

# Advanced Energy (AEIS) 2020 Investor Briefing

DECEMBER 14, 2020

# SAFE HARBOR STATEMENT

The company's guidance with respect to anticipated financial results, potential future growth and profitability, future business mix, expectations regarding future market trends, future performance within specific markets and other statements herein that are not historical information are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are subject to known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. Such risks and uncertainties include, but are not limited to: (a) the effects of global macroeconomic conditions upon demand for our products and services; (b) the volatility and cyclicality of the industries the company serves, particularly the semiconductor industry; (c) delays in capital spending by end-users in our served markets; (d) the risks and uncertainties related to the integration of Artesyn Embedded Power including the optimization and reduction of our global manufacturing sites; (e) the continuing spread of COVID-19 and its potential adverse impact on our product manufacturing, research & development, supply chain, services and administrative operations; (f) the accuracy of the company's estimates related to fulfilling solar inverter product warranty and post-warranty obligations; (g) the company's ability to realize its plan to avoid additional costs after the solar inverter wind-down; (h) the accuracy of the company's assumptions on which its financial statement projections are based; (i) the impact of product price changes, which may result from a variety of factors; (j) the timing of orders received from customers; (k) the company's ability to realize benefits from cost improvement efforts including avoided costs, restructuring plans and inorganic growth; (I) the company's ability to obtain in a timely manner the materials necessary to manufacture its products; (m) unanticipated changes to management's estimates, reserves or allowances; (n) changes and adjustments to the tax expense and benefits related to the U.S. tax reform that was enacted in late 2017; and (o) the impact of political, economic and policy tensions and conflicts between China and the United States including, but not limited to, trade wars and export restrictions between the two countries, China's national security law for Hong Kong, and China's expansion of control over the South China Sea, any of which could negatively impact our customers' and our presence, operations, and financial results. These and other risks are described in Advanced Energy's Form 10-K, Forms 10-Q and other reports and statements filed with the Securities and Exchange Commission (the "SEC"). These reports and statements are available on the SEC's website at www.sec.gov. Copies may also be obtained from Advanced Energy's investor relations page at ir.advanced-energy.com or by contacting Advanced Energy's investor relations at 970-407-6555. Forwardlooking statements are made and based on information available to the company as of December 14<sup>th</sup>, 2020. Aspirational goals and targets discussed during the event or in the presentation materials should not be interpreted in any respect as guidance. The company assumes no obligation to update the information in this presentation.



# PRESENTER AND AGENDA



**Yuval Wasserman** 

President and Chief Executive Officer



Paul Oldham

Executive Vice President and Chief Financial Officer



**Dana Huth** 

Chief Revenue Officer



**Edwin Mok** 

Vice President, Strategic Marketing and Investor Relations

Presenter	Торіс
Yuval Wasserman	A Best-in-Class Industrial Growth Enterprise
Dana Huth	Realizing Growth Potential
Paul Oldham	Delivering Long-term Shareholder Value
All	Q&A Session





