#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

#### FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): November 17, 2015

### **ENPHASE ENERGY, INC.**

(Exact name of registrant as specified in its charter)

Delaware (State of incorporation) 001-35480 (Commission File No.) 20-4645388 (IRS Employer Identification No.)

1420 N. McDowell Blvd Petaluma, CA 94954 (Address of principal executive offices and zip code)

Registrant's telephone number, including area code: (707) 774-7000

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Dere-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

#### Item 7.01 Regulation FD Disclosure

Enphase Energy, Inc., or the Company, hosted an Analyst Day on Tuesday, November 17, 2015, in New York from 9:30am – 12:30pm ET. The presentation handout, together with a slide setting forth certain cautionary language intended to qualify the forward-looking statements included in the presentation handout, are furnished as Exhibit 99.1 to this Current Report and are incorporated herein by reference. The presentation handout is also available in the "Investor Relations" section of the Company's website, located at www.enphase.com.

The information contained in this Item 7.01 and in the accompanying Exhibit 99.1 to this Current Report shall be deemed to be "furnished" and shall not be deemed to be "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities of that Section or Sections 11 and 12(a)(2) of the Securities Act. The information contained in this Item 7.01 and in the accompanying Exhibit 99.1 to this Current Report shall not be incorporated by reference into any filing with the U.S. Securities and Exchange Commission under the Securities Act or the Exchange Act made by the Company, whether made before or after the date hereof, regardless of any general incorporation language in such filing.

#### Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Evhibit

Number		Description
99.1	Slide presentation entitled, "Enphase Energy Analyst Day November	r 2015"

#### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: November 17, 2015

#### ENPHASE ENERGY, INC.

By: /s/ Kris Sennesael

Kris Sennesael Vice President and Chief Financial Officer

enphase

# Enphase Energy Analyst Day

November 2015

### Safe harbor

#### **Use of forward-looking statements**

- This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including, but not limited to, statements related to Enphase Energy's financial performance, advantages of its technology, product cost reductions and market trend.
- These forward-looking statements are based on Enphase's current expectations and are inherently subject to risks and uncertainties. They should not be considered guarantees of future results, which could differ materially from the results set forth in, contemplated by, or underlying this presentation.
- Factors that could cause actual results to differ materially from the Company's expectations are described in the reports filed by the Company with the Securities and Exchange Commission pursuant to the Securities Exchange Act of 1934 and we encourage you to review our filing carefully, especially the sections entitled "Risk Factors" in our quarterly report on form 10-Q for the quarter ended September 30, 2015.
- Enphase Energy undertakes no duty or obligation to update any forward-looking statements contained in this presentation as a result of new information, future events or changes in its expectations.



# Agenda

Paul Nahi Martin Fornage Greg Steele Darien Spencer Stefan Zschiegner Raghu Belur Stefan Zschiegner Enphase Energy vision Technology for cost reduction Engineering for cost reduction Operations and automation for cost reduction Product cost reduction roadmap Home energy systems roadmap Enlighten demo

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## **Enphase** focus and priorities

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**Enphase** is executing on its strategy to address market-driven cost pressures in the near term, while positioning the company for long-term growth:

- [1] Significantly reduce the cost of a solar system through product cost reduction and simplification of the installation process
- [2] Create a total energy solution for homes and businesses through the development of new products, features and services



