Advanced Energy

Investor Relations Presentation Morgan Stanley Technology, Media & Telecom Conference

March 2016

Safe Harbor

The company's guidance with respect to anticipated financial results for the first guarter ending March 31, 2016, expectations regarding future market trends and the company's future performance within specific markets and other statements 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. Forwardlooking 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; (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 accuracy of the company's estimates related to fulfilling Solar inverter product warranty and post-warranty obligations; (e) the company's ability to realize on its plan to avoid additional costs after the Solar inverter wind-down; (f) the accuracy of the company's estimates and assumptions on which its financial statement projections are based; (g) the impact of price changes, which may result from a variety of factors; (h) the timing of orders received from customers; (i) the company's ability to realize benefits from cost improvement efforts including avoided costs, restructuring plans and inorganic growth; (j) the company's ability to obtain in a timely manner the materials necessary to manufacture its products; and (k) unanticipated changes to management's estimates, reserves or allowances. 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 http://ir.advanced-energy.com or by contacting Advanced Energy's investor relations at 970-407-6555. Forwardlooking statements are made and based on information in the press release. Aspirational goals and targets discussed on the conference call or in the presentation materials should not be interpreted in any respect as guidance. The company assumes no obligation to update the information in the press release.



Driving Strong Shareholder Returns

Grow & Diversify Revenue Base

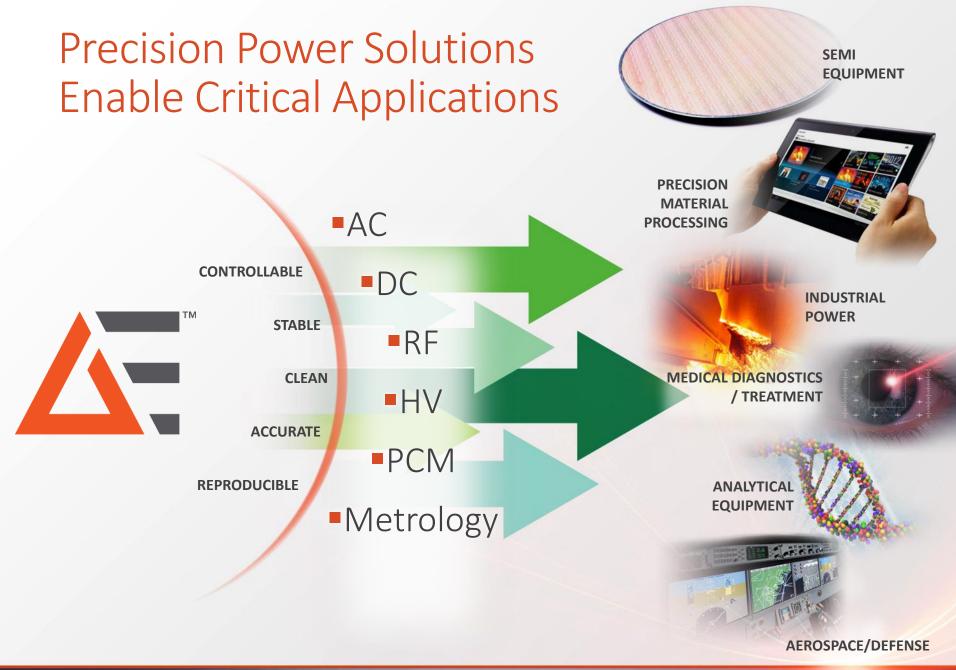
CAPITAL DEPLOYMENT STRATEGY

Integrated 3 Acquisitions

- Accelerated Growth In Semi
- Expanding Industrial Applications
- Capital Deployment Strategy Launched

Expand Margins







Highly Competitive and Differentiated Model

GROWTH OPINC CASH FLOW

Precision Power Conversion Focus, Leadership & Talent

Operational Excellence

> Global Footprint, Diverse Markets, Critical Applications



Precision Power Solutions Enabling Mobile Technology





Revenue Growth Vision

NEW APPLICATIONS

Industrial Power

Power Applications

High Voltage, High Power, Thermal Applications, Instrumentation, Environmental, Custom Power