# A Best-in-Class Industrial Growth Enterprise

YUVAL WASSERMAN

PRESIDENT AND CEO

# POWERING THE 4<sup>TH</sup> INDUSTRIAL REVOLUTION



Data economy and digitization drive growth across our markets

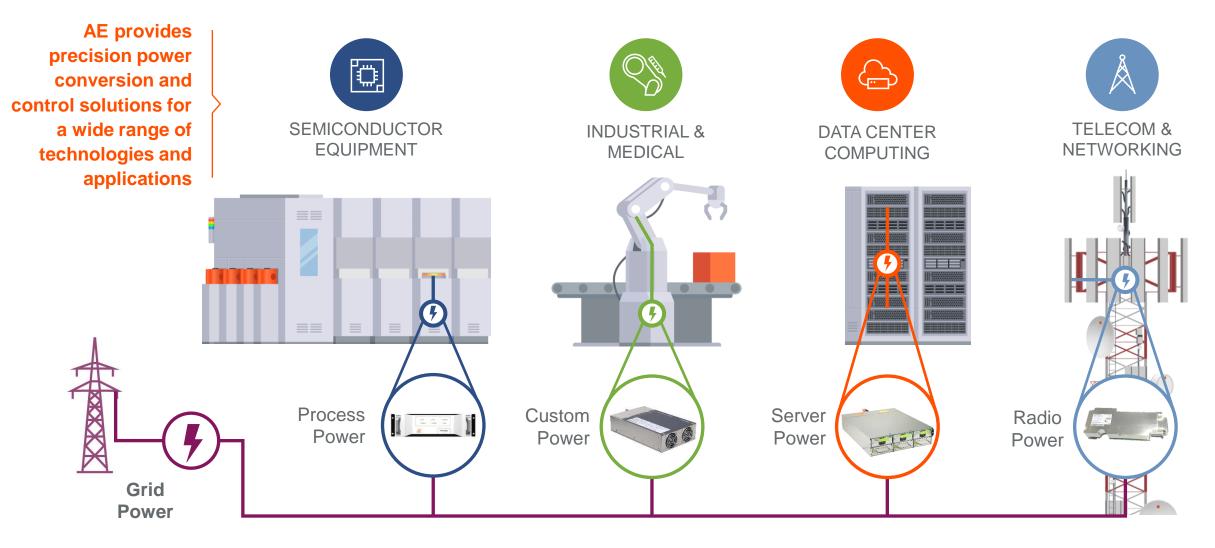


### **ACCELERATING EARNINGS**

Targeting earnings growth at over 2X faster than revenue and ROIC of over 20%



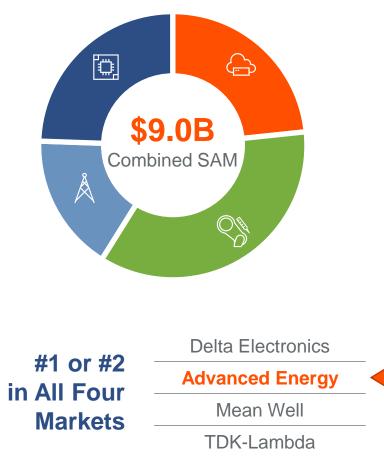
# WE ARE THE PURE PLAY POWER LEADER





# OUR LEADERSHIP DRIVES SOLID PERFORMANCE

### Large & Diversified Growing Market



### Last 4 Quarters Reported Results



\$1.38 billion REVENUE 129% YoY Growth



**\$218 million NON-GAAP OP PROFIT**<sup>(1)</sup> 144% YoY Growth

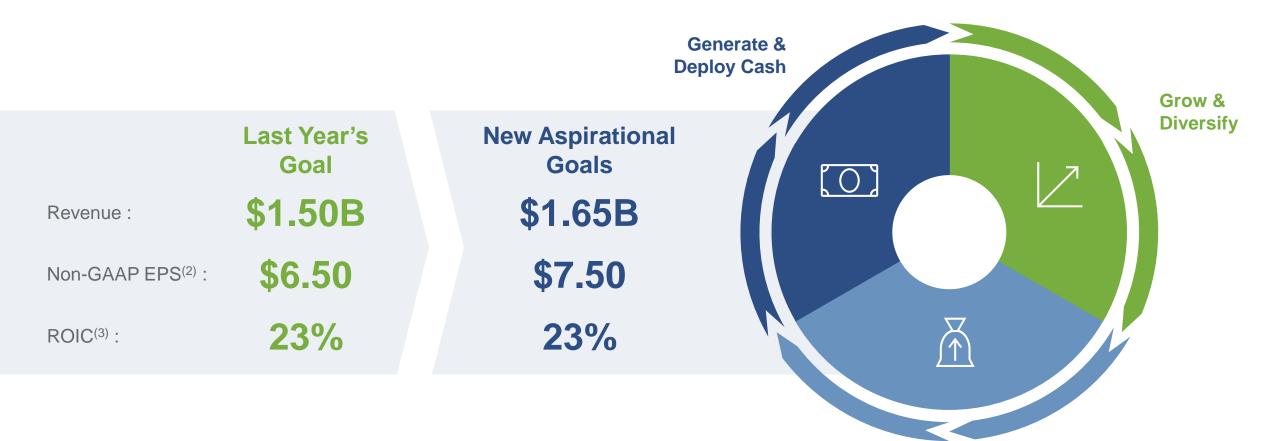




**\$154 million OPERATING CASH FLOW** 149% YoY Growth



# UPDATED 3-YEAR ASPIRATIONAL GOALS<sup>(1)</sup>



- (1) Please note that hypothetical scenarios regarding revenue growth, EBITDA, EPS, (GAAP or non-GAAP), ROIC, cash generation, acquisitions, aspirational goals, long-term vision and similar statements illustrate various possible outcomes of our different strategies if they are successful. These hypothetical scenarios and illustrations should not be treated as forecasts or projections or financial guidance. We cannot assure you that we will be able to accomplish any of these goals, metrics or opportunities at any point in the future (if at all), all of which are subject to significant risks and uncertainties.
- (2) Refer to the non-GAAP reconciliation for additional detail.
- (3) ROIC calculated as Non-GAAP Operating Income After Tax divided by Invested Capital, which is defined as Total Assets less Cash, Payables, Accrued Expenses

Drive Strong Profitability



### Secular Drivers

**5G** 





### SEMICONDUCTOR EQUIPMENT

- Leading-edge foundry/logic for creating 5G smartphone SoC
- High density memory needed in mobile devices
- RF devices drive upgrades and retrofits

### **DATA CENTER COMPUTING**

- Mobile Edge Computing
- Cloud service providers providing telecom cloud solutions
- Telecom carrier's own datacenter

### **TELECOM & NETWORKING**

- 5G infrastructure requires ruggedized power
- Remote radio head and base station power solutions
- Backhaul network for transmitting large amounts of data

### **INDUSTRIAL & MEDICAL**

- Enterprise/factory-owned localized 5G networks
- Telecom 5G solutions for industrial applications
- Telemedicine, remote diagnostics and treatment









# ARTIFICIAL INTELLIGENCE: TRANSFORMING OUR MARKETS

Α

- Increased demand for leading-edge capacity
- New memory architectures



 Increased power density in data center server racks



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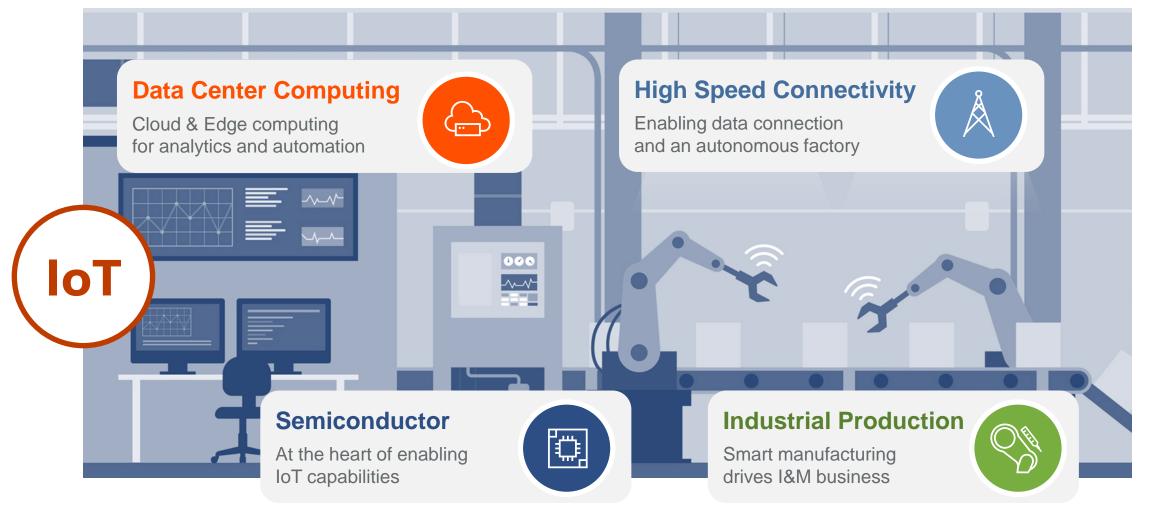


- Accelerating adoption of process automation
- Enabling new medical advancement

- Å
- High-speed connectivity for seamless data transmission
- Importance of Interconnectivity



### INDUSTRIAL IOT: ENABLING SMART MANUFACTURING

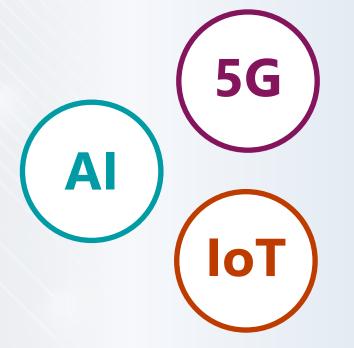




**Secular Drivers** 

# 4<sup>TH</sup> INDUSTRIAL REVOLUTION DRIVES GROWTH ACROSS OUR 4 VERTICALS

### KEY TECHNOLOGIES BEHIND THE 4<sup>TH</sup> INDUSTRIAL REVOLUTION









### **DRIVING GROWTH ACROSS OUR 4 VERTICALS**





# 4 KEY AREAS FOR GROWTH

### AE TARGETED GROWTH STRATEGIES



#### **GROW SHARE**

Across Mission Critical, Precision Power Verticals



Invest in **INNOVATION** and Technology Leadership



Leverage Strong Financials and Increased Scale to Capitalize on NEW OPPORTUNITIES



Semiconductor: Extending Our Leadership



Industrial & Medical: Enabling Smart Applications



Hyperscale: From Fast Follower to Market Leader



Inorganic Growth: Leveraging Scale to Grow Scope



# SEMI: EXTENDING OUR LEADERSHIP

Track Record:

Outgrowing the market and our competitors

~2X

**RF Power Market Share vs. Next Competitor**<sup>(1)</sup>

**61%** 

13%

2020 YTD Revenue YoY Growth

**Revenue CAGR**<sup>(2)</sup>

**10-year Semi Product** 



- RF Match a fast-growing product category
- Industry-leading capabilities in tuning, metrology and triple-frequencies
- Extending leadership with Solid State matching technology and integrated RF system

Changing the game in RPS: MAXstream<sup>™</sup> addressing customers' pain points

Undisputed leadership in RF:

Most advanced matching and integration

> 2 X AE CAGR over WFE<sup>(3)</sup>

### Targeting to continue to outgrow the market



- Up to 60% improvement in power accuracy
- Industry's most dependable ignition
- Reliable and cost-effective small form factor