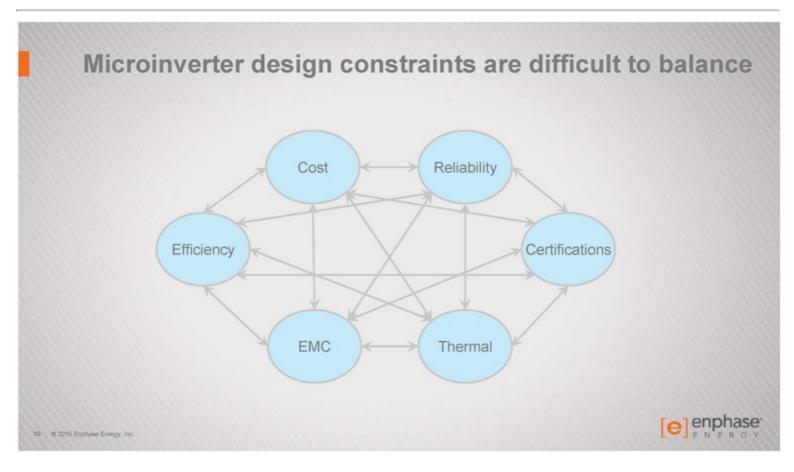




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Chief Technology Officer

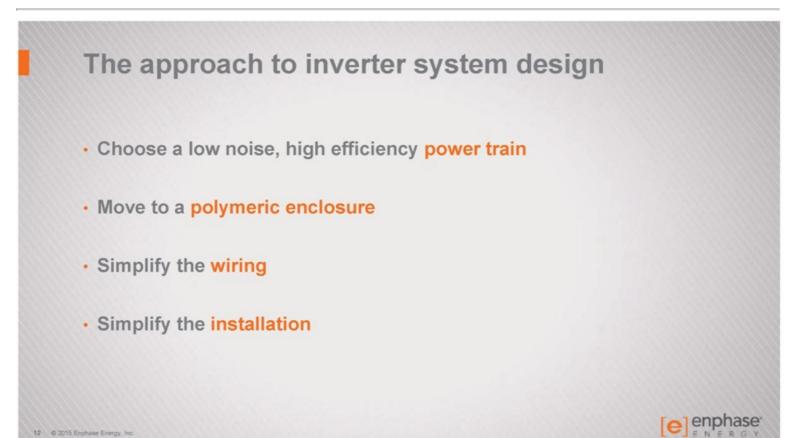




# General design philosophy

- The System approach is critical
- System behavior is defined by Software
- Distributed architecture wins
- Digital control wins





# **Enphase** power train and control

#### Advanced power train features

- · Fully resonant, soft-switched, bidirectional, single-stage converter
- World's first sub-cycle control capability
- Much improved EMC signature
- · WBG semiconductors can be used to further reduce cost and increase efficiency

#### Additional integration opportunities



### **Polymeric enclosure**

Low-noise power train allows for polymeric enclosure

- Reduced mechanical stress on components
- Lowest transformation cost
- · Higher freedom of design
- Improved thermal performance
- No ground wire

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 Embedded bulkhead connectors reduce number of cables needed





# AC module

#### Advances in size, weight and technology enable the AC module

- · Next level of integration with PV module
- Eliminates unnecessary components like extra wire and bypass diodes
- Possible removal of PV junction box

