



Forward Looking Disclaimer Statement

This presentation includes forward-looking statements and / or information, which are based on the Company's current expectations and assumptions, and are subject to a number of risks and uncertainties that could cause actual results to materially differ from those anticipated. Such risks include, among others, risk associated with competitive actions, technology development and implementation, intellectual property infringement, failure to integrate acquired businesses, penetration of existing markets, expansion into new markets, hiring and retaining high quality management and key employees and general economic conditions including the risks described in the Company's most recent annual / quarterly report, as applicable, on Form 10-K / 10-Q respectively, filed with the SEC, along with other unforeseen risks. Nothing that we say today should be interpreted as an update to the information or guidance that we provided in our most recent investor call, our most recent quarterly / annual report, as applicable, on Form 10-Q/10-K respectively, filed with the SEC, and our current reports filed with the SEC on Form 8-K since quarterly / annual report.





10:30 – 11:15 am **Product Roadmap Jörn Tinnemeyer**Vice President & CTO



11:45 – 12:15 pm Financial Outlook Michael Schmidtlein Executive Vice President and CFO

AGENDA

Overview and Vision

David ShafferPresident and CEO

9:45 – 10:15 am

Operational Excellence

Todd Sechrist

Executive Vice President
and COO



11:15 – 11:45 am
Asia Opportunities
Myles Jones
President, Asia

10:15 – 10:30 am Break









"Powering the Future Everywhere for Everyone."

At EnerSys, we pursue perfection to deliver Power to innovate and inspire.

Power delivered simply, safely and sustainably.

Power that creates superior value for our customer.

We are proud to be **EnerSys**.







David ShafferPresident and CEO



Todd Sechrist
Executive Vice
President and COO



Michael Schmidtlein Executive Vice President and CFO



Jörn Tinnemeyer Vice President & CTO



Jeff LongPresident, Americas



Holger Aschke President, EMEA



Myles JonesPresident, Asia



Joseph Lewis Vice President Chief Counsel



Don Martin Vice President & CIO



Sid Forrest Vice President Human Resources



Historical Earning Improvements

Adj. Net Earnings / Diluted EPS (\$ in Millions, except per share information)

Increased sales mix of premium products

Restructuring cost savings

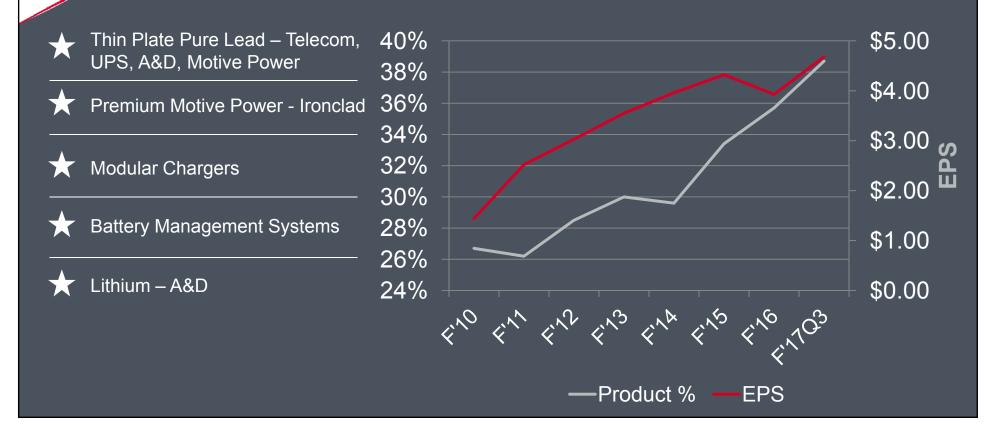
Market Leadership



Note - Adjusted earnings results exclude highlighted items.



Increasing Premium Products Mix



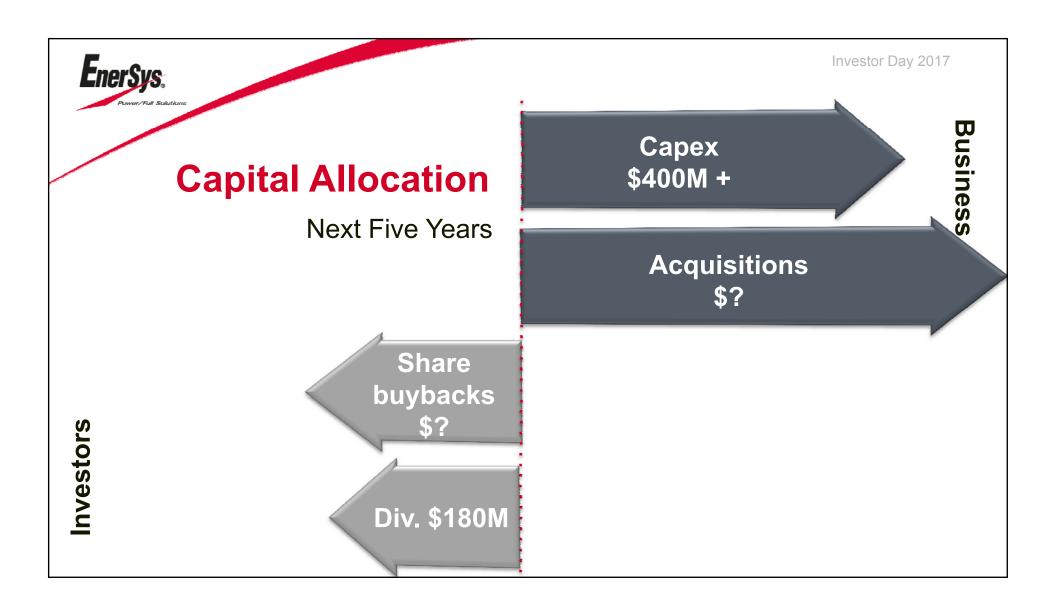


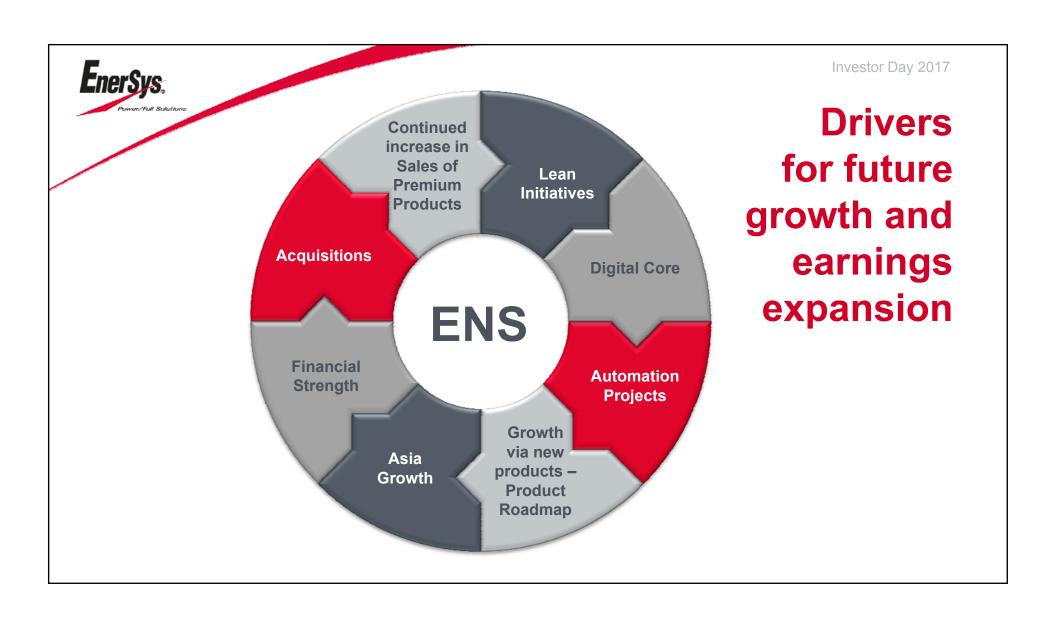
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EnerSys Today vs Last Investor Day

FY2013 to LTM Q3 FY2017

	FY2013	LTM Q3 FY2017	+1% CAGR	
Net Sales	\$2.3B	\$2.4B	+4% CAGR*	
Operating Earnings \$	\$0.26B	\$0.29B	+3% CAGR	
Operating Earnings %	11.3%	12.1%	+80 bps	
EPS –adjusted Earnings & EPS	\$3.55	\$4.50	+6% CAGR	*Excluding FX







Lean initiatives



Relentless elimination of waste



Enterprise transformation



Harmonize factories worldwide



Consultant Support



Software enhancements



Trends expanding backup power needs



Backup Power Systems

 Regulation requiring renewable energy storage



Electric Grid

 Electric Grid infrastructure having trouble keeping up with ever increasing demand



Datacenters

- Data usage increases Streaming/Facetime/ Videos
- UPS architectural change to faster backup – Premium product

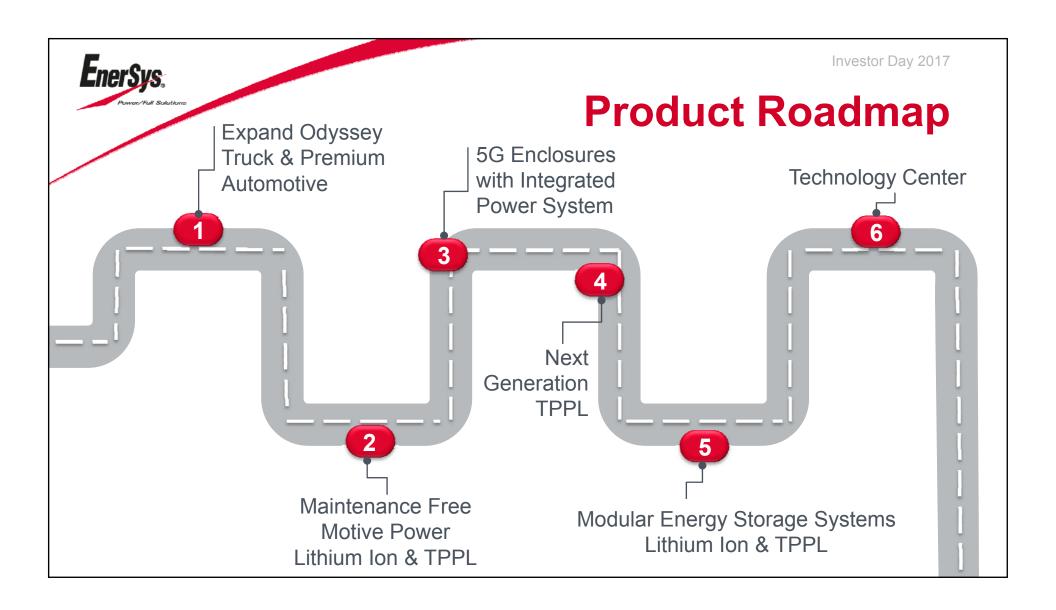


Vehicles

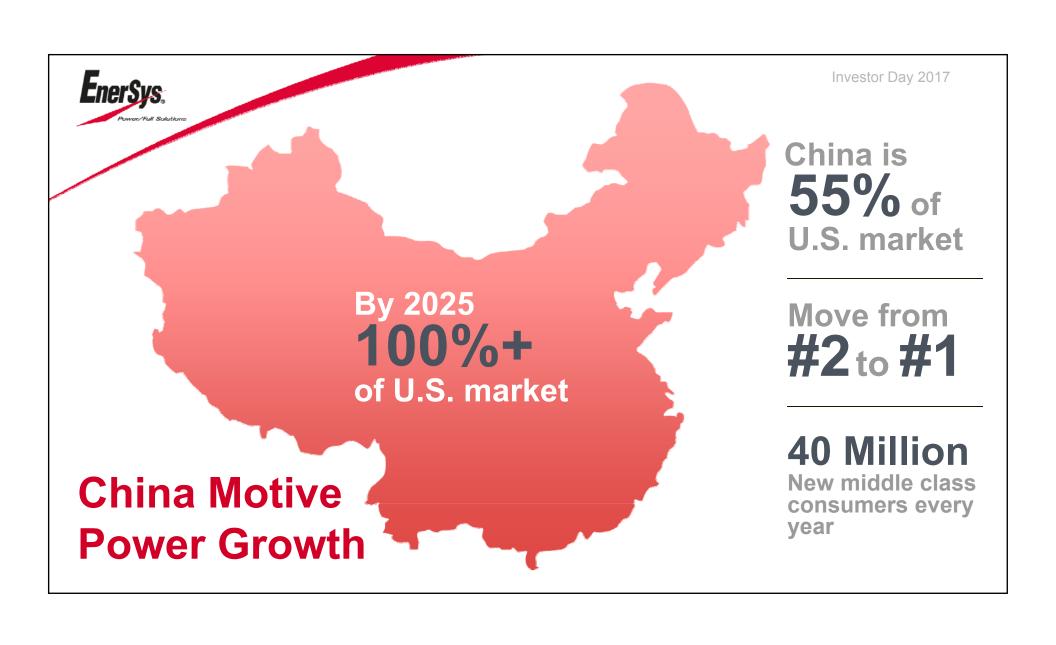
Trucks | Buses | Fire Engines | Police Cruisers