### Representing SAM of \$150MM



- (1) Market share estimates by VLSI Research, based on 5-year average data from 2015 to 2019
- (2) CAGR is calculated using 2020 forecast based on the mid-point of Q4 2020 guidance
- (3) Comparing AE 10-year product revenue CAGR to WFE CAGR according to VLSI research

# HYPERSCALE: FROM FAST FOLLOWER TO MARKET LEADER





(1) Hyperscale market growth rates are internal estimates based on forecast by companies, Morgan Stanley, Credit Suisse Research & RBC Capital Markets

(2) 2017 Data Center Computing revenue is based on pro forma historical revenue of Artesyn before acquisition

# **INDUSTRIAL & MEDICAL: ENABLING SMART APPLICATIONS**



New products enabling our customers to deliver on the promise of Industry 4.0



# INORGANIC GROWTH: LEVERAGING SCALE TO GROW SCOPE





# ESG INITIATIVES ARE INCORPORATED ACROSS OUR BUSINESS AND OUR PRODUCTS



ENVRIONMENTAL

- Energy efficient products
- Energy efficient operations
- Recycling



SOCIAL

- Empowering our community
- Scholarships and educational improvement
- Volunteerism



### GOVERNANCE

- Supply chain human rights
- Employee development and training
- Diverse Board

# LONG-TERM VISION



(1) Non-GAAP financial measures can be found at the back of this presentation

(2) ROIC calculated as Non-GAAP Operating Income After Tax divided by Invested Capital, which is defined as Total Assets less Cash, Payables, Accrued Expenses.



# **Realizing Growth Potential**

DANA HUTH

CHIEF REVENUE OFFICER



# **TOPICS TODAY**

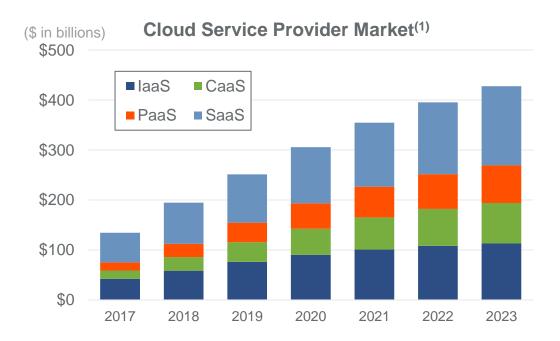
# DATA CENTER HYPERSCALE

# INDUSTRIAL & MEDICAL

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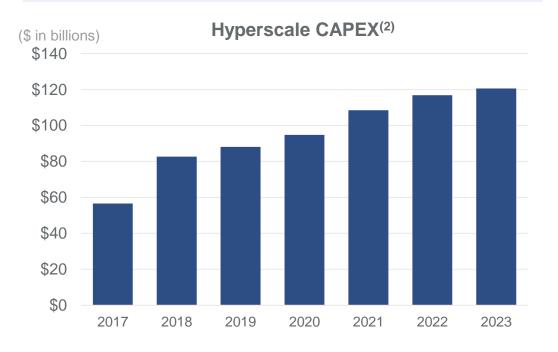
# STRONG SECULAR GROWTH IN DATA CENTER MARKET

### ACCELERATED ADOPTION OF CLOUD COMPUTING AND INTERNET USAGE



- Demand growth projected to continue for many years
- Driven by accelerated digital transformation and the 4IR

### GROWING INVESTMENTS IN HYPERSCALE DATA CENTER INFRASTRUCTURE



- Hyperscale infrastructure is the fastest growing segment
- These infrastructure owners are focused on Total Cost of Ownership (TCO) of the data center



(1) Source: Omdia, Credit Suisse Research

(2) Source: Company Reports, Morgan Stanley, Credit Suisse Research, RBC Capital Markets, Internal Estimates

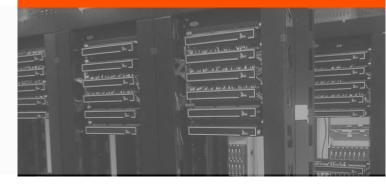
# A HYPERSCALE EVOLUTION FOR RACK-SCALE INFRASTRUCTURE OWNER

# TRADITIONAL SERVERS IN ENTERPRISE

### CUSTOM SERVERS OPTIMIZED FOR APPLICATIONS

# 

### SYSTEM LEVEL SOLUTION TO MAXIMIZE ENERGY SAVINGS



### MANY SUPPLIERS SOME SUPPLIERS TOP SUPPLIERS STANDARD POWER SUPPLY CUSTOM IN-SERVER POWER SUPPLY CUSTOM POWER SYSTEM CUSTOM POWER SYSTEM



## INCREASED IMPORTANCE OF TOTAL COST OF OWNERSHIP

### DATA CENTER TOTAL COST OF OWNERSHIP





• Total rack level design for cost optimization

CAPEX

- Reduced hardware redundancy without compromise
- Increased compute density

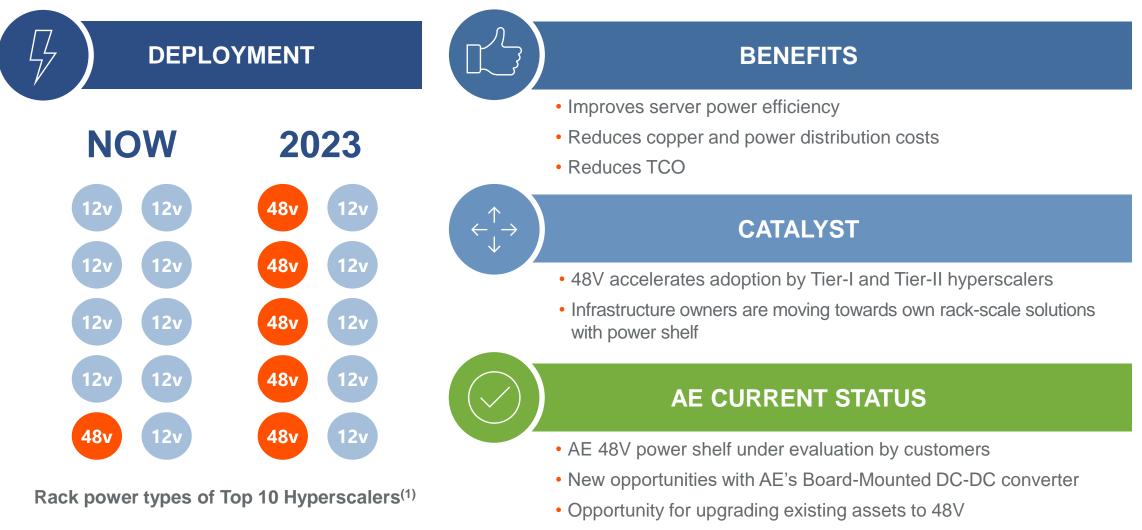
DRIVERS OF LOWERING COSTS

- Electricity is the biggest driver of operating costs
- Maximizing energy efficiency saves \$ millions
- Visibility and control of energy and battery backup

### **POWER SHELF ADDRESSES THESE NEEDS**



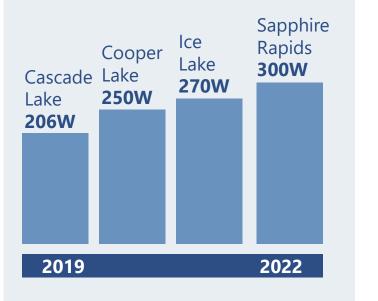
# 48V SERVER ACCELERATES ADOPTION OF POWER SHELF