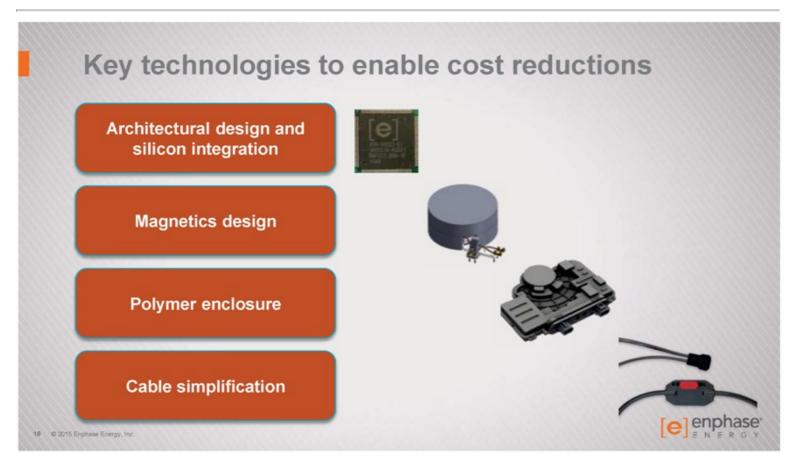


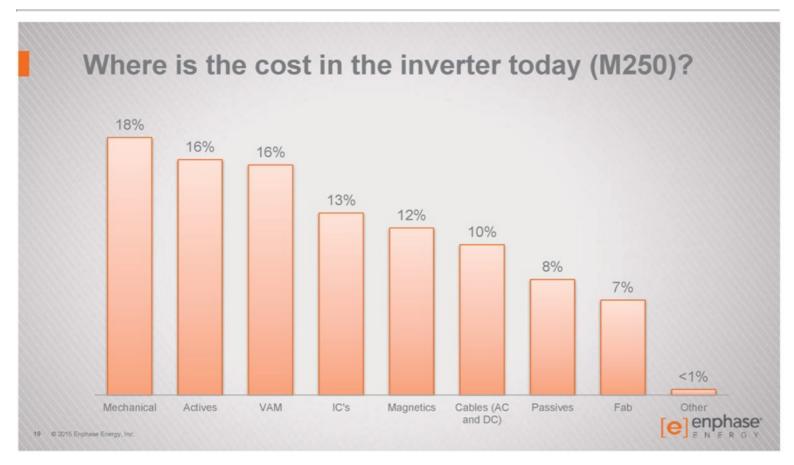
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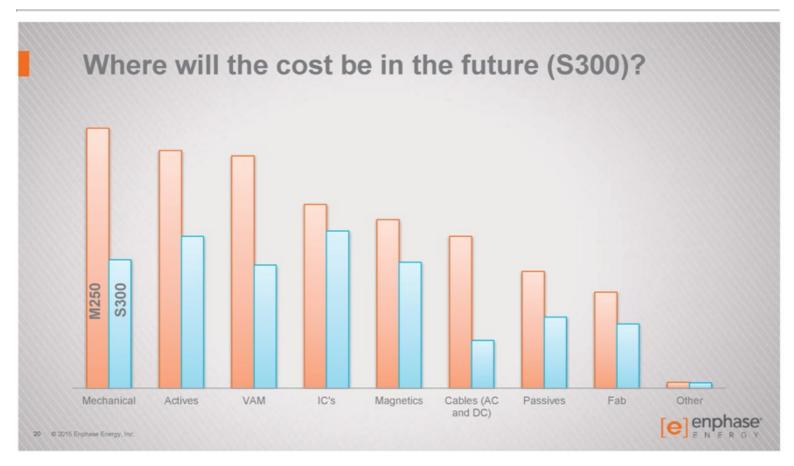
# Greg Steele

Senior VP of Engineering

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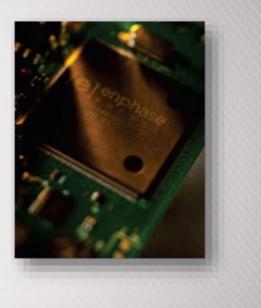
<b>Cost reduction</b>	- "By the numbe	rs"
	<b>2</b> ='interior <b>5</b>	
	M250	
	2015	
Part count	396	
ASIC count	1	
ASIC gates (millions)	1.8	
AC cable wires	4	
Weight (kg)	1.66	
AC cable weight (kg)	0.985	
Max AC power	250W	- 1000

;	≠ <b>-</b>			
	<b>M250</b> 2015	<b>S290</b> 2016	% change	
Part count	396	339	-14%	
ASIC count	1	1		
ASIC gates (millions)	1.8	2.8	+55%	
AC cable wires	4	2	-50%	
Weight (kg)	1.66	1.38	-17%	
AC cable weight (kg)	0.985	0.407	-59%	
Max AC power	250W	290W	+16%	r - 1 opph