 Commercial Fleet heavier electric loads

 Truck, Emergency response, Refrigeration, APU



Investor Day 2017 **EnerSys. Targeted Opportunities** Energy **Expand Addressable** Storage Market by 50% Systems Commercial Trucks \$9.3B \$14B+ A&D China and India Share **Current Market Future Market**



Investor Day 2017

India has

#2

Mobile subscription (1.1 B)

Digital India

Universal access to mobile content

Telecom and Digital India

Drive growth in UPS



U.S. mobile subscriptions

India Reserve Power Growth

Investor Day 2017

Operating Margin Expansion

YTD Q3 FY17
12.4%

EnerSys.

200+ bps

- Organic Growth
- Premium Mix
- Lean Initiatives
- New Products



Key Takeaways

- New Product Development increases technology edge over competitors
- Lean Initiatives lower cost and decrease lead times to increase market share
- Operating Margins expand 200+ bps
- Strong Balance Sheet enables capital deployment
- Significant opportunities in China and India







Create & Exploit a Digital Core



Operational Excellence Priorities



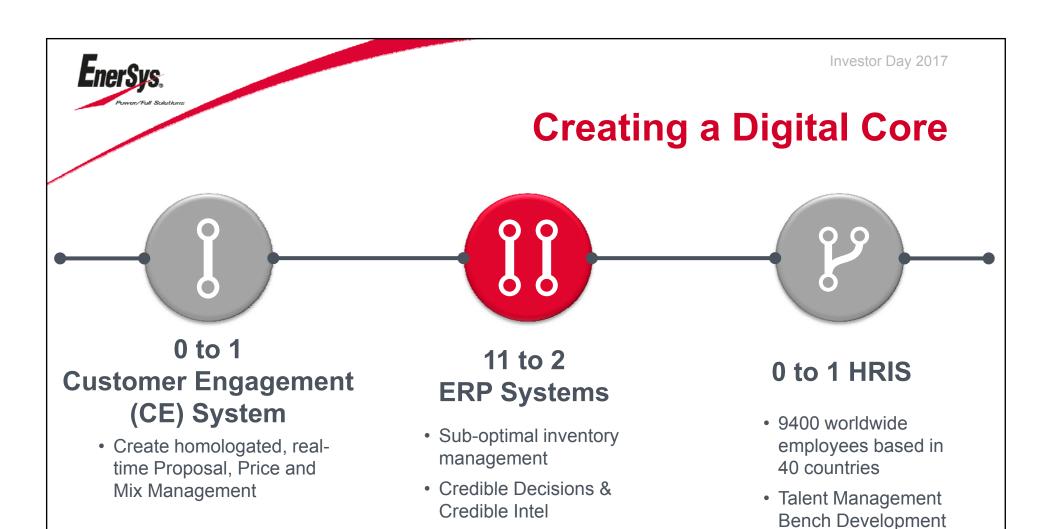
Create the EnerSys Operating System - EOS

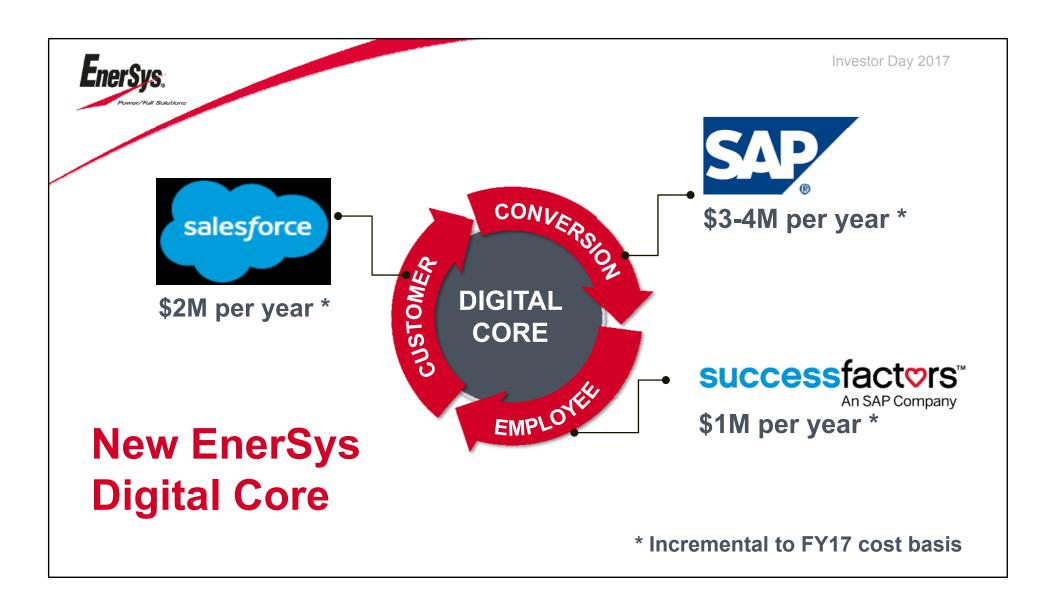
> **Create Productivity & Capacity – Automation**