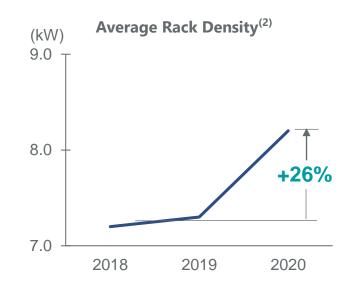
# POWER CONTENT GROWING IN DATA CENTER RACK

### INCREASED POWER WITH ADVANCED MPU ROADMAP<sup>(1)</sup>



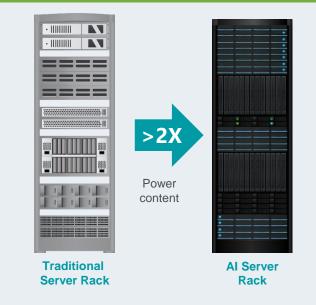
- Increased Microprocessor TPU drives
   higher power needs for servers
- New architecture stimulates demand for upgrades to power systems

### GROWING RACK DENSITY IN DATA CENTER



- Average rack power density increased by 26% in 2 years
- Power supply content per rack is 2-3x higher than rack density due to redundancy and oversizing

### POWER SUPPLY CONTENT MORE 2X IN AI RACKS



- Traditional server rack typically has power supply content of 10-25kW<sup>(3)</sup>
- Al server rack has power supply content of 30-60KW<sup>(3)</sup>, >2x traditional rack

#### Advanced Energy

Source: AFCOM State of the Data Center reports user survey

(3) Internal estimates

<sup>(1)</sup> Source: Intel

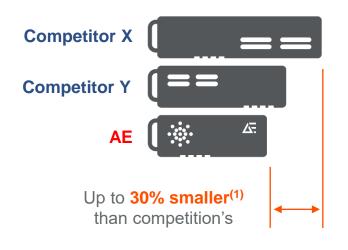
# AE TECHNOLOGY LEADERSHIP ENABLES STRONG COMPETITIVE ADVANTAGES

### INDUSTRY-LEADING POWER CONVERSION EFFICIENCY



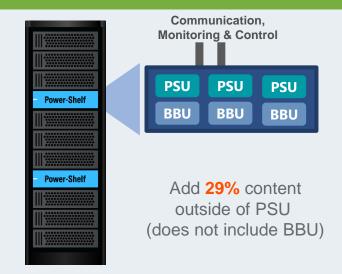
- AE among the first to demonstrate 98% efficiency
- Increased efficiency crucial in reducing electricity costs of data center

### POWER DENSITY LEADERSHIP



- Density leadership at 75 Watt/in<sup>3</sup> by integrating components
- Enabling high-power, high efficiency design in the smallest form factor
- More real estate for server components

### SYSTEM LEVEL SOLUTIONS WITH ADVANCED CAPABILITIES



- A rack-level power system solution housing PSUs and/or BBUs<sup>(2)</sup>
- Enables analytics, network functions, direct control and monitoring of rack power and back up batteries



(1) Internal estimates

# GROWING SUBSTANTIALLY FASTER THAN THE MARKET



### **OUR WINNING STRATEGIES**

- Gain share at Tier-I hyperscale customers
- In an early stage of ramping initial design wins
- Penetrate multiple Tier-II hyperscale customers

- Win with system-level solutions
- Best-in-class quality, operations and customer relationships

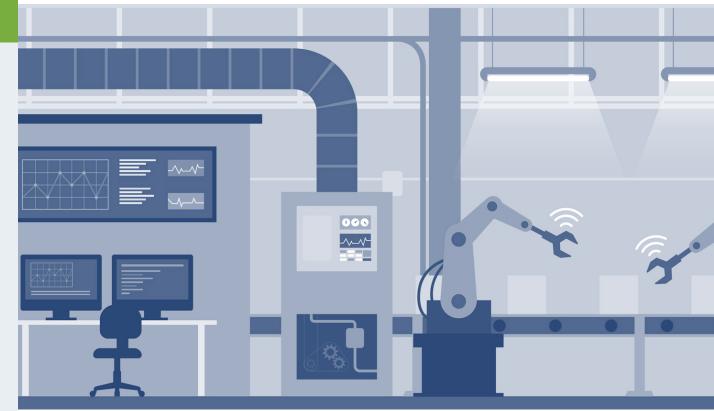


Source: Company Reports, Morgan Stanley, Credit Suisse Research, RBC Capital Markets, Internal Estimates
 Source: Omdia AC-DC and DC-DC Merchant Power Supplies Market Report, 2020 edition, Internal estimates

# INDUSTRIAL AND MEDICAL: 4<sup>TH</sup> INDUSTRIAL REVOLUTION FOR SMART APPLICATIONS

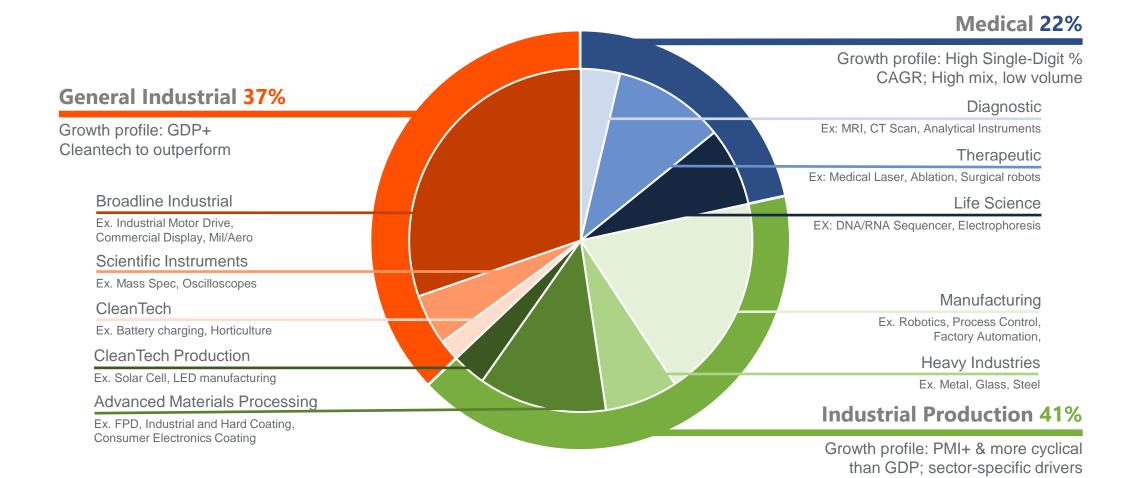


- Industry 4.0 related investments expected to grow at a 16.9% 2019-24 CAGR<sup>(1)</sup>
- Digital transformation and smart everything
- Increased use of artificial intelligence and digital functionalities in industrial and medical





# AE'S INDUSTRIAL & MEDICAL EXPOSURE



Advanced Energy

### ADVANCED POWER SOLUTIONS ENABLE "SMART EVERYTHING"



### SMART MANUFACTURING

- Proven flexible digital platform with software
- Enables customization, control and monitoring capabilities
- Connectivity and digital control functionalities



### HORTICULTURE SYSTEMS

- Patented system-level solution
- Transforming the industry with the lowest TCO
- Improves efficiency, reduces energy waste and increases the quality of crop yield