	DIGIN-		-	
	2= 'inter	C BL	PI	
	M250	S290	S300	
	2015	2016	2017	% change
Part count	396	339	250	-37%
ASIC count	1	1	3	+200%
ASIC gates (millions)	1.8	2.8	5	+178%
AC cable wires	4	2	2	-50%
Neight (kg)	1.66	1.38	1.15	-31%
AC cable weight (kg)	0.985	0.407	0.407	-59%
Max AC power	250W	290W	300W	+20%

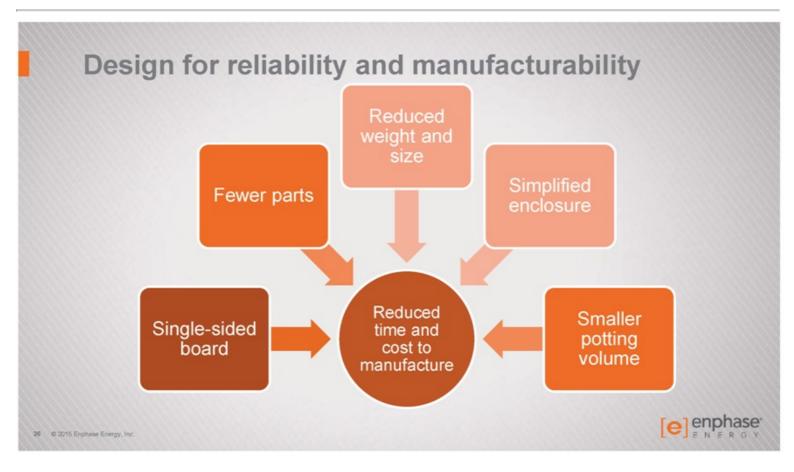
# **Enphase** semiconductor development

- 8th generation
- 2.8 million gates
- Designed in partnership with TSMC
  - 30-person design team in Silicon Valley
- TSMC 55nm LP CMOS process for SoC



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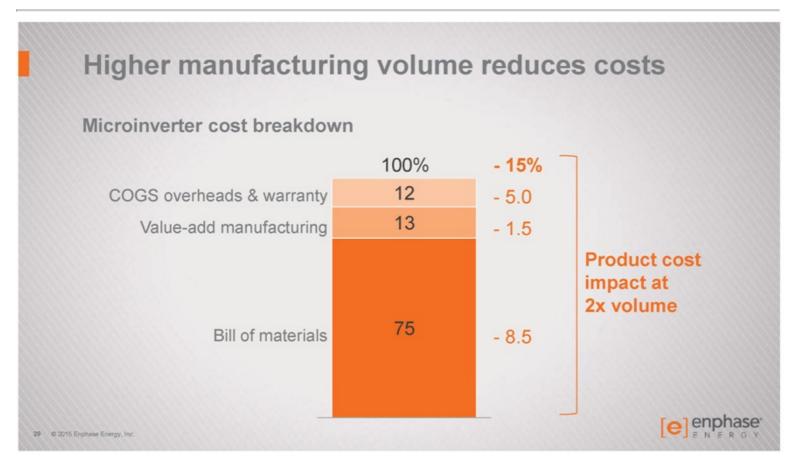


# **Darien Spencer**

VP of Manufacturing and Operations

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# Manufacturing cost drivers continue to improve

		2013	2015	2017	
Bill of materials	Sourcing localization	Asia/Europe	Asia/Europe	Asia/Europe/LA	
	Raw material and transformation	Manual	Semi-automated	Automated	
	Component count	425	396	250	
Value-add manufacturing	Labor/automation (units/quarter/operator)	1,000	2,500	5,000	
	Process touchpoints	180	96	68	
	Yield management (cum)	93%	99.5%	99.8%	
	SKU management (lines)	2 SKU-specific automated + 2 manual	3 universal automated	4 universal automated	
	Component lead time (average days)	65	52	45	
	Depreciation/asset efficiency	Baseline	+25%	+50%	
	COGS overheads	Baseline	+100%/unit	+200%/unit	
	Automation line throughput (number/day/line)	7,500	11,000	15,000	