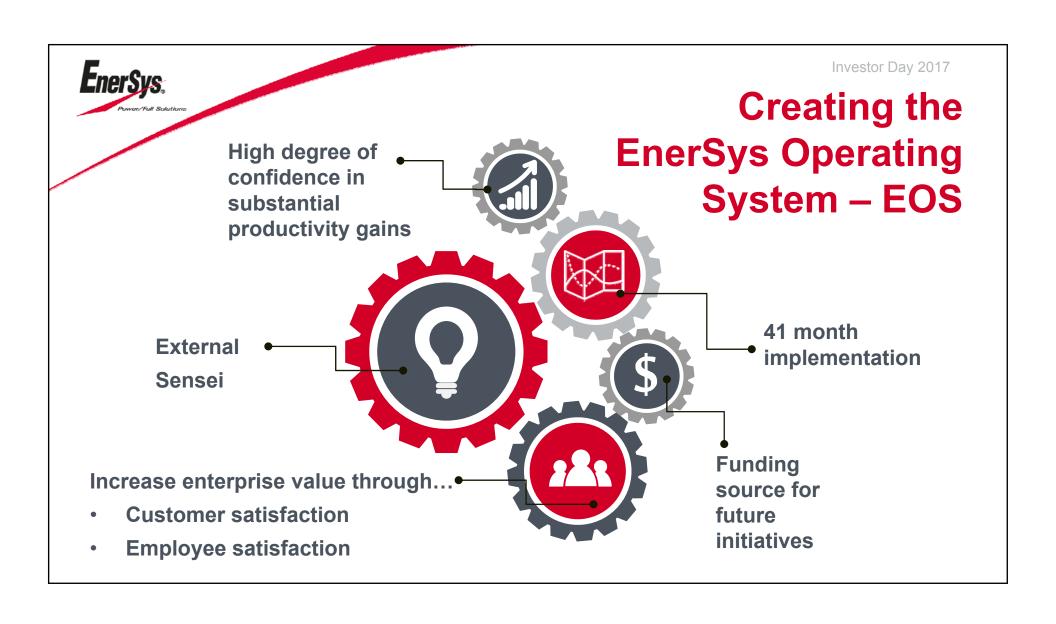


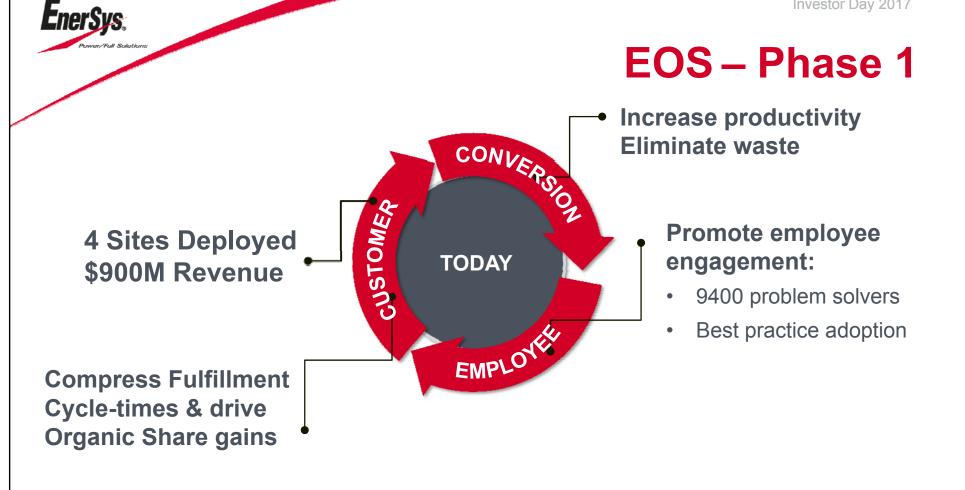


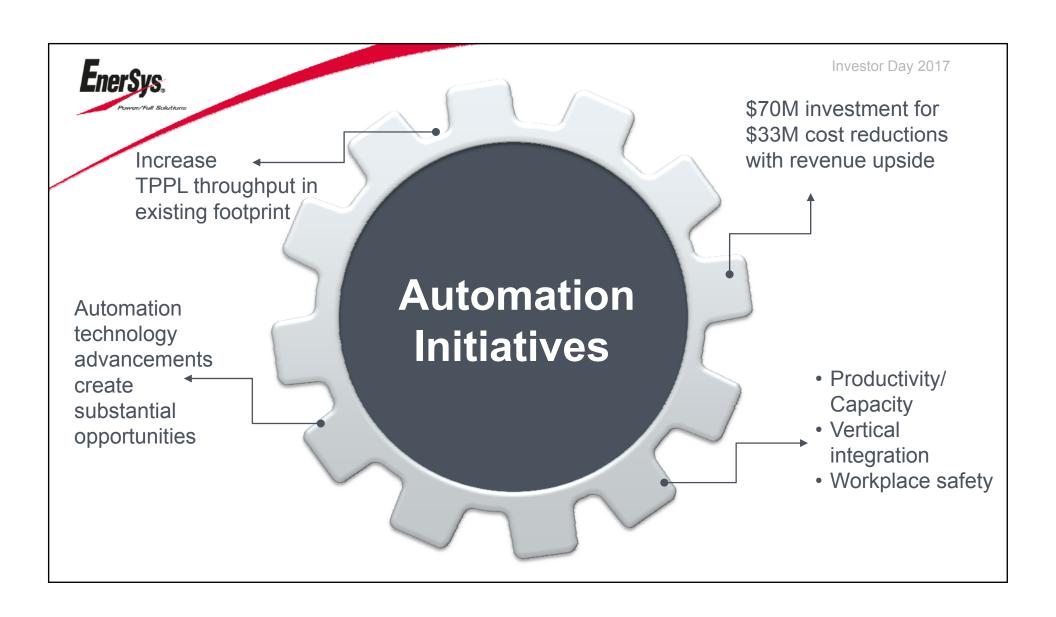
Deliver 2% Cost Improvement

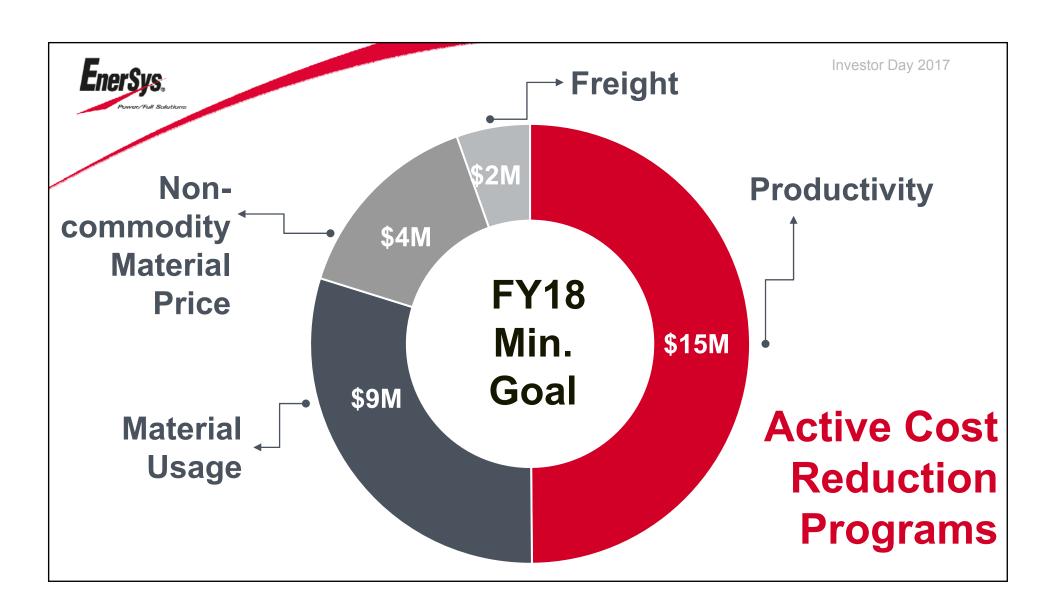


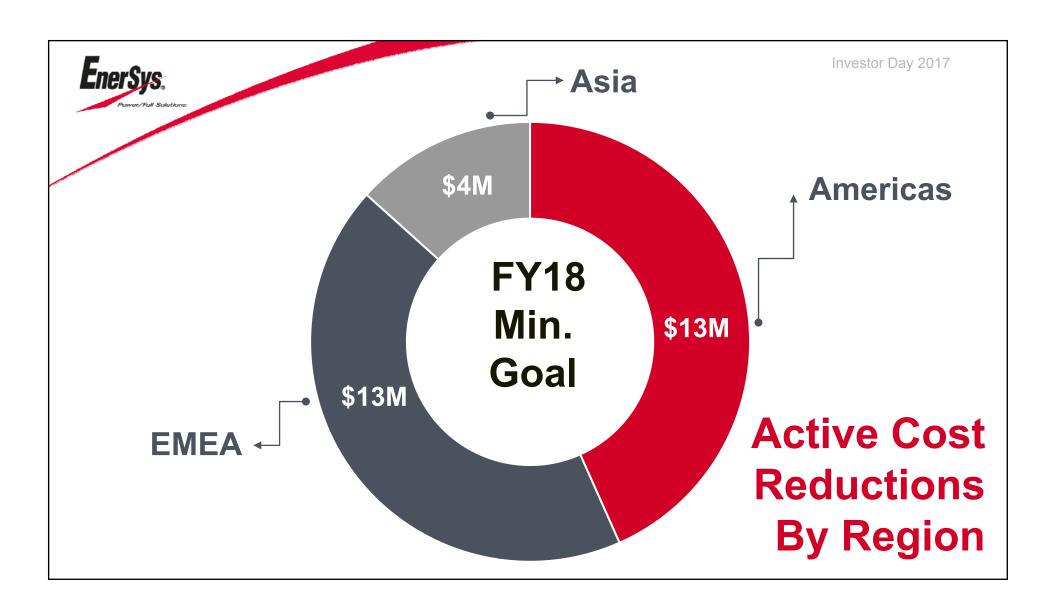


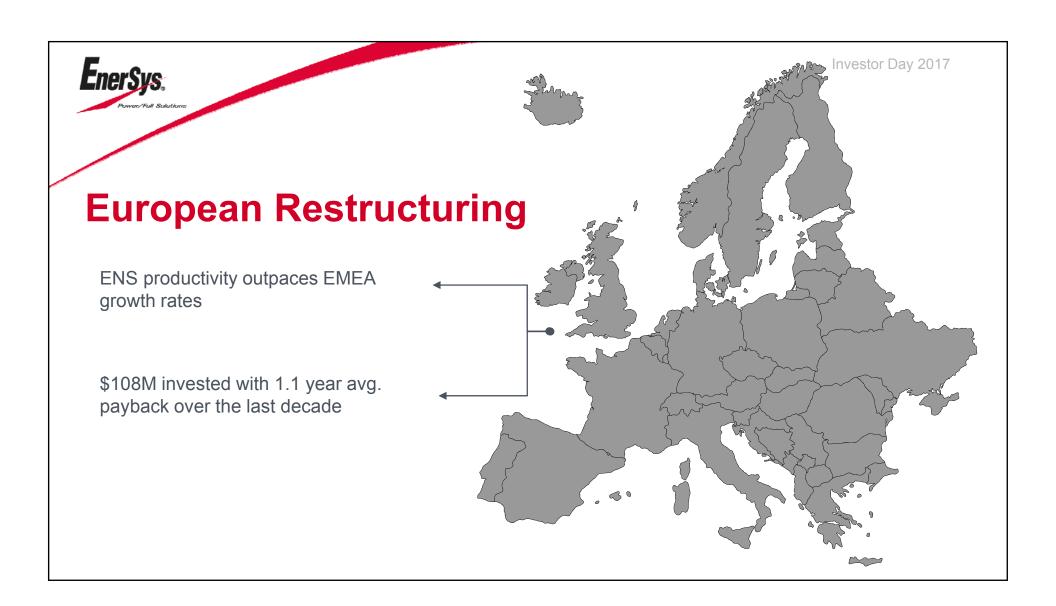














Key Takeaways – Operational Excellence

- Digital Core automates customer experience from quote to delivery
- Lean Initiatives to relentlessly eliminate waste and compress cycle times
- Allocate additional CapEx on global harmonization and automation
- Improve Operating Earnings by at least 200 bps



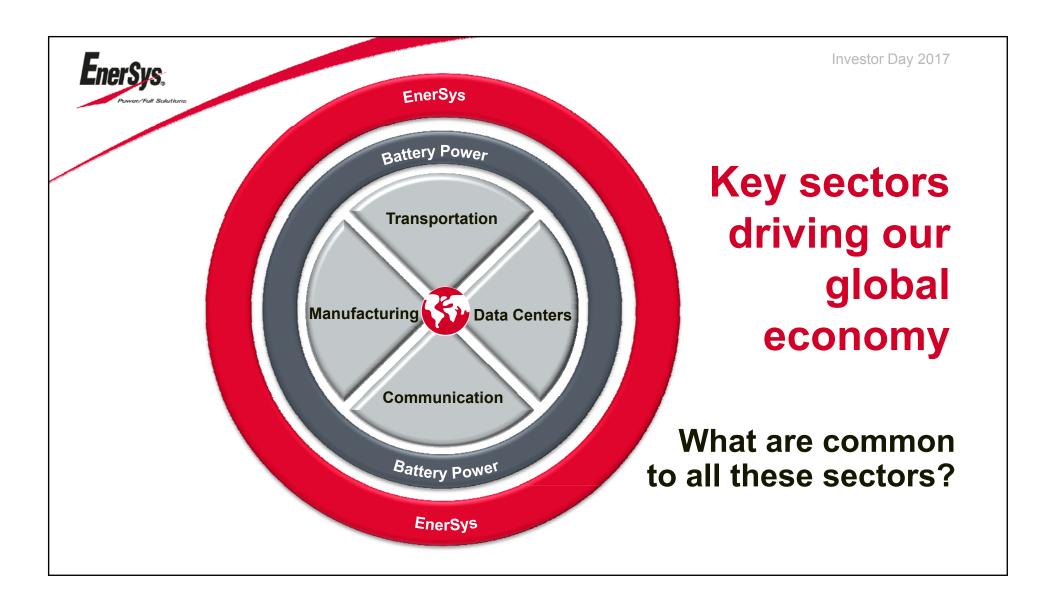




Overview

- Continued advancement of lead technologies
- Expand lithium from A&D into broader Industrial markets
- Enhancing product portfolio for new markets including ESS
- Larger emphasis on system engineering and modular kit development

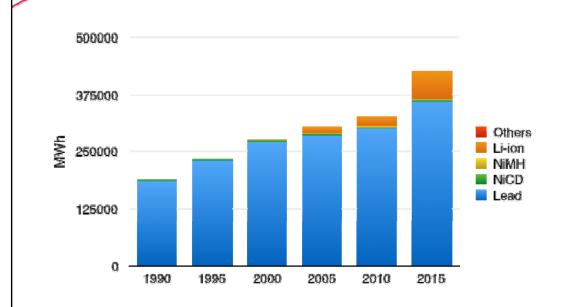






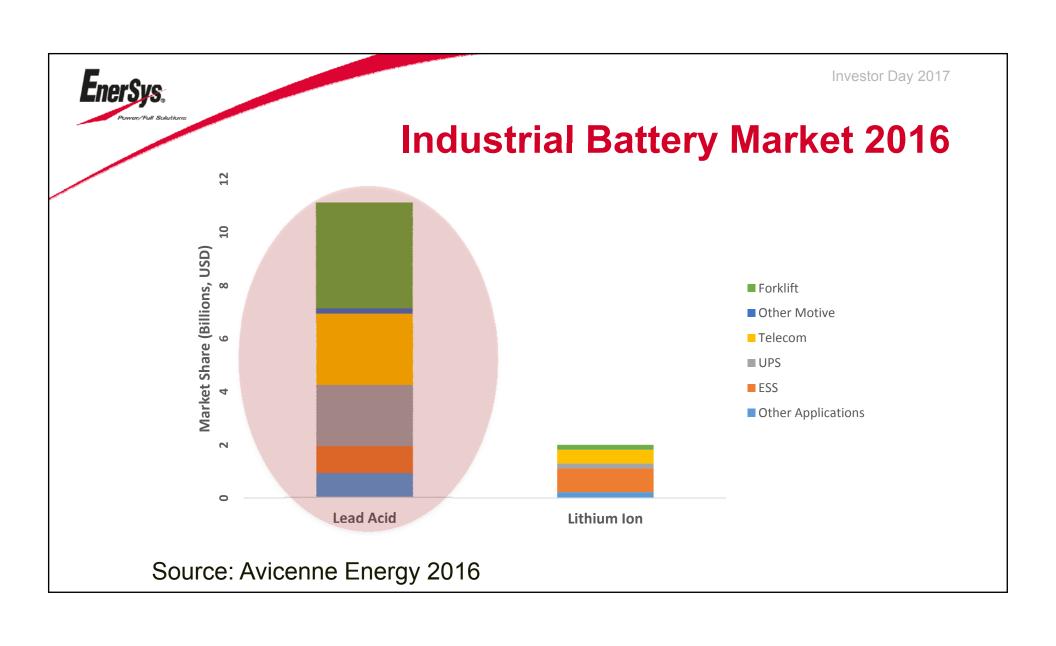


Worldwide Secondary Battery Market



- 2015 Secondary Battery market \$65B
- Battery market still highly dominated by lead (90% market share)
- Increase in lithium based technology is demonstrating exponential growth (CAGR 2005/2015 +22%/year)

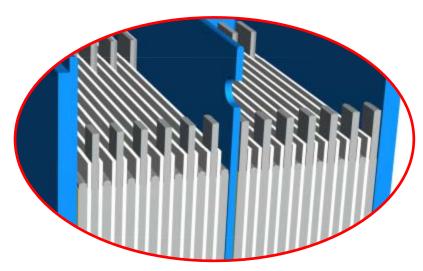
Source: Avicenne Energy 2016





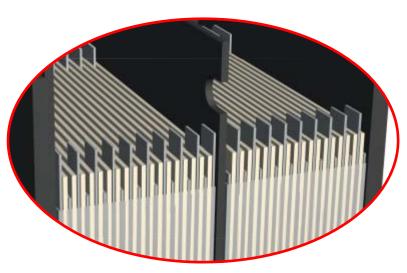


What is Thin Plate Pure Lead (TPPL)?