### ADVANCED MATERIALS PROCESSING

- Advanced power solutions enabling higher performance and lower costs
- Truly differentiated with machine learning-based controls
- Leading the way in IIoT integration with customer's system

Advanced

Enerav

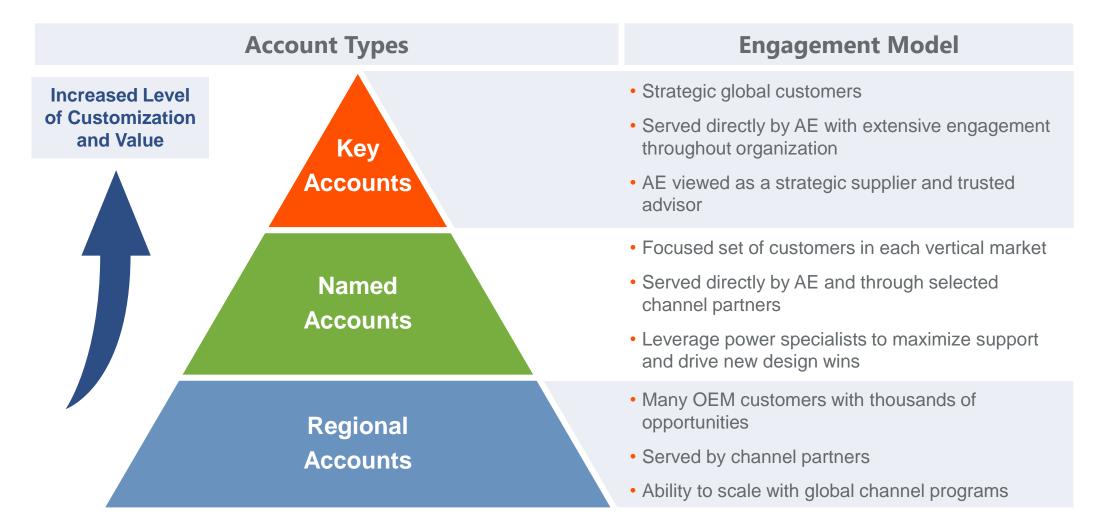
# CONFIGURABLE LEADERSHIP DRIVES GROWTH



- Configurable is a highly flexible platform using existing off the shelf modules to create custom solutions
- Broadest portfolio of medium to high power multi-output solutions

- Accelerates time to market by enabling our customer to quickly customize and easily integrate
- Advanced topology with fanless design ideal for medical applications

# AE GO TO MARKET STRATEGY



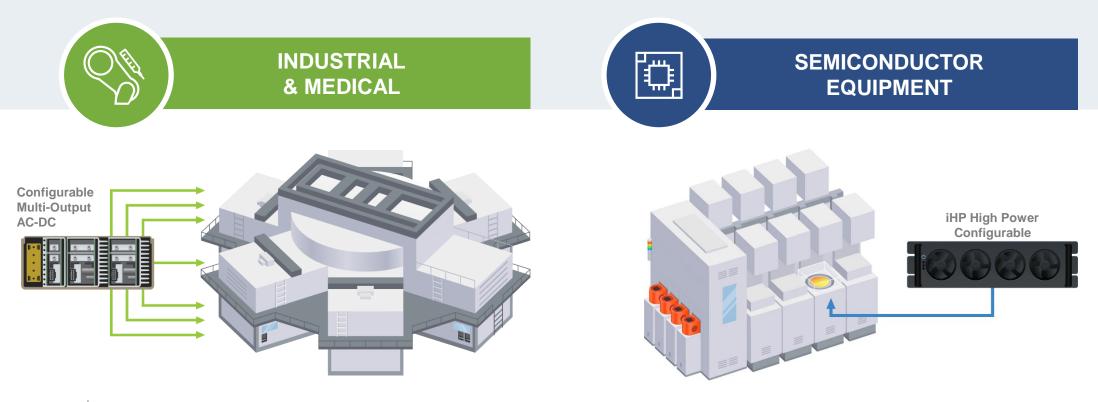


# LEVERAGING GLOBAL CHANNEL TO DRIVE GROWTH





# **INITIAL CROSS SELLING SUCCESS STORIES**



Wide range of opportunities across multiple end markets

### Industrial equipment design win:

- Multi-output configurable solution for auxiliary power in Flat Panel Display equipment
- Won due to AE's highly flexible design, monitoring capabilities and value-add features

### Semiconductor equipment design win:

- High power solution for heater in the electrostatic chuck within process chamber
- Won due to AE's reliable embedded power solution, connectivity and value-add features





# **REALIZING GROWTH POTENTIAL**

- Focused on key growth trends within Data Center Computing and Industrial & Medical markets
- Lead with technology and differentiated solutions to address the fastest growing parts of the markets
- Proven winning strategies and optimized channel
- Positioned to grow with the 4<sup>th</sup> Industrial Revolution



# Delivering Long-term Shareholder Value

PAUL OLDHAM

EVP AND CFO

### Introduction



## PLATFORM FOR EARNINGS GROWTH AND TOP TIER ROIC

- Record financial results & increased revenue diversity
- Accelerated earnings growth with 2020E EPS<sup>(1)</sup> up 2X from last year
- Synergies and accretion well ahead of target
- Balance sheet and cash flow enable growth and shareholder return
- Increasing aspirational goals and vision

### BUILDING UPON A STRONG FOUNDATION

- Leader in power for Semi
  Equipment
- Demonstrated ability to profitably expand into new industrial markets
- Best in class financial model
- Strong cash flow generation
- Deployed cash for shareholder return and growth



### STRENGTHENED COMPANY THROUGH SEMI DOWNTURN

- Remained profitable and operating cash flow positive in every quarter
- Invested for growth in R&D and factory capability
- Integrated prior acquisitions
- Streamlined SG&A and operating footprint
- Positioned for growth as markets recover



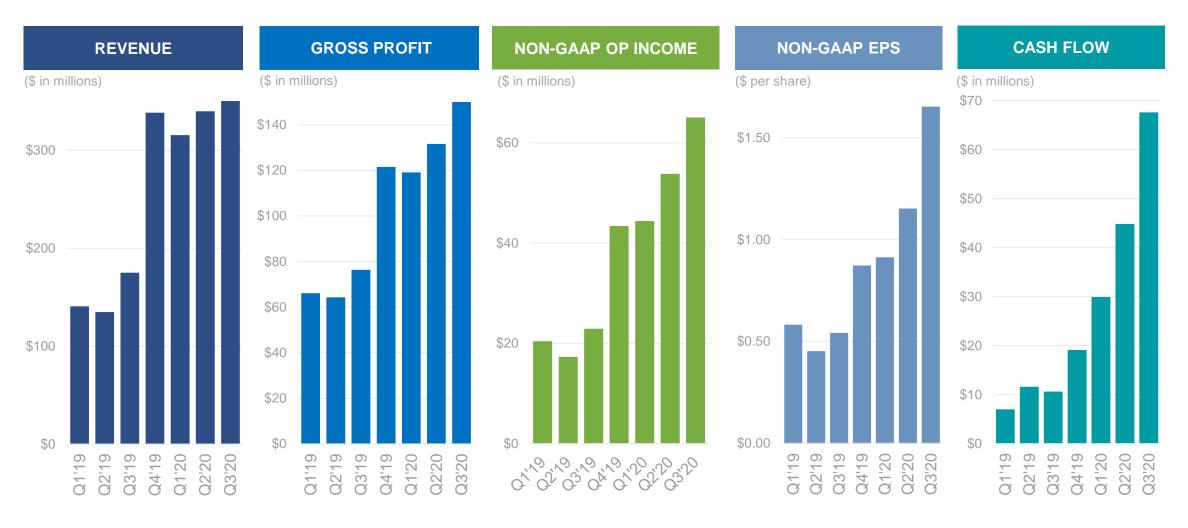
### PLATFORM FOR EARNINGS GROWTH & TOP TIER ROIC