# Quality and reliability throughout the process

Enphase continues investment in quality and reliability infrastructure with commissioning of New Zealand QA lab



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# Manufacturing automation creates efficiencies

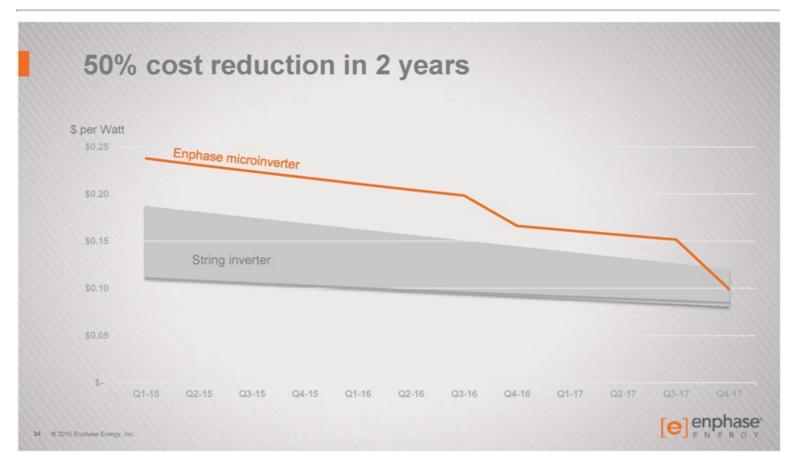


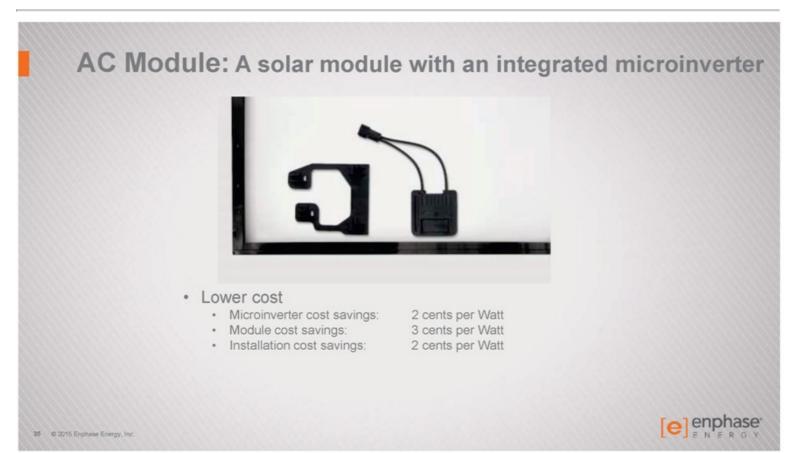
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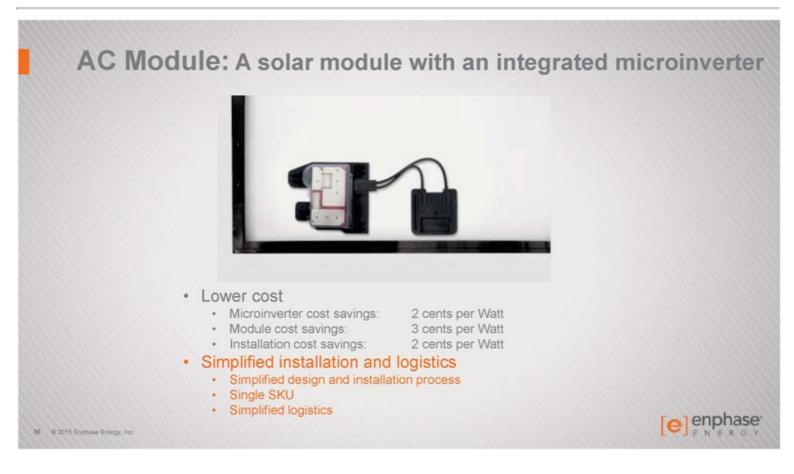
# Stefan Zschiegner

