

Analyst Day

Profitable Growth December 12, 2019



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Use of Forward-Looking Statements

This presentation contains forward-looking statements made pursuant to the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995, including but not limited to statements concerning financial performance and guidance, including revenues, gross margin, operating results, expenses and costs; our business strategies, including our operations and anticipated trends and developments in markets in which we operate and in the markets in which we plan to expand; the anticipated market adoption of Enphase's energy management system; the capabilities and performance of our technology and products, including product scalability, the ability to operate without a grid, the ability to optimize and customize products, load disaggregation, monitoring, and management, and reduction in installation, logistics and supply chain times; the capacity and availability of our products; our performance in operations, including product guality, safety, reliability, cost management, and customer service are based upon current expectations that involve risks and uncertainties. Any statements that are not of historical fact, may be forward-looking statements. Words used such as "anticipates," "believes," "continues," "designed," "estimates," "expects," "goal," "intends," "likely," "may," "ongoing," "plans," "projects," "should," "will," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these words. All forward-looking statements are based on our current assumptions, expectations and beliefs, and involve substantial risks and uncertainties that may cause results, performance or achievement to materially differ from those expressed or implied by these forward-looking statements. Therefore, you should not place undue reliance on our forward-looking statements. A detailed discussion of risk factors that affect our business is included in the filings we make with the Securities and Exchange Commission (SEC) from time to time, including our most recent reports on Form 10-K and Form 10-Q, particularly under the heading "Risk Factors." Copies of these filings are available on the Enphase website at http://investor.enphase.com/sec.cfm, or on the SEC website at www.sec.gov. All forward-looking statements in this presentation are based on information currently available to us, and we assume no obligation to update these forward-looking statements in light of new information or future events.

Industry Information

Information regarding market and industry statistics in this presentation is based on information available to us that we believe is accurate. It is generally based on publications that are not produced for purposes of economic analysis.

Non-GAAP Financial Metrics

- The Company has presented certain non-GAAP financial measures in this presentation. Generally, a non-GAAP financial measure of a company's performance, financial position, or cash flows that either excludes or includes amounts that are not normally excluded or included in the most directly comparable measure calculated and presented in accordance with generally accepted accounting principles in the United States of America, or GAAP. Reconciliation of each non-GAAP financial measure to the most directly comparable GAAP financial measure can be found in the Appendix to this presentation. Non-GAAP financial measures presented by the Company include non-GAAP gross margin, operating expenses, income (loss) from operations, net loss and adjusted free cash flow.
- These non-GAAP financial measures do not reflect a comprehensive system of accounting, differ from GAAP measures with the same captions and may differ from non-GAAP financial measures with the same or similar captions that are used by other companies. In addition, these non-GAAP measures have limitations in that they do not reflect all of the amounts associated with the Company's results of operations as determined in accordance with GAAP. As such, these non-GAAP measures should be considered as a supplement to, and not as a substitute for, or superior to, financial measures calculated in accordance with GAAP. The Company uses these non-GAAP financial measures to analyze its operating performance and future prospects, develop internal budgets and financial goals, and to facilitate period-to-period comparisons. Enphase believes that these non-GAAP financial measures reflect an additional way of viewing aspects of its operations that, when viewed with its GAAP results, provide a more complete understanding of factors and trends affecting its business.
- As presented in the "Reconciliation of Non-GAAP Financial Measures" table in the Appendix to this presentation, each of the non-GAAP financial measures excludes one or more of the following items for purposes of calculating non-GAAP • financial measures to facilitate an evaluation of the Company's current operating performance and a comparison to its past operating performance:
 - Stock-based compensation expense. The Company excludes stock-based compensation expense from its non-GAAP measures primarily because they are non-cash in nature. Moreover, the impact of this expense is significantly affected by the Company's stock price at the time of an award over which management has limited to no control.
 - Restructuring charges. The Company excludes restructuring charges due to the nature of the expenses being unplanned and arising outside the ordinary course of continuing operations. These costs primarily consist of fees paid for restructuring-related management consulting services, cash-based severance costs related to workforce reduction actions, asset write-downs of property and equipment and lease loss reserves, and other contract termination costs resulting from restructuring initiatives.
 - Reserve for non-recurring legal matter. This item represents a charge taken for the potential settlement cost related to a dispute with a vendor. This item is excluded as it relates to a specific matter and is not reflective of the Company's ongoing financial performance.
 - Acquisition related expenses and amortization. This item represents expenses incurred related to the Company's acquisition of SunPower's microinverter business, which are non-recurring in nature, and amortization of acquired intangible assets, which is a non-cash expense. Acquisition related expenses and amortization of acquired intangible assets are not reflective of the Company's ongoing financial performance.
 - Non-recurring debt prepayment fees and non-cash interest. This item consists primarily of amortization of debt issuance costs and non-recurring debt settlement costs, because these expenses does not represent a cash outflow for the Company except in the period the financing was secured or when the financing was settled, and such amortization expense or settlement of debt costs is not reflective of the Company's ongoing financial performance.
 - Adjusted free cash flow. This item represents cash flows from operating activities excluding payments for the acquisition reported in operating activities less purchases of property and equipment. The Company believes the adjusted free cash flow is the best measure of how much cash the business generates after accounting for capital expenditures.