- Acquired Artesyn Embedded Power
- Expanded addressable market
- Increased diversification
- Immediately accretive
- Synergies & scale drive accelerated earnings growth
- Lean operations enable top quartile return
   on invested capital
- Cash flow & balance sheet enable future acquisitions



### From 2019 Analyst Event Presentation

# DELIVERING RECORD FINANCIAL PERFORMANCE

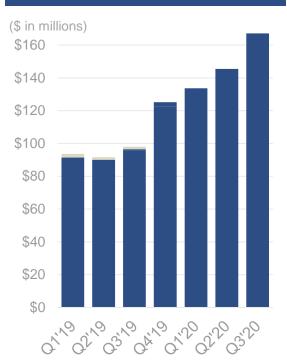




# **DIVERSIFIED PERFORMANCE ACROSS MARKETS**

INDUCTDIAL & MEDICAL

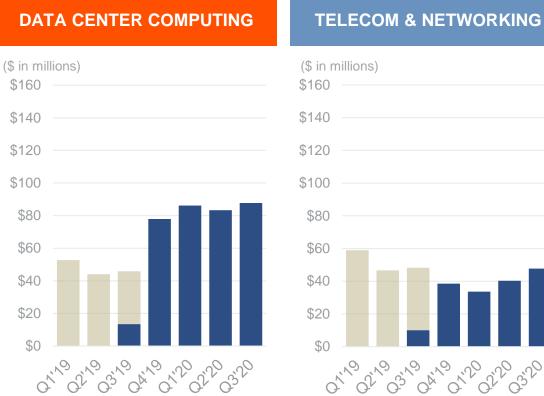
SEMICONDUCTOR EQUIPMENT



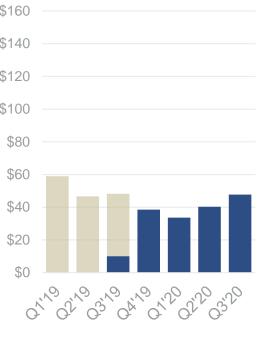
- **Record** Semi revenue
- Growing faster than WFE and peers
- Achieved first EP cross sale
- Semi remains strong

	JUST	<b>~</b> II		_
(\$ in millio \$160 —	ons)			
\$140 —				
\$120 -				
\$100 -				
\$80				
\$60 -				
\$40 -				
\$20 -				
\$0				

- Recovering post COVID decline
- Record medical revenue
- GDP improvement drives growth



- Record DCC revenue
- Up ~2x on hyperscale share gain
- Penetrated 3 hyperscale accounts
- Near term digestion above prior peak



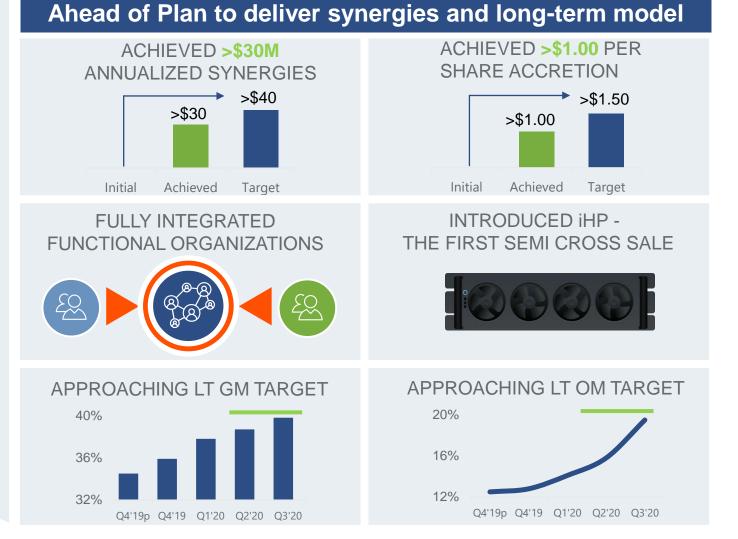
- Improving post COVID & geopolitical issues
- 5G content beginning to increase



AE Products Revenue

# ARTESYN INTEGRATION AHEAD OF SCHEDULE





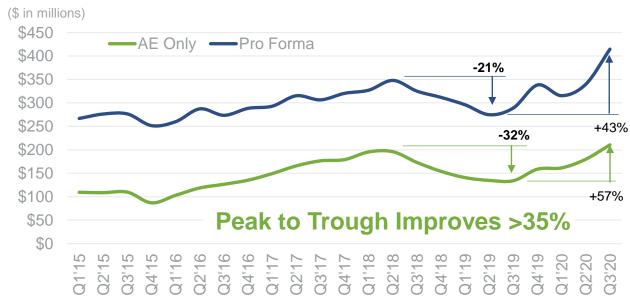


Note: Q4'19p represents original plans at the close of the Artesyn acquisition

# DIVERSIFIED REVENUE MITIGATES CYCLICALITY



### **Reduced Cyclically While Still Capturing the Upside**



- Broader end market exposure
- More than subsystems
- · Cycles do not move in tandem
- Larger industrial / medical exposure tied to secular / macro factors

### **Reduced Revenue Volatility**





### MOVING BEYOND SEMI EQUIPMENT SUBSYSTEMS TO **INDUSTRIAL GROWTH PEERS**



### **NEW INDUSTRIAL GROWTH PEERS**



## TOP-TIERED PERFORMANCE VS. INDUSTRIAL GROWTH COMPS

Target



Cash to Cash Days



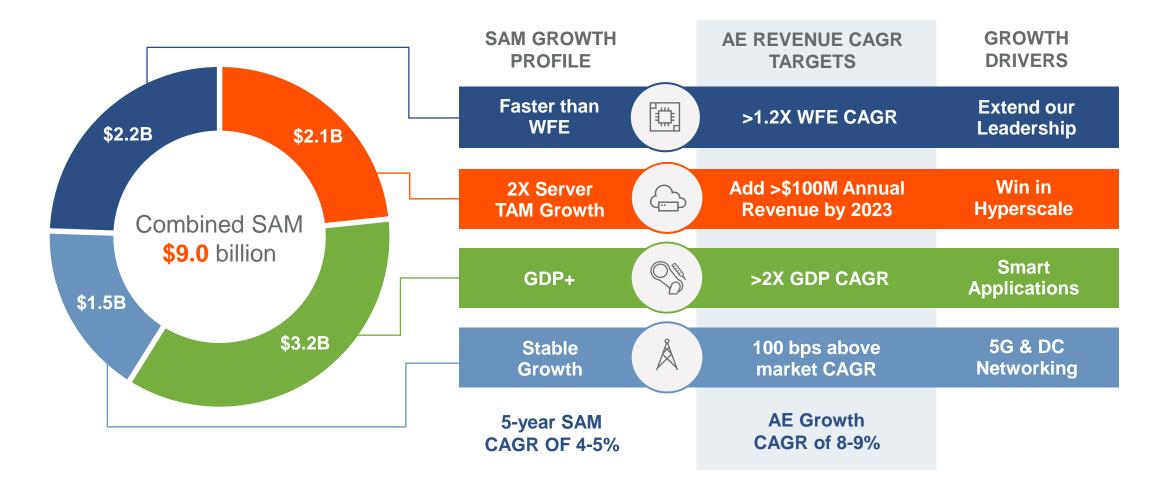
23.1% 19.5% 19.0% 15.7% 15.1% 14.7% 14.2% 13.9% 12.0% 7.6% 5.8%