Traditional

- 13 Plates per Section
- 0.5m²
- 550Wpc



TPPL

- 21 Plates per Section
- 0.8m²
- 706Wpc



TPPL – Pure Lead Crystallography

- Thinner grids allow for a higher energy density within the same footprint
- Very fine grain structure makes the grid far more resistant to corrosion
- Promotes surface area reaction
- Dramatically lowers resistance



Next Generation TPPL

Property	TPPL (Extreme)	Next Gen TPPL*
Energy Density (C20 Rated)	34 Wh/Kg	53 Wh/Kg
Power Density	730 W/Kg	1200 W/Kg
Cycle Life (100% DoD to 50% BoL)	300	780
Vibration Life (SAEJ930 – L2)	10-30 hours	620 hours

For the same size, more energy content=longer stand times without the need for engine idle More cranking power for the weight – better engine start

Longer battery life for improved TCO

Will withstand harsher environments allowing for large application range

*Prototype





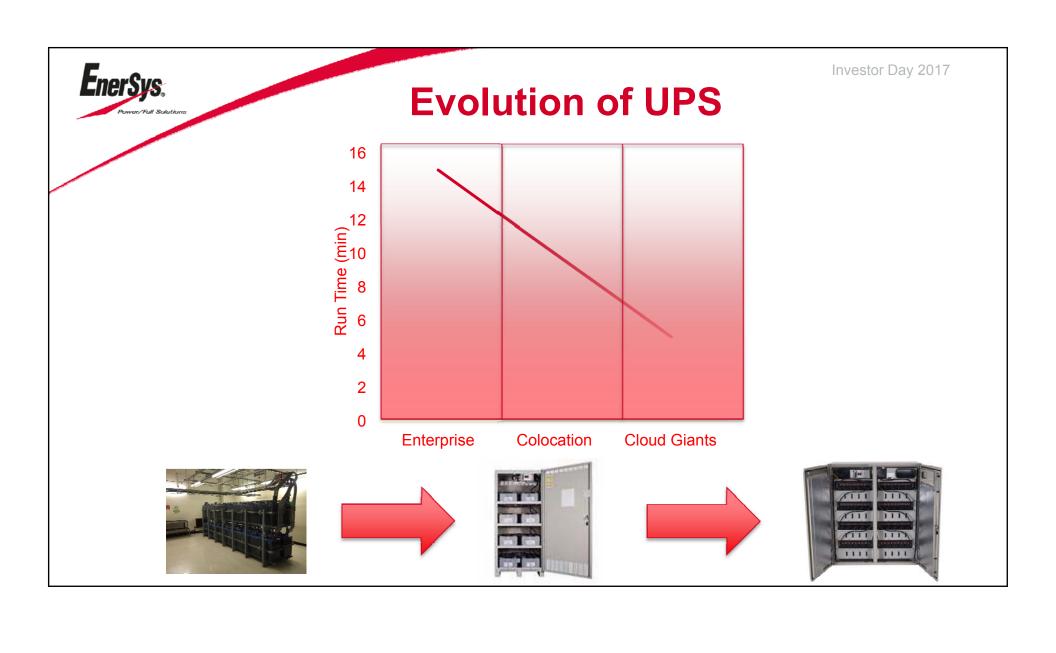
EnerSys Keeps Data Flowing

Utility grid is 99.99% reliable, what about the remaining 0.01%?

Number of servers are increasing requiring more power.



We are designing high energy density UTPPL to support.

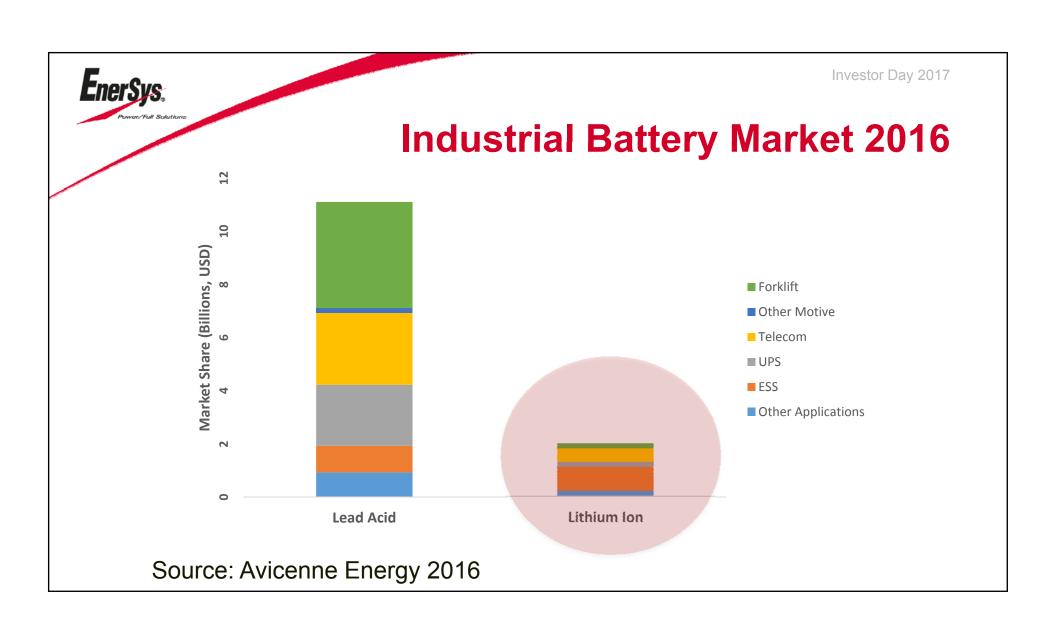




UPS Evolution

Туре	Flooded	TPPL	UTPPL
Description	4DXC17B	XE95	Prototype
Number of blocs	60	160	120
W/Kg	44	140	190
W/L	145	394	500
Area (ft ²)	255	90	63
System Cost (USD per KWHr)	100%	72%	62%
Life Expectation Yrs	8-12	8	8
Maintenance Free	No	Yes	Yes

System: 750 KW Battery, 5 min







Yesterday Most cells produced economically were small format Extensive usage of large format cells





	Yesterday	Today
X	Most cells produced economically were small format	✓ Extensive usage of large format cells
X	Limited variation available – only consumer LCO was produced at high volume	✓ Advanced NMC with high energy density





	Yesterday		Today	
X	Most cells produced economically were small format	✓ Ext	ensive usage of large format o	cells
X	Limited variation available – only consumer LCO was produced at high volume	✓ Ad\	vanced NMC with high energy	density
X	18650 cell cost was valued at 345 USD/KWh		omotive OEMs are pushing thustry to offer increasingly lowe	





 X Most cells produced economically were small format ✓ Extensive usage of large format X Limited variation available – only consumer LCO was produced at high volume ✓ Advanced NMC with high volume X 18650 cell cost was valued at 345 USD/KWh ✓ Automotive OEMs are prindustry to offer increasing 	
was produced at high volume x 18650 cell cost was valued at 345 USD/KWh ✓ Automotive OEMs are p	energy density
	<i>,</i>
	9
x Safety strategy primitive with limited monitoring ✓ Functional safety hardw with ISO26262 coupled designs	. 0, ., 0



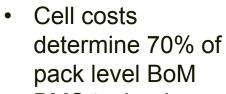


	Yesterday		Today
X	Most cells produced economically were small format	✓	Extensive usage of large format cells
X	Limited variation available – only consumer LCO was produced at high volume	✓	Advanced NMC with high energy density
X	18650 cell cost was valued at 345 USD/KWh	✓	Automotive OEMs are pushing the battery industry to offer increasingly lower pricing
X	Safety strategy primitive with limited monitoring	✓	Functional safety hardware topology complying with ISO26262 coupled with enhanced cell safety designs
X	Low cyclic capability increases cost of ownership and limits applications	✓	High cyclic capability (+8000) at 75% BoL @ 80% DoD

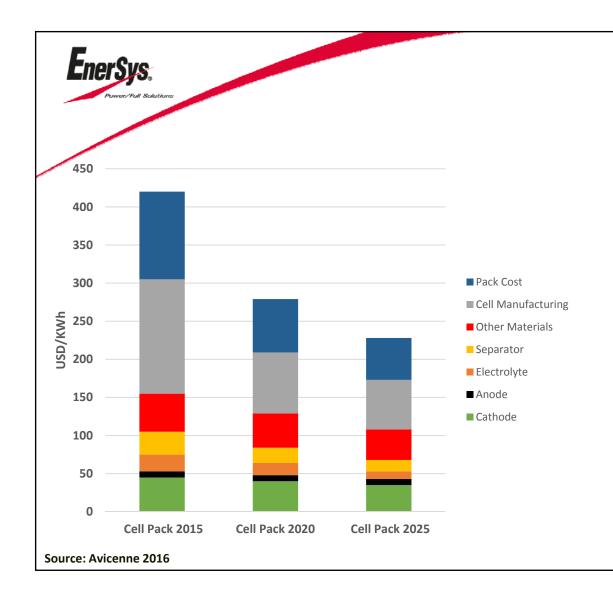


Make VS **Buy**

BoM Dilution



 BMS technology is commoditized





Make VS **Buy**

Advantages

- Able to access a number of suppliers
- Using supplier R&D to develop new cell technology
- Expand product portfolio as market adapts without large CapEx

Supply Risks

- Quality control of cells
- Possible import duties
- Domestic sourcing
- Cell availability
- Technology transfer

Source: Avicenne 2016



Make vs Buy

We would make if the cell:

- BoM cost must be competitive,
- could be made in existing facilities,
- demonstrates enhanced safety,
- production CapEx scales to market adoption.





EnerSys provides energy when needed

ESS is the largest growing market in industrial storage.

ESS must provide a complete energy management solution.



EnerSys will provide the best energy solution for the application.



What resources do we need for a lithium ESS solution?

Energy Storage Systems

Program Management

Housing	User Application	Financial Modeling	Site Contractor
Enclosure	Cloud Services	Building Codes	PCS
BMS	Electrical Codes	Wiring Harness	EMS
Thermal Engineering	Mechanical Engineering	Quality Engineering	Electrical Engineering
Functional Safety	Hardware	Software	Firmware
Lead	Lithium	Algorithm Development	Validation



What would we need for a motive lithium solution?

