rates (Y/Y %)



Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	2,326 E	2,367 E	2,455 E	2,553 E	9,665 E
2020	2,255 A	2,187 E	2,285 E	2,379 E	9,172 E
2019	2,224 A	2,188 A	2,224 A	2,283 A	8,919 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	\$2.49 E	\$2.53 E	\$2.72 E	\$2.83 E	\$10.47 E
2020	\$2.14 A	\$2.11 E	\$2.55 E	\$2.62 E	\$9.27 E
2019	\$1.86 A	\$1.92 A	\$2.17 A	\$2.27 A	\$8.21 A

*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 04/08/2020. The reports text is as of 04/09/2020.

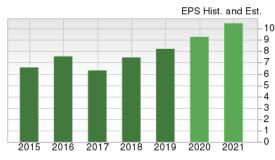
Overview

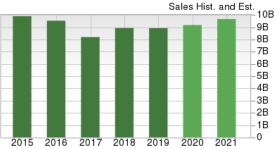
Pennsylvania-based Air Products and Chemicals Inc. makes industrial gases as well as a variety of polymer and performance chemicals. It also supplies processing equipment. Air Products' reporting segments are as follows:

Industrial Gases – Americas (43% of fiscal 2019 sales), Industrial Gases – Europe, Middle East, and Africa/EMEA (23%) and Industrial Gases – Asia (30%) segments include the results of the company's regional industrial gases businesses. These businesses sell atmospheric gases such as oxygen, nitrogen and argon and processes gases to a number of industries. Process gases such as carbon di oxide, helium, hydrogen, etc. are produced by other methods that exclude air separation. The largest cost component of the atmospheric gases is electricity.

The Americas segment operates through more than 400 distribution and production facilities in the South and North America. The EMEA division operates through 180 distribution and production facilities in the Europe, Middle East and Africa. The Asia unit operates from more than 170 facilities in the region.

The Industrial Gases – Global (3%) division designs and manufactures cryogenic and gas-processing equipment for air separation. It has majority or fully-owned subsidiaries in Canada, Asian countries, European countries, Latin American countries, African countries and in the Middle East.





The Corporate and other (1%) segment includes Air Products' liquefied natural gas (LNG) sale of equipment business and helium storage and distribution vessel sale of equipment business, the polyurethane intermediates (PUI) business which the company exited in early fiscal 2014 as well as corporate support functions that benefit all the divisions.

In February 2019, the company successfully achieved the mechanical completion of the world's largest industrial gas complex in Jazan, Saudi Arabia. The industrial gas complex is expected to be onstream in phases in 2019. Notably, this is one of the largest projects executed by Air Products till date and demonstrates its engineering capabilities and expertise.



Reasons To Buy:

▲ Given its leading position in the gases business, Air Products is well positioned to capitalize on the cyclical recovery in its core industrial end-markets. It has sufficient capacity to meet the expected upturn in demand without incurring additional capital expenditures. The company has built a strong project backlog. These projects are expected to be accretive to earnings and cash flow as they come on stream over the next few years. Moreover, Air Products has outperformed the industry it belongs to in the past year. The company's shares have gained 11.7% over this period against the 40.9% decline of the industry.

Air Products has a strong project backlog. Moreover, strategic investments in high-return projects, new business deals, cost cuts and acquisitions should drive results.