### Adjusted Operating Margin

Return on Invested Capital



# TARGETING GROWTH ABOVE OUR MARKETS

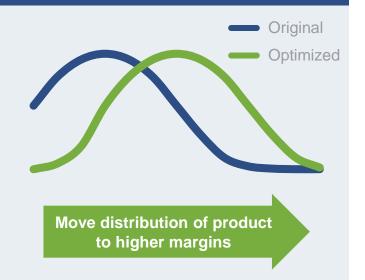




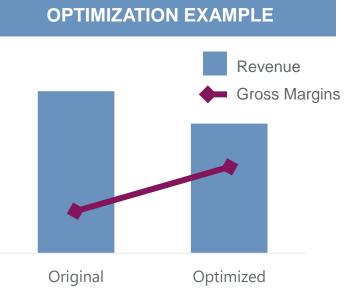
## PORTFOLIO OPTIMIZATION ACCELERATES EARNINGS GROWTH

PORTFOLIO

### OPTIMIZING PORTFOLIO TO ACHIEVE HIGHER PROFITABILITY



- Focused on improving margins of products
- Realizing initial benefits of a 3-year process
- Goal is to increase gross margins and improve returns on R&D dollars invested



- · Gross margins increased after optimization
- · Gross profit stable despite lower revenue
- Free up resources to focus on our customers' most valued solutions

# NET EFFECTS OF Original Optimized 2.9x 8-9% 5-6% Revenue CAGR EPS Multiplier

- Impact to revenue by ~2 pts, resulting in net revenue CAGR of 5-6%
- Increase profitability to targeted gross margins of >40%
- Earnings CAGR >2X of revenue CAGR



# ACCELERATE EARNINGS GROWTH





(1) Last 12 month reported non-GAAP EPS(2) This figure represents our aspirational goal and is not to be treated as guidance

## **UPDATED 3-YEAR ASPIRATIONAL GOALS**

	FROM 2019 AN	IALYST EVENT	2020 UPDATE				
	ORIGINAL PLAN AT ARTESYN CLOSE <sup>(1)</sup>	OLD ASPIRATIONAL GOALS	LAST 12-MONTH RESULTS	NEW ASPIRATIONAL GOALS			
Revenue (\$M)	\$1,240	\$1,500	\$1,383	\$1,650			
N.G. Gross Margins <sup>(2)</sup>	34-36%	40-41%	38.1%	41%			
N.G. Operating Margins <sup>(2)</sup>	9-12%	19-21%	15.7%	21%			
Cash Flow (\$M)	\$80	\$180	\$154	\$220			
Non-GAAP EPS <sup>(2)</sup>	\$2.72	\$6.50	\$4.62	\$7.50			
ROIC <sup>(3)</sup>	12%	23%	20%	23%			



(1) Annualized based on Q4 2019 guidance after the closure of the Artesyn acquisition

(2) Non-GAAP financial measures can be found at the back of this presentation

(3) ROIC calculated as Non-GAAP Operating Income After Tax divided by Invested Capital, which is defined as Total Assets less Cash, Payables, Accrued Expenses.

## LONG-TERM FINANCIAL FRAMEWORK

	3-YEAR ASPIRATIONAL GOALS	LONG-TERM ORGANIC FINANCIAL FRAMEWORK
Revenue	\$1,650	5-6% Net CAGR
Non-GAAP Operating Margins	21%	OPEX at ½ rev. CAGR 35-45% incr. margins
Non-GAAP EPS	\$7.50	>2.0X revenue CAGR
ROIC	23%	Maintain >20%



### LONG-TERM FINANCIAL FRAMEWORK + INORGANIC GROWTH

	3-YEAR ASPIRATIONAL GOALS	LONG-TERM ORGANIC FINANCIAL FRAMEWORK		INORGANIC GROWTH ASSUMPTIONS
Revenue	\$1,650	5-6% Net CAGR		Add ~\$500M
Non-GAAP Operating Margins	21%	OPEX at ½ rev. CAGR 35-45% incr. margins	4	>10% acquired margins
Non-GAAP EPS	\$7.50	>2.0X revenue CAGR		Accretive in Year 1
ROIC	23%	Maintain >20%		Targeted ROIC at >10%



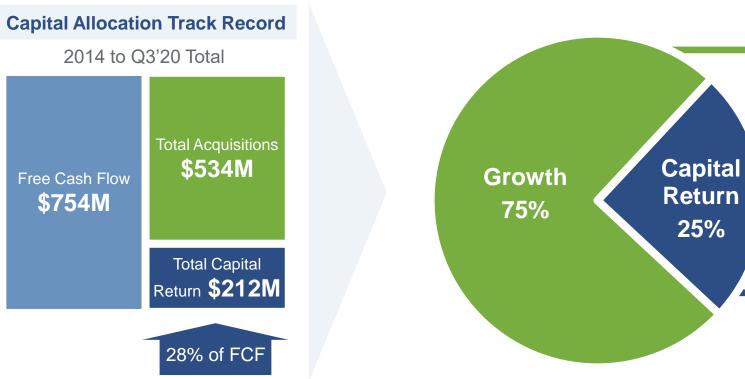
# LONG-TERM VISION

	3-YEAR ASPIRATIONAL GOALS	LONG-TERM ORGANIC FINANCIAL FRAMEWORK	INORGANIC GROWTH ASSUMPTIONS	LONG-TERM VISION (6-8 YEARS)
Revenue	\$1,650	5-6% Net CAGR	Add ~\$500M	\$2,500
Non-GAAP Operating Margins	21%	OPEX at ½ rev. CAGR 35-45% incr. margins	>10% acquired margins	21%
Non-GAAP EPS	\$7.50	>2.0X revenue CAGR	Accretive in Year 1	\$12.00
ROIC	23%	Maintain >20%	Targeted ROIC at >10%	>20%

CLEAR ROADMAP FOR CREATING LONG-TERM SHAREHOLDER VALUE



# UPDATED CAPITAL ALLOCATION PLAN



Allocation of Free Cash Flow

- M&A Engine with a disciplined process
- Building a solid funnel
- Maintain gross debt leverage at 1.0-1.5x, and comfortable raising to 2.5X
- Ample liquidity with an unused LOC of \$150M and accordion of \$250M

- Targeting to return ~25% of free cash flow generation to shareholders
- Maintain opportunistic share repurchase program
- Target to offset dilution over time