Forklift

Program Management

Housing	User Application	Financial Modeling	Site Installer
Enclosure	Cloud Services	Vehicle Integration	CAN Interface
BMS	Electrical Codes	Wiring Harness	EMS
Thermal Engineering	Mechanical Engineering	Quality Engineering	Electrical Engineering
Functional Safety	Hardware	Software	Firmware
Lead	Lithium	Algorithm Development	Validation



The difference is minimal

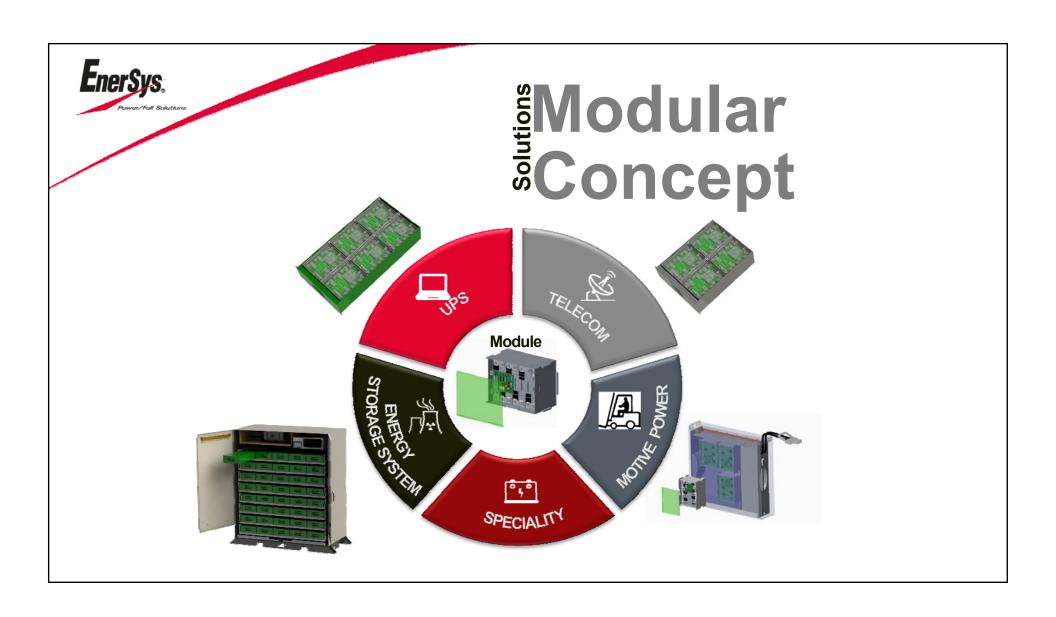
Forklift

Program Management Energy Storage Systems

Program Management

Housing	User Application	Financial Modeling	Site Installer
Enclosure	Cloud Services	Vehicle Integration	CAN Interface
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Housing	User Application	Financial Modeling	Site Contractor
Enclosure	Cloud Services	Building Codes	PCS
BMS	Electrical Codes	Wiring Harness	EMS
Thermal Engineering	Mechanical Engineering	Quality Engineering	Electrical Engineering
Functional Safety	Hardware	Software	Firmware
Lead	Lithium	Algorithm Development	Validation





If the application requires

- Limited to daily partial cycling (peak shaving, demand charges)
- Space is somewhat confined
- No maintenance
- Restrictions (e.g. fire code)
- Remote monitoring

Next Generation TPPL





Parameter	Value
Price (USD/Wh/L)	1.13
Cycle Life (80% BoL with 80% DoD)	800
Relative Price	52%
TCO (Cents/Wh/L/Cycle)	0.14

Next Generation TPPL





If the application requires

- Significant cycling (PV, demand charges, high load profile)
- Space is very confined
- No maintenance
- No restrictions (e.g. fire code)
- Remote monitoring

Li-Ion System





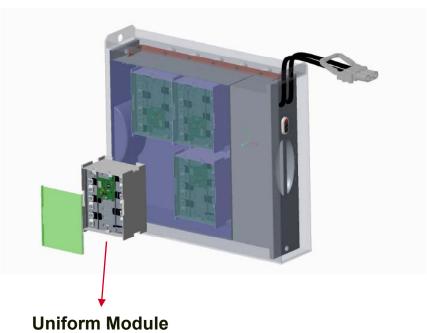
Parameter Price (USD/Wh/L) Cycle Life (80% BoL @ 6000 100% DoD) Relative Price TCO (Cents/Wh/L/Cycle) Value 1.56 1.56 1.56 1.50

Li-Ion System





Modular Kit – Motive Power



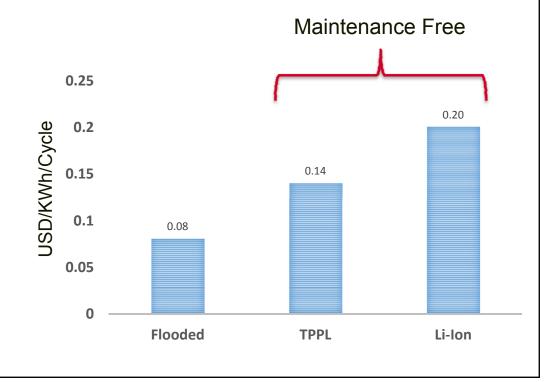


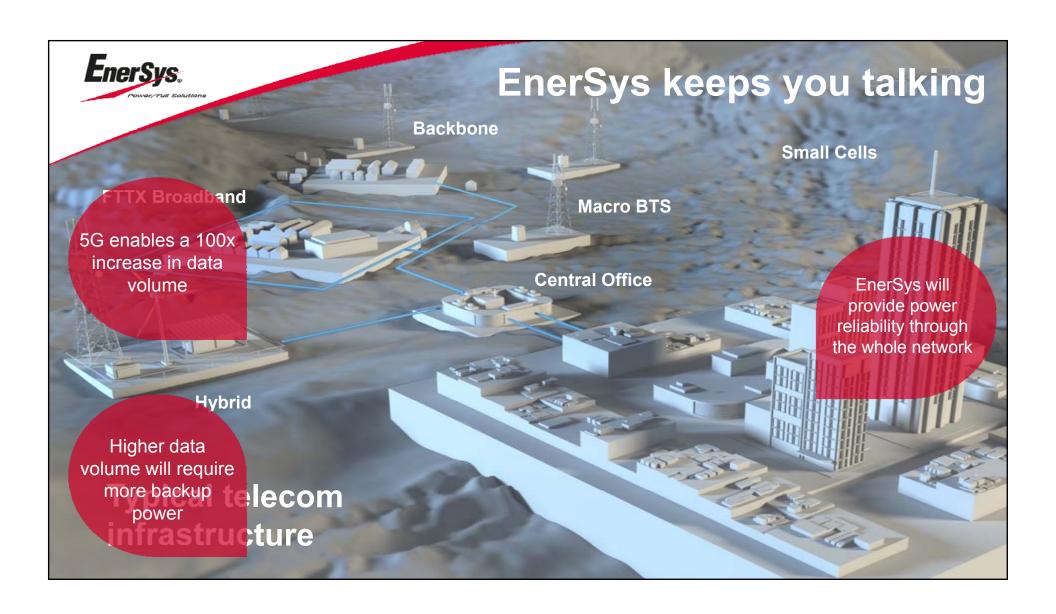
Modular Kit – Motive Power

From 2.8KWh up to 40KWh



Class III: Comparison for similar battery capacity using same tray







Modular Kit – Communication

5G48V Lithium or Advanced Lead

Lithium Module







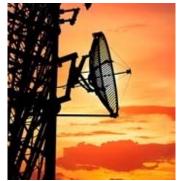
Faster, Leaner, Better

Using a modular design, we will develop new complex products with the quality and performance our customers expect.











Investor Day 2017



Making It Happen

Key individuals will be centralized



Emphasis on software and systems level development

Incremental investment of up to \$5M

New competencies:

- Energy Storage Systems
- Advanced Manufacturing
- Global Project Management

EnerSys Global Technology Center



Key Takeaways

- Continued advancement of lead technologies
- Expand lithium from A&D into broader Industrial markets
- Enhancing product portfolio for new markets including ESS
- Larger emphasis on system engineering and modular kit development







Asia has scale

\$5.7B addressable market

ini 45% of global population

over 2B : mobile subscribers

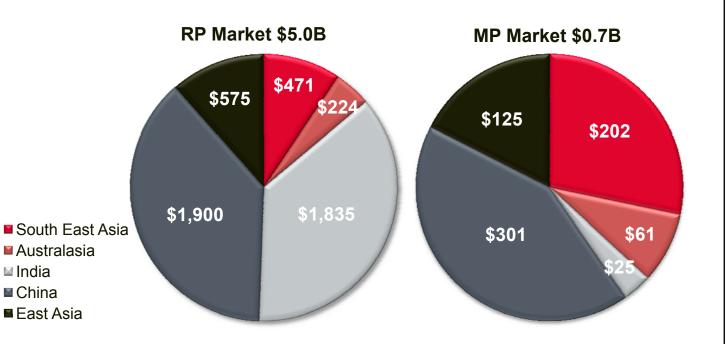
200k new electric trucks every year





Asia Industrial Battery Market

- RP dominated by India and China
- MP dominated by China



Management estimates







Mega Trends

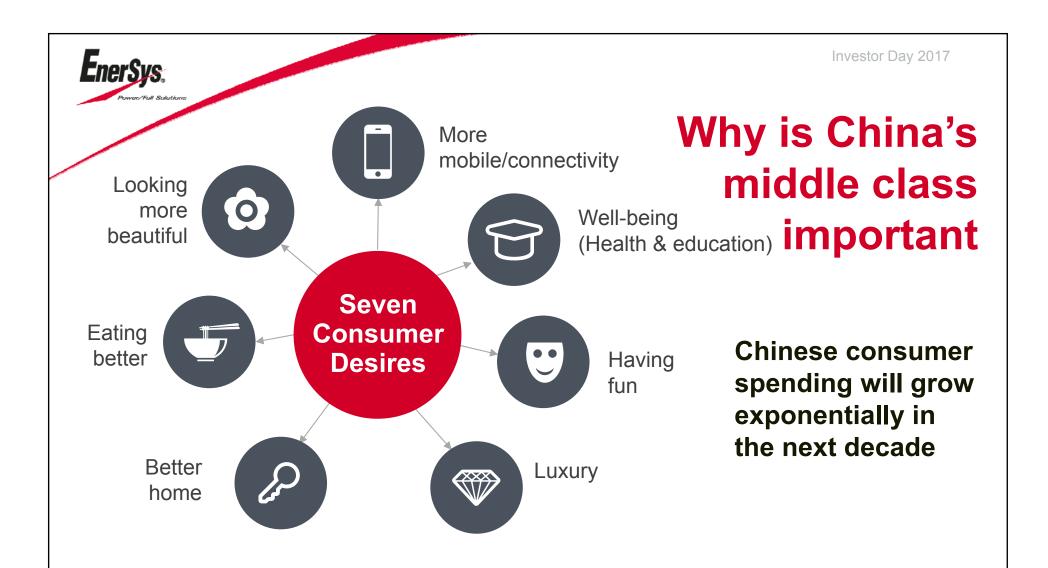
- 40M+ people enter the middle class annually
- Logistics Growth
- Environmental concerns drive higher electric %

China Motive Power



EnerSys Trends

- Enter Chinese domestic OEM Motive Batteries (70%) of market
- Best in Class Battery Quality
- Increase capacity utilization of EnerSys China factories





Consumerism is the driver



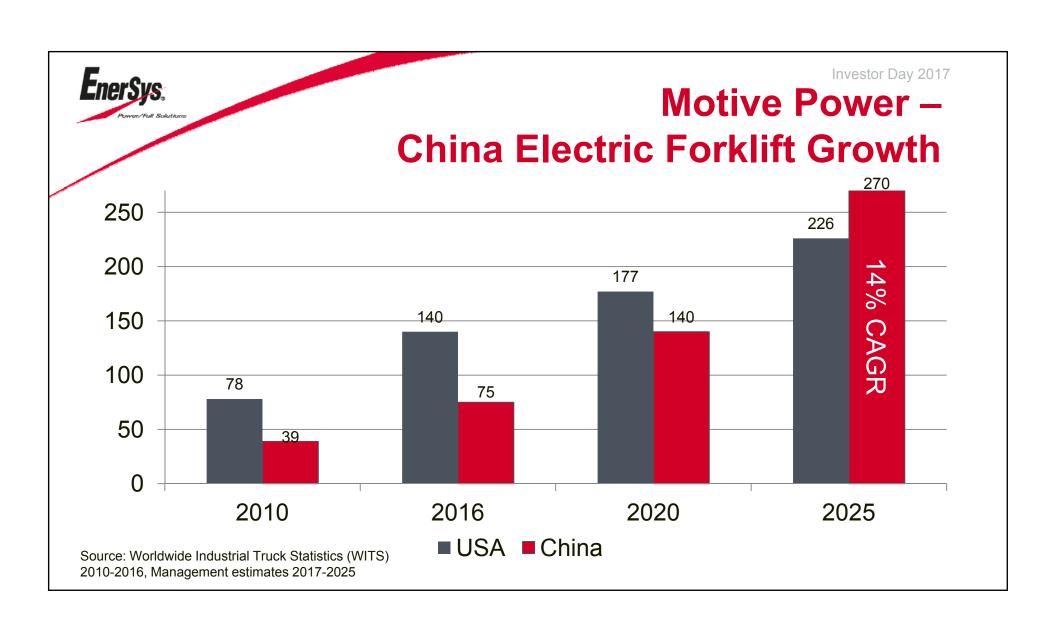
Shipping grew 10x in eight years...