- ▲ The spin-off of the Materials Technologies unit has allowed Air Products to direct resources to grow its core and stable industrial gases business. These actions (part of the company's strategic five-point plan) are expected to enable the company to achieve its goal of becoming the safest and most profitable industrial gas company globally. It has total available capacity to deploy (over fiscal 2018-2022) more than \$18 billion in high-return investments, aimed at creating significant shareholder value. These include the roughly \$2 billion Jazan project in Saudi Arabia, which successfully achieved the mechanical completion in February 2019, and the \$1.3 billion Lu'An syngas joint venture project in China. The company's earnings per share guidance for fiscal 2020 indicates 14-17% growth, courtesy of strong fiscal 2019 performance. The projection includes expected contribution from the Jazan project. Moreover, the company's latest project in the United States, which is worth \$500 million, marks its largest investment so far in the country. The project will likely boost the size and supply capacity of Air Products' extensive hydrogen pipeline system in the Gulf Coast.
- ▲ Air Products remains committed to boost productivity to improve its cost structure. The company benefited from its \$600 million cost-cutting program which supported its earnings in fiscal 2018. The company is seeing positive impact of its productivity actions as witnessed in the last reported quarter and expects to continue to benefit from additional productivity and cost improvement programs in fiscal 2020. The company's cost reduction actions are expected to drive cost synergies within the Industrial Gases EMEA unit as well as the Industrial Gases Americas unit.
- ▲ Acquisitions and new business wins are expected to continue to drive results in the near term. The acquisition of a 67% stake in Chilean industrial gas company, Indura S.A. has ushered in substantial growth opportunity for Air Product, placing it as Latin America's second largest industrial gas producer. The acquisition opened up a \$1.5 billion opportunity in Latin America, the second-highest growth region in the world following Asia. Moreover, the EPCO acquisition has allowed Air Products expand its market share by offering an extended product portfolio. It will also provide cost and revenue synergies to Air Products. In March 2019, the company completed the purchase of ACP Europe SA, the biggest independent carbon dioxide business in Continental Europe. The buyout enables Air Products to serve existing customers better and also tap new industrial gas growth opportunities.
- Air Products remains committed to maximize returns to shareholders. The company generated more than \$12 per share or more than \$2.7 billion of distributable cash flow during fiscal 2019. This marks an increase of nearly 20% or from fiscal 2018 levels. This distributable cash flow enabled it to pay roughly \$1 billion or around 40% as dividends to shareholders and the company still has nearly \$1.7 billion of investable cash flows available for high return projects in core industrial gas business. Air Products' board also recently increased its quarterly dividend by more than 15% to \$1.34 per share from \$1.16 per share, marking the largest dividend hike in the company's history. This also marks the 38th straight year of dividend increase. Strong cash flow enables the company to boost shareholders' value by increasing dividends and capital deployment.

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Reasons To Sell:

- ▼ Air Products witnessed pressure on its sales in the fiscal first quarter due to the restructuring
 of its hydrogen supply agreement in India. The conversion of the hydrogen plant in India into a
 tolling arrangement reduced sales by 8% in the company's EMEA gases business in the last
 reported quarter and also had an impacted of 2% on overall sales for the quarter. Contract
 modification may have a sustained unfavorable impact on sales and volumes in secondquarter fiscal 2020 as well.
- ▼ Air Products is exposed to headwind from unfavorable currency movements. Currency swings had an unfavorable impact of 1% on sales in the last reported quarter, mostly related to Chinese yuan and the euro. Unfavorable currency also had a 3% impact on the company's fiscal 2019 sales. Unfavorable currency translation, due to weaker foreign currencies, may continue to affect the company's sales and margins.
- Air Products faces headwinds from higher maintenance costs, an expected slowdown in China and unfavorable currency swings. Modification of Indian hydrogen supply contract will also affect the company's EMEA sales.
- ▼ Air Products faces headwind from higher expected maintenance spending in the fiscal second quarter. It expects higher maintenance costs for the quarter due to planned life extension work on certain facilities. Higher costs are likely to affect margins in its Americas business. The company also sees maintenance cost for fiscal 2020 to be in the range of roughly \$250-\$260 million.
- ▼ While the company's Industrial Gases Asia segment delivered healthy results in the most recent quarter, the business faces headwind in the fiscal second quarter from the Chinese Lunar New Year holiday which has been extended by the Chinese authorities to contain the outbreak of coronavirus. The company expects slowdown due to the Chinese New Year to dampen growth in the second quarter. This is likely to impact sales and margins in the Air Products' Asia unit.

Last Earnings Report

Air Products' Earnings and Sales Top Estimates in Q1

Air Products logged earnings from continuing operations of \$2.14 per share in first-quarter fiscal 2020 (ended Dec 31, 2019), up 36% from \$1.57 recorded in the year-ago quarter. Earnings topped the Zacks Consensus Estimate of \$2.08.

The bottom line in the reported quarter was driven by higher volumes and pricing across all regions.

The company delivered fiscal first-quarter revenues of \$2,254.7 million, up 1% year over year. It also beat the Zacks Consensus Estimate of \$2,240.7 million.

Report Date	Jan 24, 2020
Sales Surprise	0.63%
EPS Surprise	2.88%
Quarterly EPS	2.14
Annual EPS (TTM)	8.50

12/2019

Quarter Ending

Volumes rose 6% while pricing increased 3%. These were offset by 1% unfavorable currency, 2% from a contract modification in India and 5% lower energy pass-through.