ADJACENT APPLICATIONS

Industrial Thin Films

Geographic Expansion, Integrated Solutions Services

PV Solar – Deposition, Glass coating, FPD -Deposition/Etch, Industrial/Hard Coating, In-Line Optical, Measurements, Gas abatement

CORE APPLICATIONS

Semi

RF, DC, RPS, Deposition, Etch, Clean, Pyrometry, Integrated products

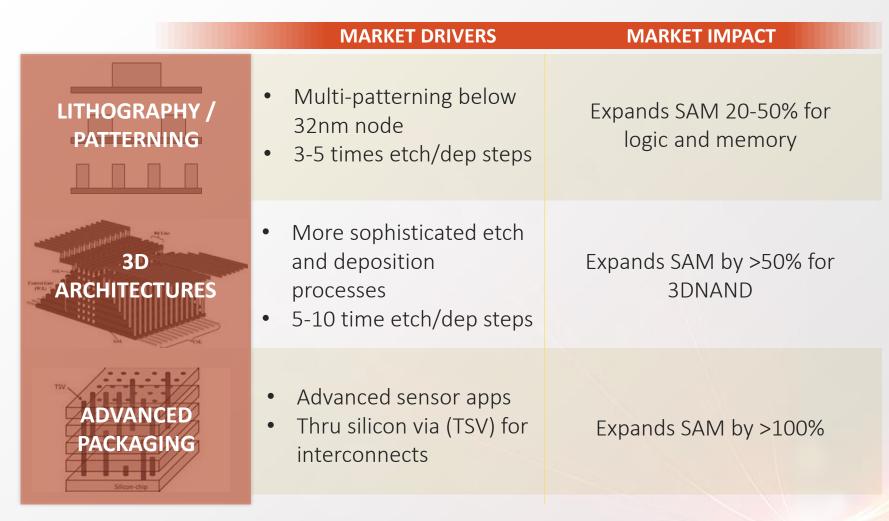


Mobility and the Cloud Driving Semi Growth Increasing Innovation and More Advanced Devices

- Exponential growth in Memory
- Smaller and faster Logic
- Lower power consumption requirements



Semi Drivers Increasing Etch and Deposition

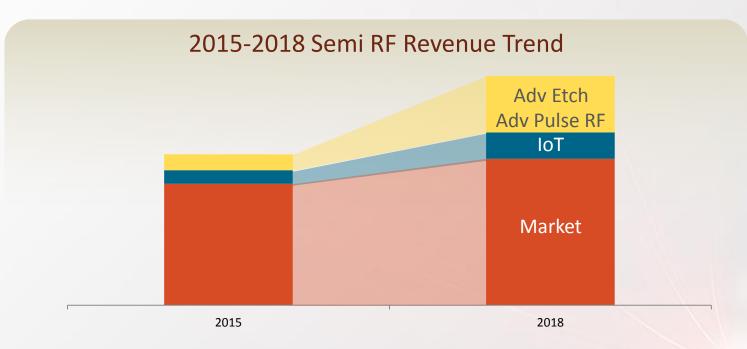


Forward-looking information believed to represent potential market size opportunity



Etch & Deposition Driving Growth in RF Power AE Outpacing Overall Semi Market

- Accelerating demand for Advanced Pulse RF solutions
- Increasing number of units and in RF content per unit
- Growing faster than the market



Forward-looking information believed to represent potential growth opportunity



Industrial Growth Strategy in Thin Films

APPLICATIONS	STRATEGY
Energy Efficiency Display Technologies	Drive fast adoption of advanced bipolar technology – Superior film performance – Superior cost of ownership – Retrofit large installed base
Consumer Electronics	Increase share with advanced pulsed DC – Better film properties – Higher deposition rates
Industrial Hard Coatings	Expand AE's Solvix hard coating solutions into new growth regions – India, China and North America



Industrial Growth Strategy in Power



APPLICATIONS

High Voltage Systems

High Voltage Modules (embedded HV)