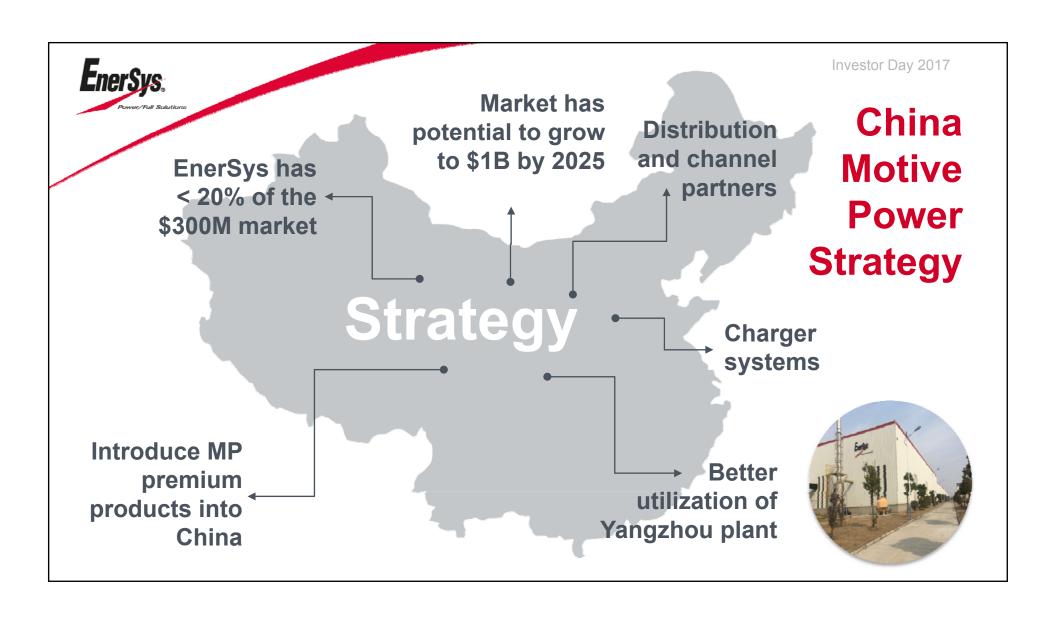
2014

10 Billion
Packages delivered













Mega Trends

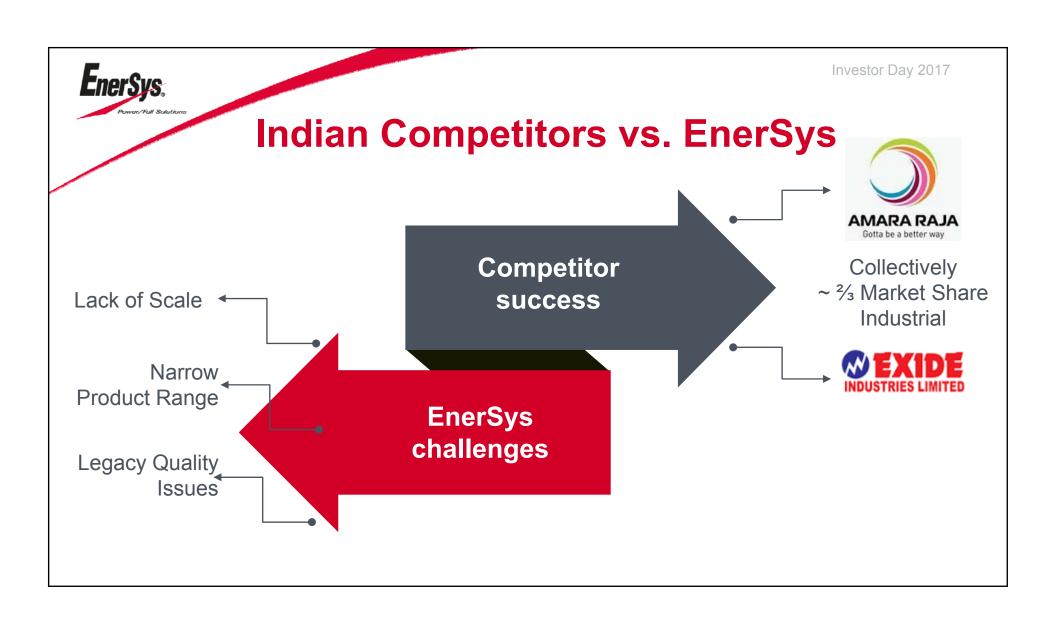
- Continued 3G and 4G expansion
- Smart Cities Digital India
- Data Center Growth CAGR 10%+

India Reserve Power



EnerSys Trends

- Acquisition or JV in India
- New UPS TPPL products
- Telecom Growth



EnerSys.,

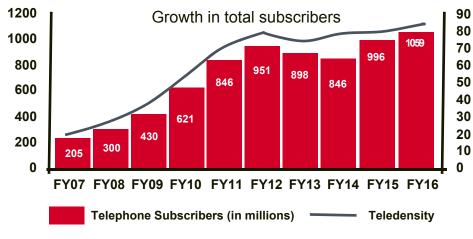
Second-largest telecommunication market.

Third highest number of internet users.

Subscriber CAGR of 18%, reaching 1.1 billion during FY07-16

India Telecom

Subscriber base expansion



Teledensity is the number of telephone connections for every hundred individuals.

Source: Telecom Regulatory Authority of India, TechSci Research

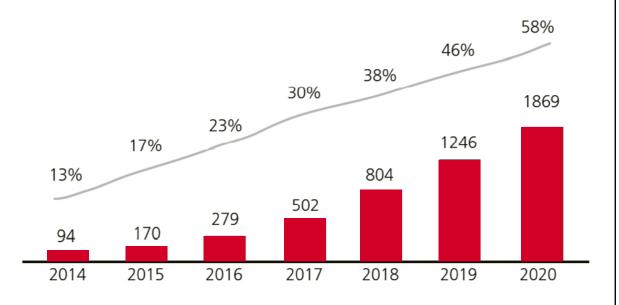




India Mobile Data Demand

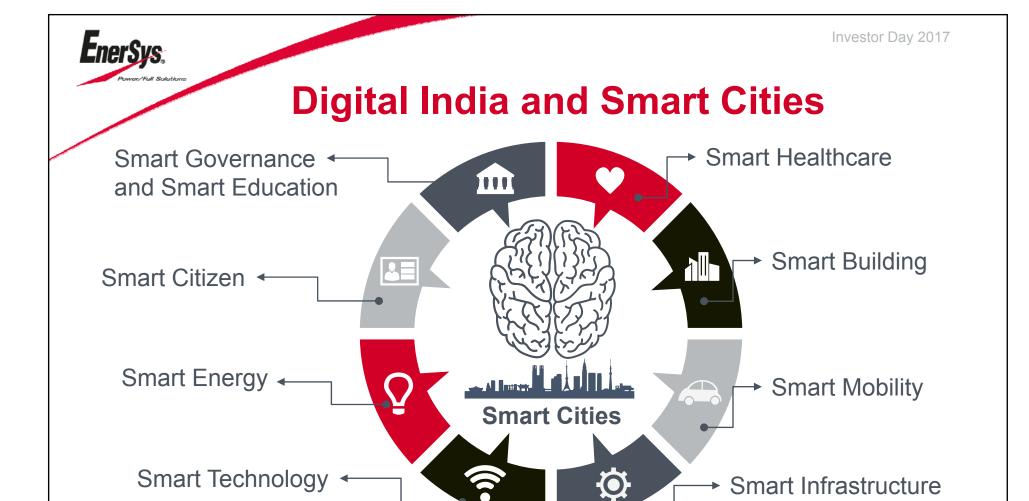
Projected
Smartphone
Penetration and
Mobile Data
Consumption
for India

Source: Deloitte Analysis



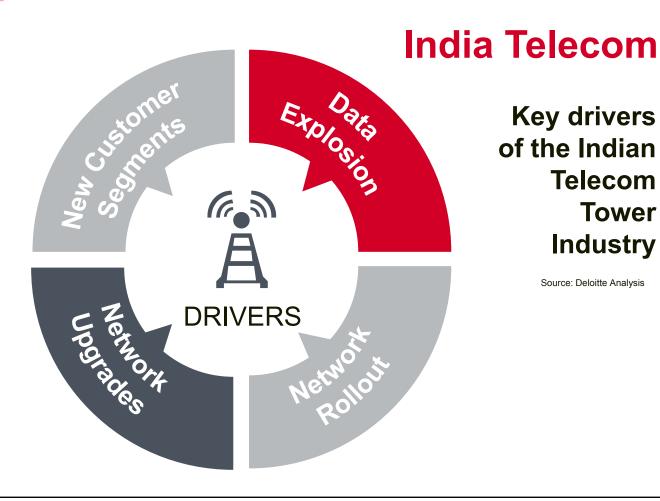
Mobile data consumption (Pb per month)

Smartphone Penetration (% of Population)



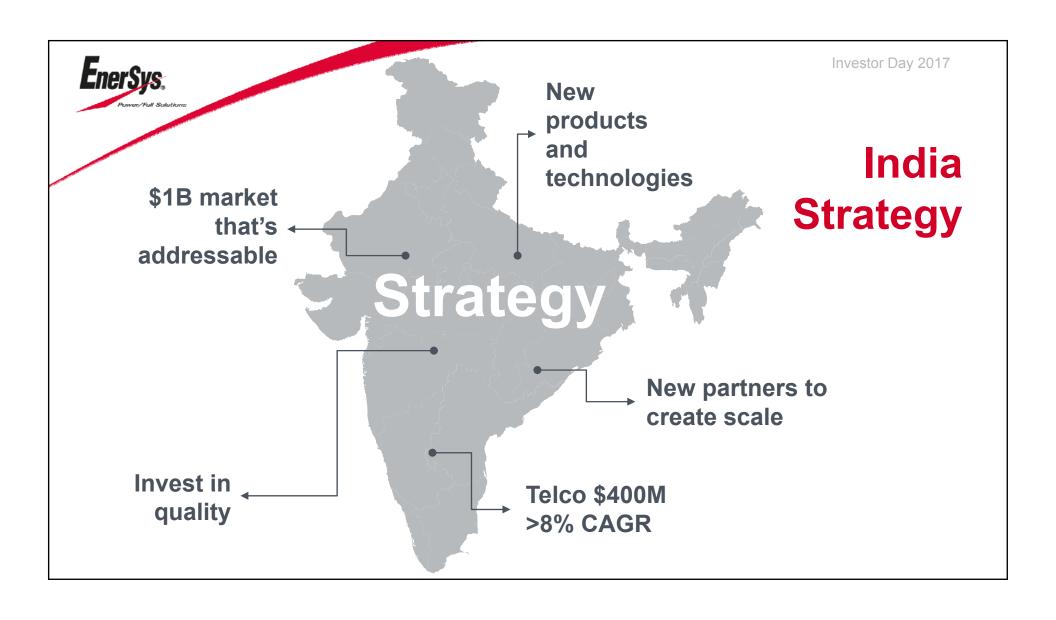


- **Grid quality**
- 70% of towers have power outages for up to 8 hours a day
- TCO product strategy