Volume gains were supported by base business growth, new plants, acquisitions and a short-term contract in Asia.

Segment Highlights

Revenues in the Industrial Gases — America segment fell 5% year over year to \$936 million. Higher pricing and volumes were more than offset by lower energy pass-through and unfavorable currency.

Sales in the Industrial Gases — EMEA segment dropped 5% year over year to \$499 million. Higher pricing and volumes were offset by unfavorable currency, decline from the India contract modification and lower energy pass-through.

Sales in the Industrial Gases — Asia segment rose 11% year over year to \$693 million. The upside was driven by higher volumes (supported by new plants) and pricing. These were partly offset by unfavorable currency.

Financials

Air Products ended the quarter with cash and cash equivalents of \$2,406.1 million, down around 18% year over year. Long-term debt was down roughly 1% year over year to \$2,937 million.

Net cash from operating activities were \$667 million for the quarter, up around 2% year over year.

Outlook

Air Products continues to expect adjusted earnings for fiscal 2020 in the range \$9.35-\$9.60 per share, which calls for a 14-17% rise year over year.

The company expects adjusted earnings to be in the band of \$2.10 to \$2.20 per share for second-quarter fiscal 2020, up 9%-15% year over year.

Air Products also expects capital expenditure for fiscal 2020 in the range of \$4-\$4.5 billion.

Recent News

Air Products Inks Deal to Buy Five Hydrogen Plants for \$530M - Mar 30, 2020

Air Products has signed a deal with PBF Energy Inc. through which it will acquire five steam methane reformer (SMR) hydrogen production plants for \$530 million. Notably, the deal also includes the long-term supply of hydrogen from the already operating plants to refineries of PBF Energy.

The SMRs, located in Torrance and Martinez, CA, and Delaware City, DE, have an approximate combined production capacity of 300 million standard cubic feet per day. Reportedly, the SMR being purchased in Delaware City marks Air Products' first major asset operating in the state of Delaware.

The agreement is slated to close in the third quarter of fiscal 2020. The company also stated that it will discuss additional details about the deal on its second-quarter earnings call.

Per management, Air Products' strong balance sheet places it in an excellent financial position to pursue its policy of investing in long-term onsite transactions such as the acquisition of five SMRs hydrogen production plants.

Air Products to Build Gasunie's 3 Nitrogen Plants in Zuidbroek - Mar 26, 2020

Air Products and N.V. Nederlandse Gasunie held a groundbreaking ceremony to construct three modern nitrogen plants near Zuidbroek, Groningen.

Notably, the companies held the ceremony on Mar 9 after the project was approved by the Economic Affairs and Climate Minister of the Netherlands. The construction of the plants is an integral part of the cabinet's plan to stop the extraction of gas at its Groningen Field, replacing it with higher heat-content imported natural gas that will require conditioning.

The three plants that will be built by Air Products will produce nitrogen required to meet the specifications of commercial and consumer applications across the country. Expected to become operational by mid-2022, the plants will cover an area of around 12 hectares and will have a capacity of 180,000m3 of nitrogen per hour, which is more than ten times larger than the current nitrogen plant at Zuidbroek.

Air Products' management believes that its world-class expertise allows it to supply Gasunie with plant geared to meet its rigorous safety, reliability and efficiency requirements.

Air Products Inks Another Oxy-Fuel Contract With Techpack - Mar 24, 2020

Air Products has inked a deal with Techpack Solutions for the supply of its integrated oxy-fuel combustion solution. This is the third project of Air Products, wherein it will supply solutions to Techpack to help it convert its furnace from air-fuel to oxy-fuel for enhanced sustainability and competitiveness. Notably, Air Products will supply the oxygen and combustion systems needed by Techpack at its manufacturing complex, when the project comes onstream.

The integrated solution contains Air Products' advanced oxy-fuel combustion system. Notably, the company's oxy-fuel combustion system includes Cleanfire HRi and latest Cleanfire HRx oxy-fuel burners, and an automatic flow control skid. It also includes a PRISM vacuum swing adsorption oxygen generator for supplying reliable and cost-effective on-site oxygen needed to power oxy-fuel burners for melting glass.

With improved functionality and flexibility, the patent-pending Cleanfire HRx oxy-fuel burner allows glass producers to monitor the amount and position of oxygen staging up to 95% of the combustion oxygen. This results in ultra-low emissions of nitrogen oxides (NOx), higher fuel performance, improved production, and better product quality. Notably, the latest model is anticipated to minimize NOx emissions further by 40%.