STRATEGY

Focus on advanced HV applications

- Mass Spectrometry
- X-Ray (Industrial)
- Electron Beam

Increase share

- Channel and distribution
- New applications (e-chuck, Defense)

Thermal Applications

Geographical and applications growth:

- Channel partners (Rockwell, Siemens)
- Regional growth (U.S. China, India)
- Integrated solutions



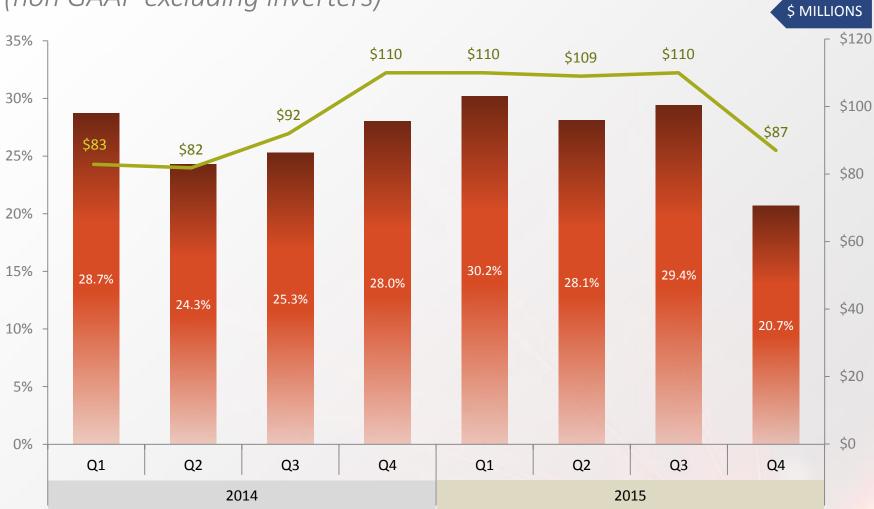
Continuing Value Growth Acceleration

- Enabling critical applications with advanced power conversion technology
- Leading in highest growth Semi sectors
- Increasing investment in organic growth (RD&E, S&M)
- Actively pursuing acquisitions to accelerate growth
- Growth strategy to increase revenue from \$400M to \$700M
- Significant earnings power through industry cycles



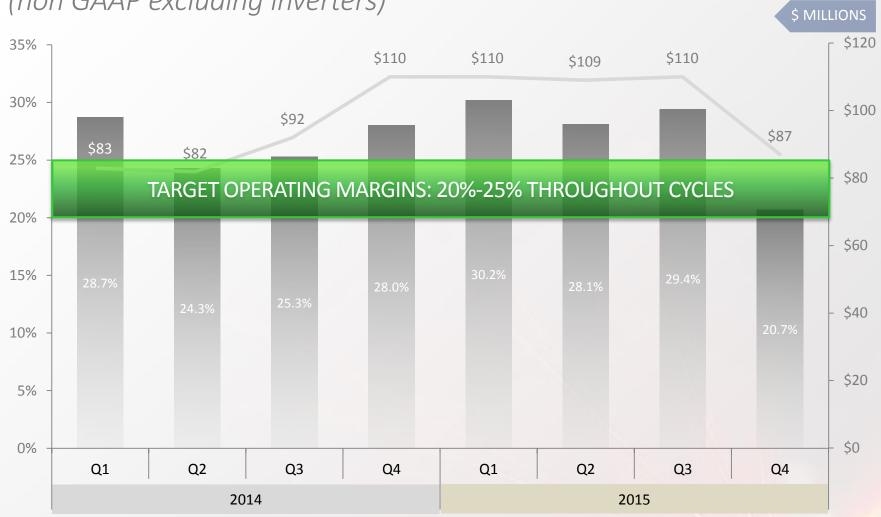
FINANCIALS

Healthy Revenues and Operating Margins (non GAAP excluding inverters)