Key drivers of the Indian **Telecom Tower Industry**

Source: Deloitte Analysis

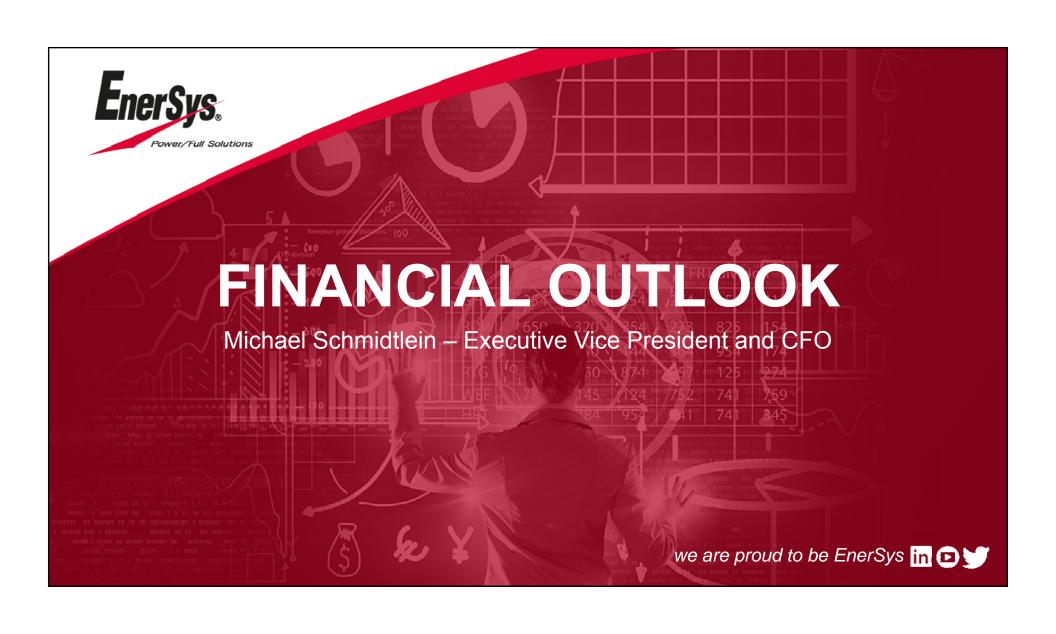




Key Takeaways

- EnerSys is well positioned to grow MP in China with new factory, new products and established brands and channels
- EnerSys is committed to India. Key focus is to create scale and expand product offerings
- EnerSys will be a major player in Asia







F'17 YTD Third Fiscal Quarter Sales By Region & LOB

(\$ Millions)



	F'17	F'16	Fav/(U \$	nfav) %	Volume	Price	M&A	Fx
Americas	\$968	\$946	\$22	2%	2%	-	1%	-1%
EMEA	\$564	\$583	(\$19)	-3%	-	-	-	-3%
Asia	\$208	\$176	\$32	18%	11%	1%	8%	-2%
Total Net Sales	\$1,740	\$1,705	\$35	2%	2%	-	2%	-2%
Motive Power	\$895	\$894	\$1	-	1%	1%	-	-2%
Reserve Power	\$845	\$811	\$34	4%	4%	-	3%	-3%
Total Net Sales	\$1,740	\$1,705	\$35	2%	2%	-	2%	-2%

Note - Rounding may cause minor differences. Presented on an as adjusted basis.



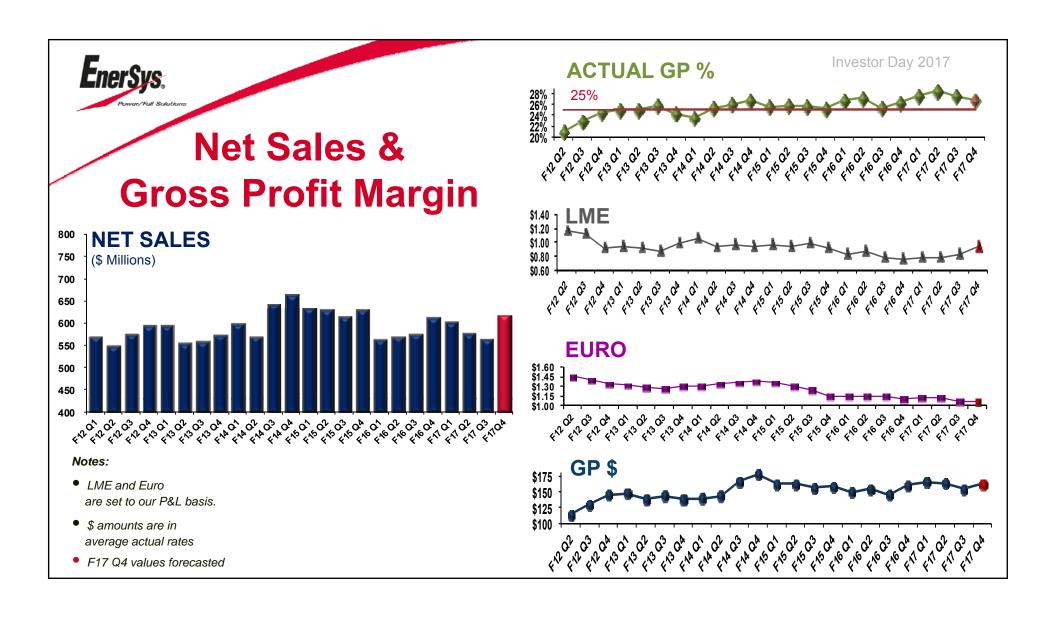
F'17 YTD Third Fiscal Quarter Net Earnings & EPS

(\$ Millions, Except Per Share Amounts)



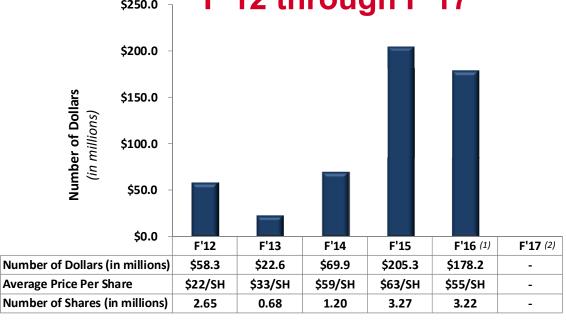
			Fav/	(Unfav)
	F'17	F'16	\$	%
Operating Earnings - As Adjusted	\$214.9	\$193.3	\$21.6	11%
As % Net Sales	12.4%	11.3%		1.0 Pts.
Book Tax Rate	24%	24%	_	-
Net Earnings - As Adjusted	\$152.5	\$132.9	\$19.6	15%
As % Net Sales	8.8%	7.8%		1.0 Pts.
EPS diluted - As Adjusted	\$3.47	\$2.90	\$0.57	20%
Avg. Diluted Shares Outstanding (Millions)	43.943	45.913	1.970	4%

Note - Rounding may cause minor differences. Presented on an as adjusted basis.





Treasury Stock Repurchase Program \$250.0 \cap F'12 through F'17



(1) Issued 1.9M shares from Treasury to pay for the premium on the Convertible Notes redemption

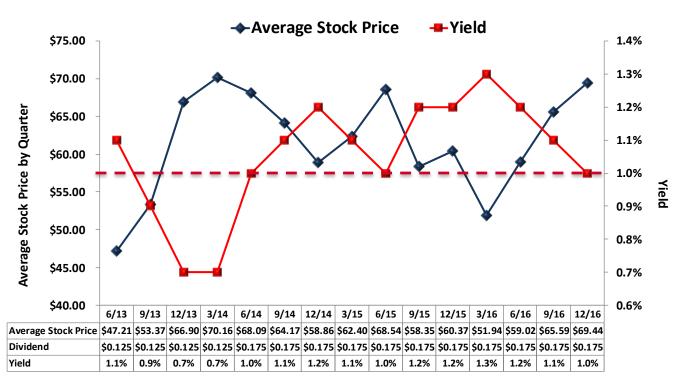
(2) No stock repurchases in F'17 YTD

Total Repurchased: 11.0 Million Shares

Average Price Per Share: \$48



Dividend Yield



- Initiated dividend June 2013
- Increased dividend June 2014
- Dividend yield is the annualized dividend as a percentage of average quarterly stock price





EnerSys.

Q4 Guidance Affirmed

\$1.21 EPS Midpoint





|--|

US to US 35% US to ROW 5% ROW to US 10% ROW to ROW 50% \$2.3 B 100%

CAPEX US 50% ⊼ ROW 50% US \$56 M 10% higher Normalized due to corporate US 40% expansion ROW 60% \$60 M

US 55% ROW 45%

> 100% = 15% of Sales as adjusted basis

OPERATING EXPENSES

US 1 M ROW 466 M

CASH \$467 M

(Overseas Profit ~ \$900 M)