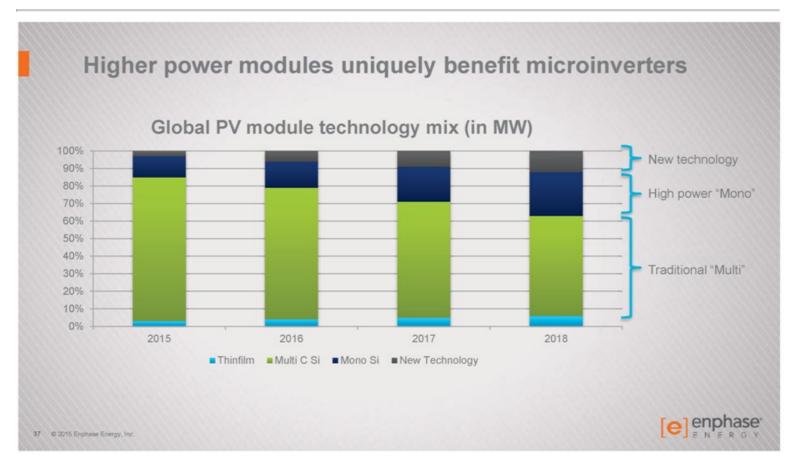
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VP of Product Management





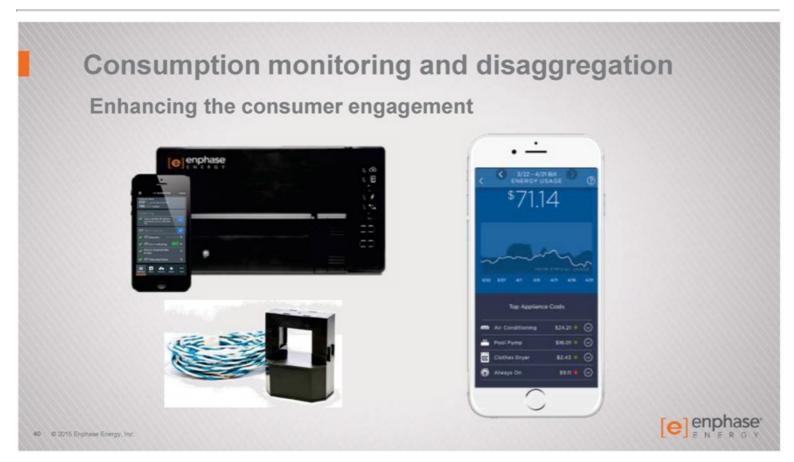




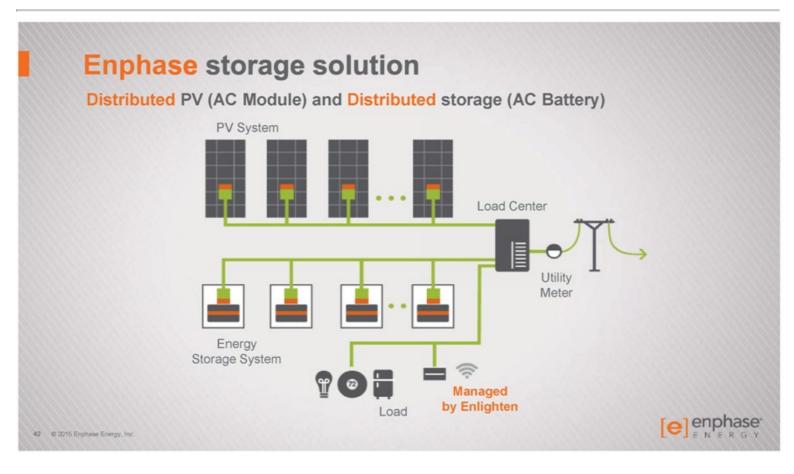
# Raghu Belur

VP of Products and Strategic Initiatives









### Enphase AC coupled versus DC coupled systems

#### Value

- Efficiency
- 2 cycles per day, >95% depth of discharge
- · Less expensive to install