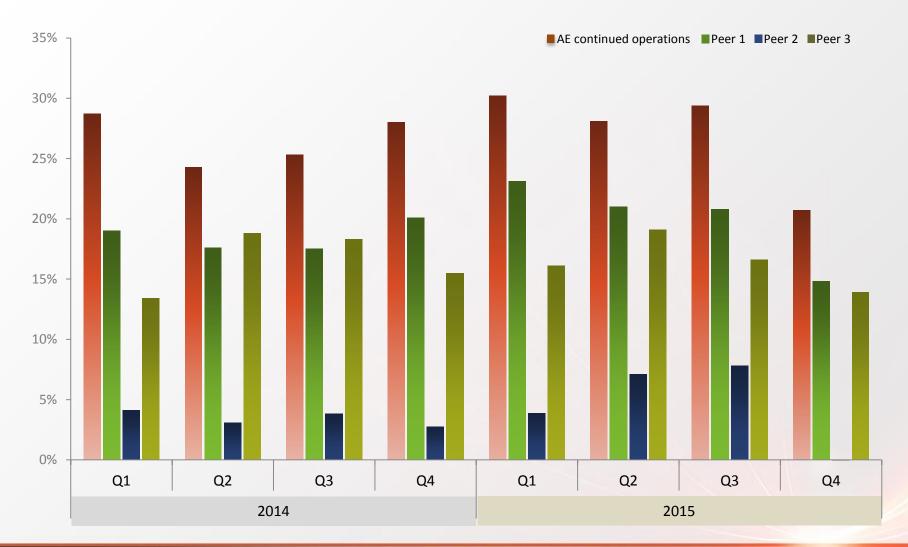


Healthy Revenues and Operating Margins (non GAAP excluding inverters)



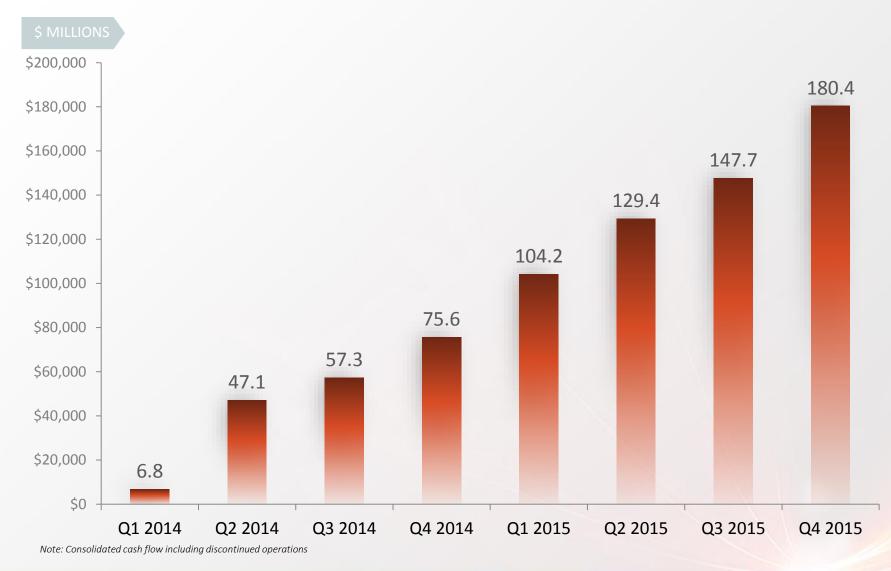


Operating Margins Outperform Peers (non-GAAP, AE excluding inverters)





Generating Healthy Cash Flows





Financial Strategy

OPTIMIZE COST STRUCTURE	 Reduce G&A and leverage structure during growth Low cost supply chain with annual cost improvements
REINVEST SAVINGS FOR GROWTH	 Support semi expansion during 3D ramp Drive industrial growth to expand geographies and markets
MANAGE CAPITAL STRUCTURE	 Reduce net working capital days Strengthen liquidity and flexibility of capital structure (debt)



Aspirational Financial Goals

Grow & Diversify

Generate & Deploy Cash

Revenue: **\$600-\$700M** Cash Generation: **\$250-\$300M** Non-GAAP EPS: **\$ 3.00 – \$3.50**

Protect Margins

Note: Please note that hypothetical scenarios regarding revenue growth, EBITDA, EPS, cash generation, acquisitions, aspirational goals and targets 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.



THANK YOU