The oxy-fuel combustion technology of Air Products is proven to offer numerous benefits such as reducing more than 80% of nitrogen oxide emissions, generating 10-35% energy savings and bringing around 25% increase in productivity along with improvement in efficiency and glass quality.

Air Products to Provide Technology to Mozambique LNG Project - Mar 12, 2020

Air Products has signed a deal to offer its patented liquefied natural gas (LNG) technology, equipment and associated process licensing and advisory services to the Mozambique LNG Project.

Air Products' world-leading LNG manufacturing facility in Port Manatee, FL, will produce two LNG heat exchangers, which will be delivered to the Afungi Peninsula-based project site in Cabo Delgado, Mozambique. Notably, the LNG production plant is expected to be the first onshore LNG project at the Republic of Mozambique in Southeast Africa.

Per the deal with EPC contractor CCS JV, Air Products will offer two proprietary coil wound main cryogenic heat exchangers (MCHE) for the Mozambique LNG Project. Reportedly, MCHEs will run at the site as part of the two distinct LNG production trains geared to generate in total about 13 million tons of LNG per year from the Golfinho/Atum natural gas fields in Mozambique.

Air Products JV Starts Work on Industrial Gases Hub in Jubail - Feb 24, 2020

Air Products has announced that Air Products Qudra, in partnership with the Royal Commission for Jubail and Yanbu, held a ceremonial groundbreaking to start the construction of a world-class, fully-integrated industrial gases hub in the Jubail Industrial City. Notably, Air Products Qudra is a joint venture between Air Products and Qudra Energy.

Air Products Qudra's substantial investments include the construction, ownership and operation of a world-scale steam methane reformer (SMR), hydrogen pressure swing adsorption (PSA), an air separation unit (ASU) and the installation of comprehensive pipeline networks. Notably, SMR will serve the petrochemical and refinery industries to meet the increasing demand in Saudi Arabia's eastern region. ASU and

PSAs will serve as the hub for industrial gas pipelines to be supplied to individual customer connections in the region.

Per management, the investment in Jubail showcases the full suite of Air Products' capabilities in support of sustainable energy and chemicals production to the Kingdom of Saudi Arabia. Notably, the investment is a continuation of Air Products Qudra's mission to bring world-class technology, leading project execution, on-site solutions, and operational leadership for large-scale environmental and energy projects across the Middle East.

The investment in Jubail also demonstrates the key strengths and capabilities that Air Products Qudra brings to support the creation of a world-leading downstream sector in Saudi Arabia.

The industrial gases hub is expected to be completed in 2023, and will reliably serve Jubail Industrial City's continued growth and support the Kingdom of Saudi Arabia's increasing prosperity. It will also allow Jubail to achieve higher off-gas values and launch the latest technologies for converting low-value feedstocks into high-value products.

Valuation

Air Products' shares are up 11.7% over the trailing 12-month period. Stocks in the Zacks Chemicals-Diversified industry and the Zacks Basic Materials sector are down 40.9% and 31.2% over the past year, respectively.

The S&P 500 index is down 8% in the past year.

The stock is currently trading at 14.67X trailing 12-month enterprise value-to EBITDA (EV/EBITDA) ratio, which compares to 6.26X for the Zacks sub-industry, 7.65X for the Zacks sector and 9.75X for the S&P 500 index.

Over the past five years, the stock has traded as high as 17.35X and as low as 10.65X, with a 5-year median of 12.81X.

Our Neutral recommendation indicates that the stock will perform in-line with the market. Our \$227 price target reflects 22.54X forward 12-month earnings per share.

The table below shows summary valuation data for APD:

Valuation Multiples - APD					
		Stock	Sub-Industry	Sector	S&P 500
	Current	14.67	6.26	7.65	9.75
EV/EBITDA TTM	5-Year High	17.35	13.36	18.23	12.87
	5-Year Low	10.65	5.43	6.49	8.27
	5-Year Median	12.81	7.58	10.54	10.78
	Current	21.42	11.45	11.26	16.99
P/E F 12M	5-Year High	26.27	15.18	21.12	19.34
	5-Year Low	15.28	8.25	9.82	15.19
	5-Year Median	21.19	12.26	13.43	17.44
	Current	3.99	1.24	1.48	3.54
P/B TTM	5-Year High	4.75	3.55	3.55	4.55
	5-Year Low	2.92	0.89	1.21	2.84
	5-Year Median	3.84	1.84	2.18	3.63