#### Modular

- · Pay only for what you need
- Expandable

#### Reliability

· No single point of failure

#### Safety

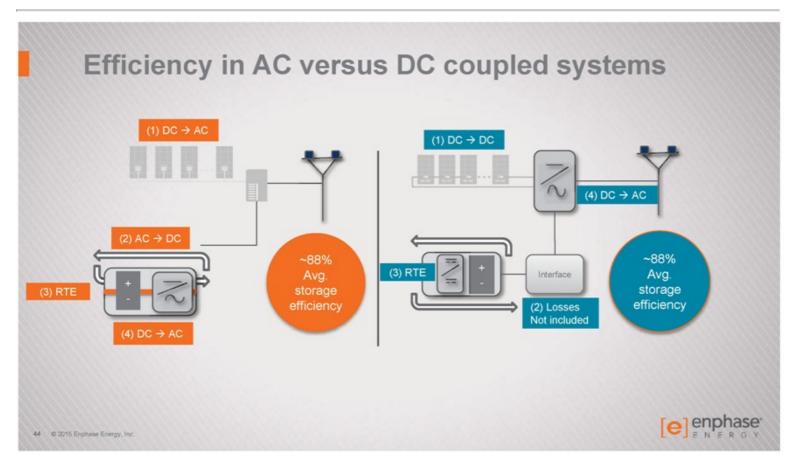
- No high voltage DC
- TUV safety certified LFP versus NCA and NMC chemistry

#### Retrofit

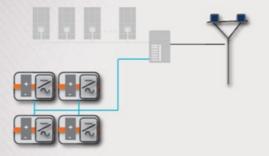
Easy to retrofit any solar system

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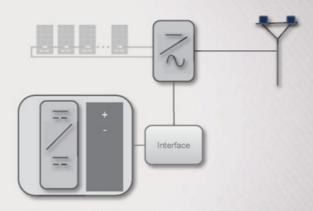




### The AC coupled advantage Enphase's distributed architecture is the clear choice for retrofits



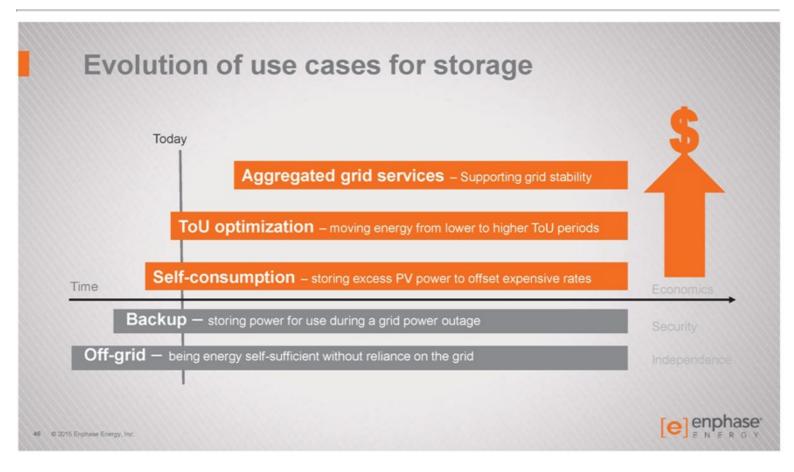
Enphase AC Battery No need to replace existing inverters



DC coupled battery with string & DC optimizers Must upsize inverter to accommodate battery

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## Stefan Zschiegner

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VP of Product Management

Enlighten demo





The Enphase Promise: We make solar simple and energy smart. [e] enphase