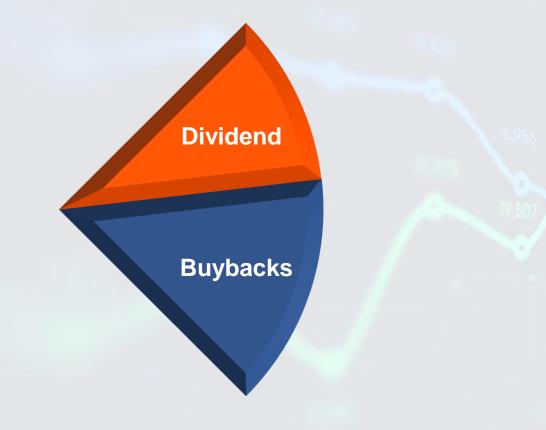
Position Balance Sheet to

support continued inorganic growth



# ANNOUNCING INITIATION OF QUARTERLY DIVIDEND

FCF allocated to Capital Return to Shareholders



### INITATION OF NEW DIVIDEND PROGRAM

### Starting in Q1 2021 Quarterly dividend of \$0.10/share\*

- Financial strength and scale supports an ongoing dividend
- Supported by strong cash flow
- Initial yield at ~0.4% with room to increase in the future
- Represents ~10% of Free Cash Flow



# POWERING THE 4<sup>TH</sup> INDUSTRIAL REVOLUTION



Data economy and digitization drive growth across our markets



### **ACCELERATING EARNINGS**

Targeting earnings growth at over 2X faster than revenue and an ROIC of over 20%





### **Yuval Wasserman**

President and Chief Executive Officer



Paul Oldham Executive Vice President

and Chief Financial Officer



Dana Huth

Chief Revenue Officer



**Edwin Mok** 

Vice President, Strategic Marketing and Investor Relations





### **NON-GAAP MEASURES**

Advanced Energy's non-GAAP measures exclude the impact of non-cash related charges such as stock-based compensation, amortization of intangible assets, and unrealized foreign exchange gain or loss on long-term facility lease and pension obligations, as well as discontinued operations and non-recurring items such as acquisition-related costs and restructuring expenses. The non-GAAP measures included in this release are not in accordance with, or an alternative for, similar measures calculated under generally accepted accounting principles 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. Advanced Energy believes that these non-GAAP measures provide useful information to management and investors to evaluate business performance without the impacts of certain non-cash charges and other cash charges which are not part of the company's usual operations. The company uses these non-GAAP measures to assess performance against business objectives, make business decisions, develop budgets, forecast future periods, assess trends and evaluate financial impacts of various scenarios. In addition, management's incentive plans include these non-GAAP measures as criteria for achievements. Additionally, the company believes that these non-GAAP measures, in combination with its financial results calculated in accordance with GAAP, provide investors with additional perspective. While some of the excluded items may be incurred and reflected in the company's GAAP financial results in the foreseeable future, the company believes that the items excluded from certain non-GAAP measures do not accurately reflect the underlying performance of its continuing operations for the period in which they are incurred. The use of non-GAAP measures has limitations in that such measures do not reflect all of the amounts associated with the company's results of operations as determined in accordance with GAAP, and these measures should only be used to evaluate the company's results of operations in conjunction with the corresponding GAAP measures.



### NON-GAAP RECONCILIATION – LAST 4 QUARTERS

FOUR QUARTERS ENDED

### Reconciliation of Non-GAAP measure - operating expenses and operating income, excluding certain items

		Septem	ber 30	),
		2020		2019
Gross profit from continuing operations, as reported Adjustments to gross profit:		508,615	\$	278,545
Stock-based compensation		605		531
Facility expansion and relocation costs		5,837		2016
Acquisition-related costs		12,140		1917
Non-GAAP gross profit		527,197		283,009
Non-GAAP gross margin		38.12%		46.79%
Operating expenses from continuing operations, as reported		366,175		226,789
Adjustments:		20.202		0.005
Amortization of intangible assets		-20,383		-8,665
Stock-based compensation		-11,336		-6,765
Acquisition-related costs		-13,159		-9856
Facility expansion and relocation costs		-2421		-297
Restructuring charges		-9,358		-7,456
Non-GAAP operating expenses		309,518		193,750
Non-GAAP operating income	\$	217,679		89,259
Non-GAAP operating margin		15.74%		14.76%

Reconciliation of Non-GAAP measure - income excluding certain items

#### FOUR QUARTERS ENDED

September 30,

	ooptonisor oo,				
		2020	_	2019	
Income from continuing operations, less noncontrolling interest, net of income taxes Adjustments:	\$	103,729	\$	65,205	
Amortization of intangible assets		20,383		8,665	
Acquisition-related costs <sup>(1)</sup>		25,650		11,744	
Facility expansion, relocation costs and other <sup>(2)</sup>		8,531		2,313	
Restructuring charges		9,358		7,456	
Tax Cuts and Jobs Act Impact		0		1,452	
Unrealized foreign currency (gain) loss		4,598		0	
Central inverter services business sale		1,067		-14,804	
Tax effect of Non-GAAP adjustments		-4,885		813	
Non-GAAP income, net of income taxes, excluding stock-based compensation		168,431		82,844	
Stock-based compensation, net of taxes	_	9,165		5,592	
Non-GAAP income, net of income taxes	\$	177,596	\$	88,436	
Diluted earnings per share from continuing operations, as reported Add back (subtract):	\$	2.69	\$	1.70	
Per share impact of Non-GAAP adjustments, net of tax		1.93		0.60	
Non-GAAP per share earnings	\$	4.62	\$	2.30	



### NON-GAAP RECONCILIATION – PAST FOUR YEARS

	Twelve months ended December 31						1,	
	2016		2017		2018		2019	
Revenue	\$ 483.7	\$	671.0	\$	718.9	\$	788.9	
GAAP Operating Income	\$ 126.9	\$	200.8	\$	171.6	\$	54.4	
Add back:								
Restructuring Charges	-		-		4.2		5.0	
Acquisition-related Costs	-		0.2		2.3		20.3	
Stock-based Compensation	6.3		12.5		9.7		7.3	
Amortization of Intangible Assets	4.2		4.4		5.8		12.2	
Facility Transition and Relocation Costs	 -		-		1.8		4.8	
Non-GAAP Operating Income	\$ 137.4	\$	217.8	\$	195.4	\$	104.0	
Non-GAAP Operating Margin % of Revenue	28.4%		32.5%		27.2%		13.2%	

	Twelve months ended December 31,						,	
	2016		2017		2018			2019
GAAP Income from Continuing Operations	\$	116.9	\$	136.1	\$	147.1	\$	56.5
Add back:								
Restructuring Charges		-		-		4.2		5.0
Acquisition-related Costs		-		0.2		2.3		20.3
Stock-based Compensation		6.3		12.5		9.7		7.3
Amortization of Intangible Assets		4.2		4.4		5.8		12.2
Loss on Foreign Exchange Hedge		-		3.5		-		-
Facility Transition and Relocation Costs		-		-		1.8		4.8
Incremental Expense Associated with Start-up of the Asia Regional Headquarters		-		1.1		-		-
Nonrecurring Tax (Benefit) Expense Associated with Inverter Business		-		(33.8)		-		-
Central inverter services business sale		-		-		-		(13.7)
Tax Cuts and Jobs Act Impact		-		72.9		5.7		-
Tax Effect of Non-GAAP Adjustments		(2.9)		(5.3)		(4.6)		1.5
Non-GAAP Net Income	\$	124.6	\$	191.5	\$	172.0	\$	93.9
Share Outstanding (Millions)		40.0		40.2		39.4		38.5
Non-GAAP EPS	\$	3.11	\$	4.77	\$	4.37	\$	2.44