As of 04/08/2020

Industry Analysis Zacks Industry Rank: Bottom 12% (223 out of 253)

■ Industry Price ■ Price _260 Industry

Top Peers

Air Liquide (AIQUY)	Outperform
Albemarle Corporation (ALB)	Neutral
Brenntag AG (BNTGY)	Neutral
The Chemours Company (CC)	Neutral
Linde plc (LIN)	Neutral
BASF SE (BASFY)	Underperform
Dow Inc. (DOW)	Underperform
LyondellBasell Industries N.V. (LYB)	Underperform

Industry Comparison Ind	ustry: Chemical - Div	rersified		Industry Peers		
	APD Neutral	X Industry	S&P 500	AIQUY Outperform BAS	SFY Underperform	LIN Neutra
VGM Score	С	-	-	А	D	В
Market Cap	47.61 B	2.14 B	19.05 B	60.68 B	46.25 B	101.87 E
# of Analysts	7	3	13	2	3	8
Dividend Yield	2.48%	2.49%	2.23%	1.88%	5.08%	0.00%
Value Score	D	-	-	С	В	D
Cash/Price	0.06	0.12	0.06	0.02	0.06	0.03
EV/EBITDA	13.81	7.15	11.47	NA	5.45	14.36
PEG Ratio	1.97	2.06	2.00	3.55	10.21	2.12
Price/Book (P/B)	3.99	1.39	2.56	2.80	0.98	1.98
Price/Cash Flow (P/CF)	16.38	4.78	10.14	12.37	5.28	11.72
P/E (F1)	23.28	13.30	16.97	22.10	13.69	23.27
Price/Sales (P/S)	5.32	0.67	2.01	NA	0.67	3.61
Earnings Yield	4.30%	7.20%	5.81%	4.50%	7.31%	4.30%
Debt/Equity	0.27	0.52	0.70	0.65	0.39	0.21
Cash Flow (\$/share)	13.17	3.41	7.01	2.08	2.38	15.95
Growth Score	В	-	-	A	F	Α
Hist. EPS Growth (3-5 yrs)	4.57%	9.85%	10.92%	NA	0.04%	NA
Proj. EPS Growth (F1/F0)	12.88%	-11.54%	-0.64%	8.88%	-17.86%	9.47%
Curr. Cash Flow Growth	10.98%	-7.54%	5.93%	7.05%	-19.09%	33.98%
Hist. Cash Flow Growth (3-5 yrs)	5.70%	6.07%	8.55%	6.71%	-0.12%	23.52%
Current Ratio	2.59	1.83	1.24	0.88	1.78	0.85
Debt/Capital	21.49%	35.68%	42.36%	39.57%	28.03%	17.34%
Net Margin	21.10%	5.03%	11.64%	NA	14.63%	8.09%
Return on Equity	16.20%	11.95%	16.74%	NA	9.13%	7.54%
Sales/Assets	0.46	0.83	0.54	NA	0.68	0.32
Proj. Sales Growth (F1/F0)	2.84%	-2.86%	0.61%	2.04%	2.54%	1.04%
Momentum Score	C	-	-	Α	F	C
Daily Price Chg	6.80%	2.31%	4.33%	-1.10%	2.11%	3.89%
1 Week Price Chg	-3.40%	-3.94%	-4.40%	4.82%	-3.31%	-3.11%
4 Week Price Chg	3.83%	-3.24%	-1.70%	2.26%	-4.19%	7.49%
12 Week Price Chg	-8.37%	-30.68%	-20.64%	-8.85%	-29.47%	-11.59%
52 Week Price Chg	11.77%	-35.80%	-12.97%	8.84%	-35.09%	3.27%
20 Day Average Volume	1,935,065	167,419	4,016,075	180,771	686,945	3,965,265
F1) EPS Est 1 week change	0.00%	0.00%	-0.26%	0.00%	-8.61%	0.00%
(F1) EPS Est 4 week change	-2.55%	-9.51%	-5.64%	0.43%	-9.51%	-2.28%
F1) EPS Est 12 week change	-2.11%	-17.39%	-7.49%	3.40%	-23.33%	-1.24%
(Q1) EPS Est Mthly Chg	-0.62%	-20.79%	-9.90%	NA	-22.73%	-2.86%

Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

Value Score	D
Growth Score	В
Momentum Score	C
VGM Score	С

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

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