US 100% ROW -

\$22.3 M

INTEREST EXPENSE



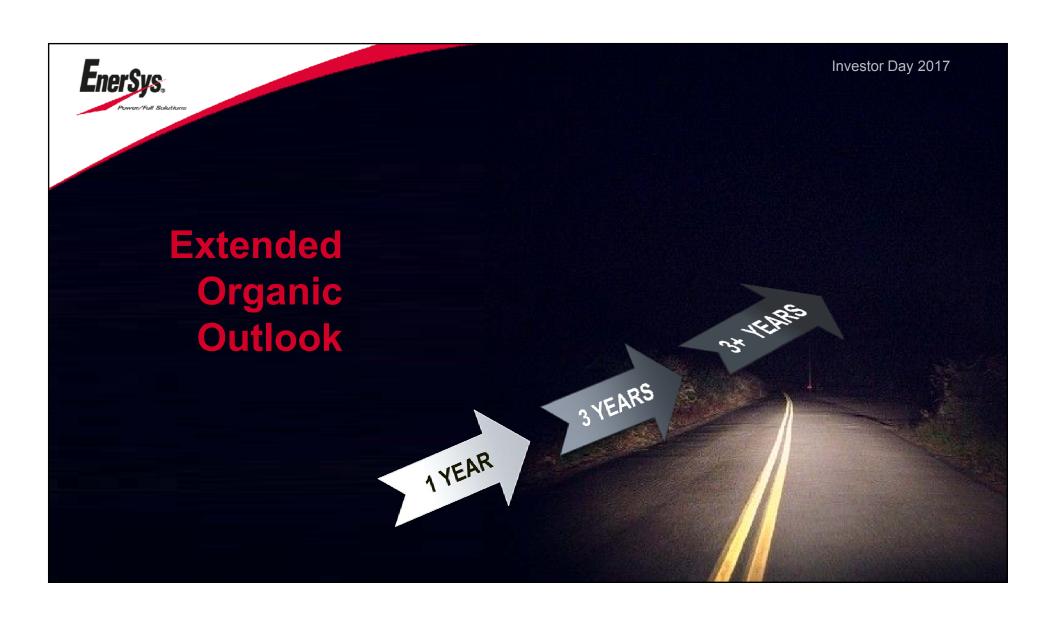


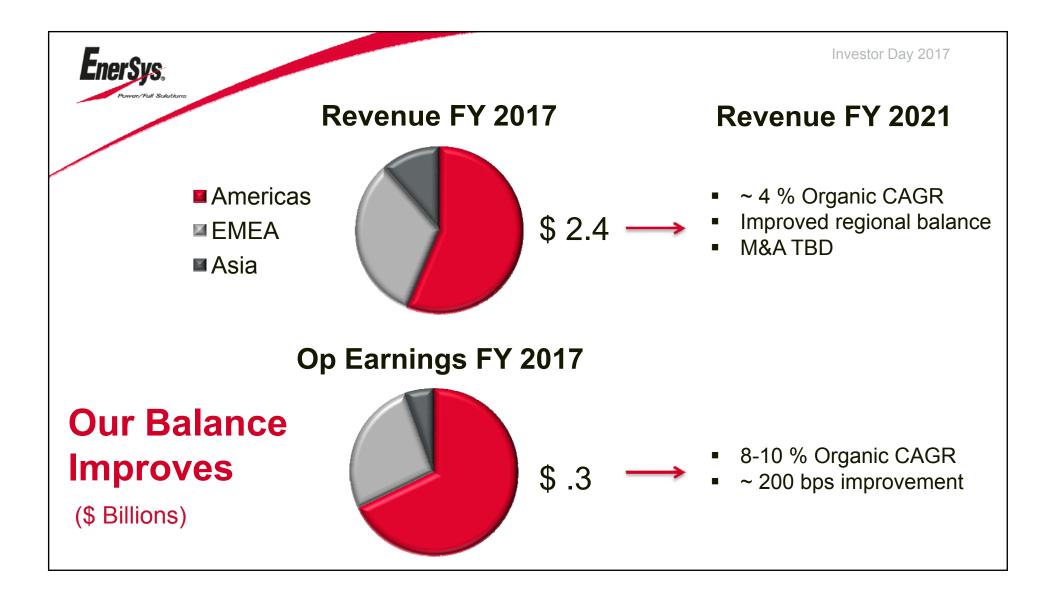
Fiscal 2018 Expectations

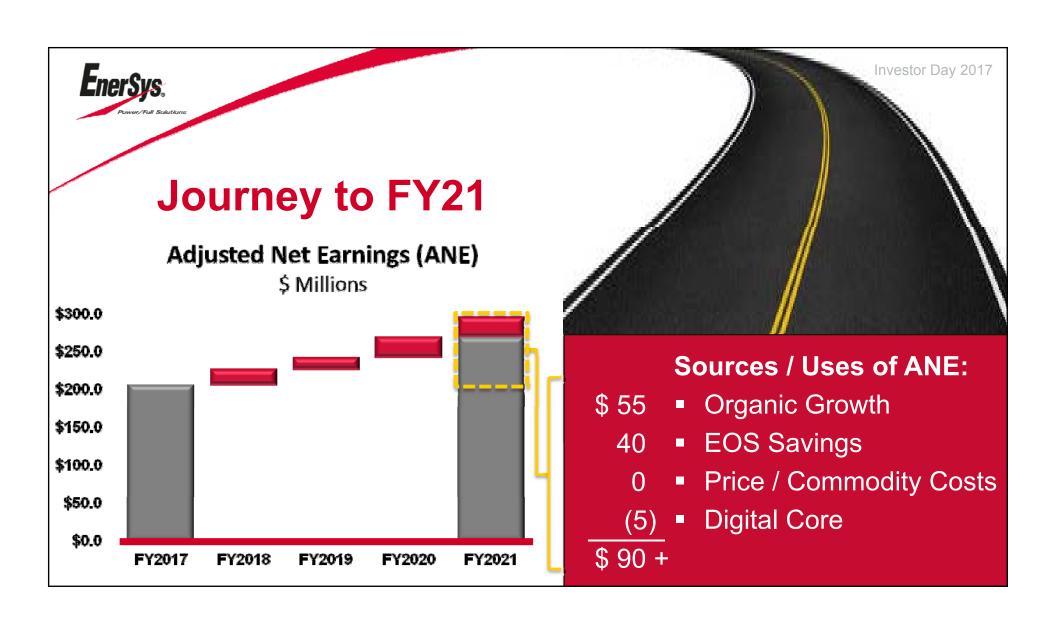
(without M&A activity)

- 7% to 10% Top Line Growth
 - > 3% to 5% Organic Growth
 - > 3% to 5% Price Recovery
 - > +/- FX
- 15% Sales in Operating Expenses
- 8% to 10% Growth in Adjusted Operating Earnings
- \$5.00+ As Adjusted EPS

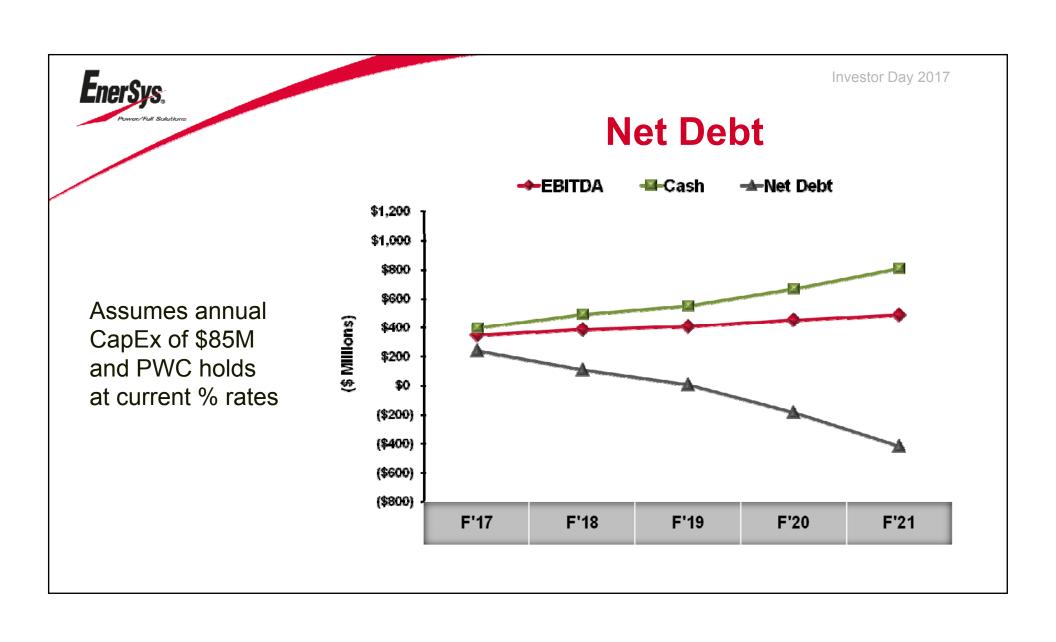


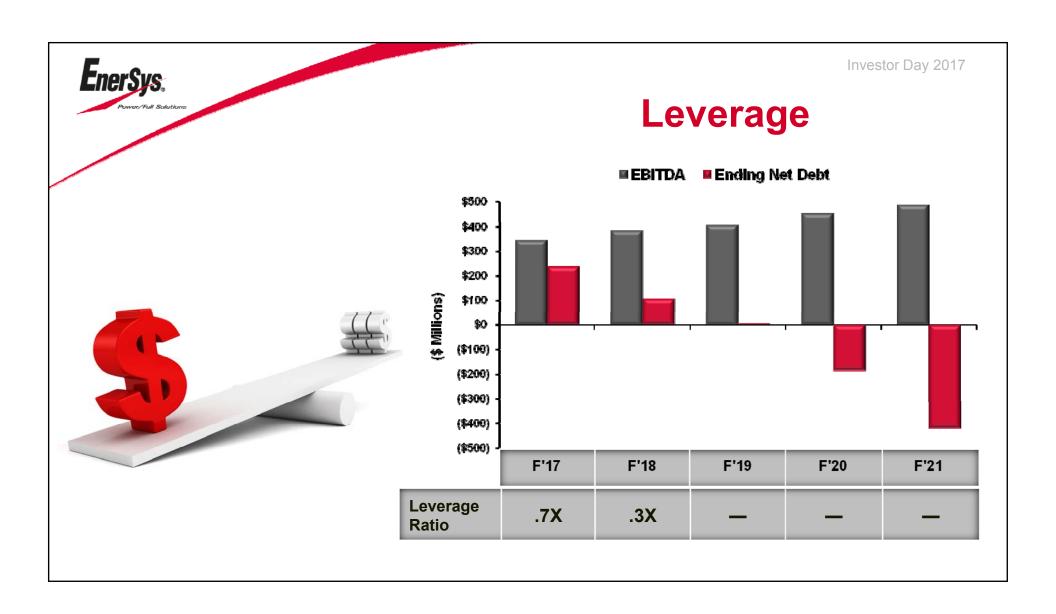










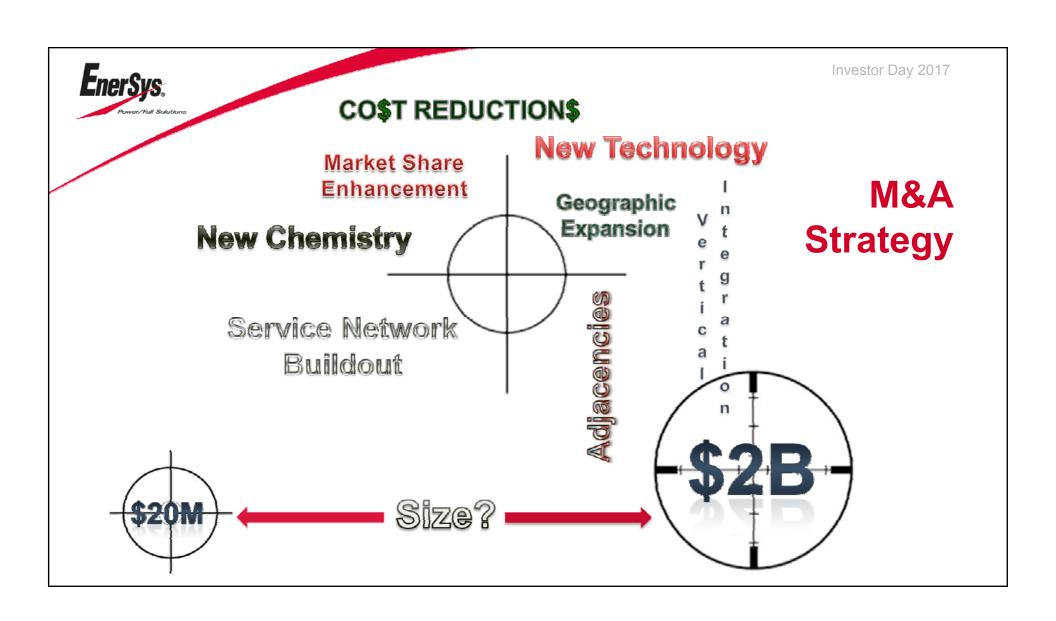




What **\$2** B In M&A Would **Look Like** If Done In...

2018 / 2019	20	18	20	19
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	DEBT	EBITDA	LEVERAGE
Acquisitions	2,000	300	
New Balance	2,000	700	2.9X
2020 / 2021			
	DEBT	EBITDA	LEVERAGE
Acquisitions	2,000	300	
New Balance	1,600	750	2.1X





Key Takeaways

- Organic growth at ~ 4 % aided by higher growth in Asia and new product development that includes lithium systems
- Price management of commodity volatility will continue
- Lean initiatives and premium product acceleration will improve OE margins 200+ bps





Key Takeaways

- Excess cash generated will be used for M&A first and then share repurchase
- Leverage will be kept reasonable
- Tax changes will be addressed timely and appropriately
- EnerSys will continue to be the Industrial market global leader





Thank You. Questions?



"Powering the Future Everywhere for Everyone."

At EnerSys, we pursue perfection to deliver Power to innovate and inspire.

Power delivered simply, safely and sustainably.

Power that creates superior value for our customer.

We are proud to be **EnerSys**.







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