This presentation is being made exclusively to gualified institutional buyers ("QIBs") as defined in Rule 144A") under the U.S. Securities Act of 1933, as amended (the "Securities Act"). The securities described herein have not been and will not be registered under the Securities Act and may not be offered or sold in the United States except to QIBs in reliance on Rule 144A or pursuant to another exemption from, or transaction not subject to, the registration requirements of the Securities Act. This document does not constitute an offer to sell, or a solicitation of an offer to purchase, any securities in any jurisdiction where such offer or sale is not permitted. Any purchaser of such securities will be deemed to have made certain representations and acknowledgments, including, without limitation, that the purchaser is a "gualified institutional buyer" as defined in Rule 144A under the Securities Act.



ENPHASE

Agenda

Badri Kothandaraman

Chief Executive Officer

Raghu Belur

Chief Product Officer

Arthur Souritzidis | Marc Jones

CEO - Momentum Solar

CEO - Sunpro Solar

Eric Branderiz

Chief Financial Officer

Q & A

Product Demos

Fremont HQ

Badri Kothandaraman

Chief Executive Officer





2019 Financial Performance

\$619M

Revenue

YoY

\$122M²

Operating Income

¹Assumes midpoint of Q4'19 guidance ²All numbers are Non-GAAP. Refer to appendix for GAAP reconcilition





A Look Back At 2019 We did a few things well and need to make other things better



Exceeded financial target of 30-20-10



new generation IQ[™] products



Further improved quality and customer service



Forecasting 500Ku Microinverters from Flex Mexico in Q4'19¹



supply chain issues

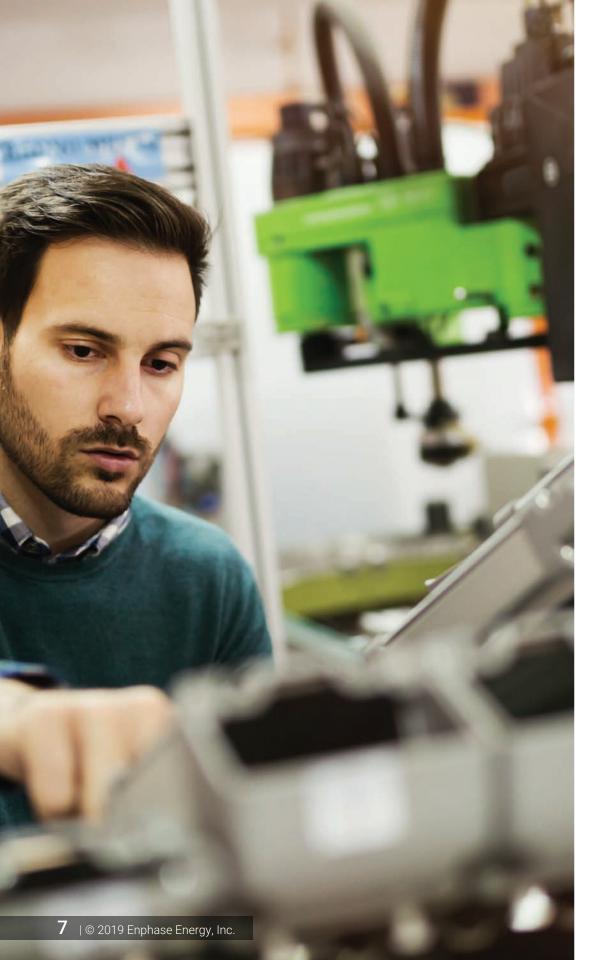


Strong growth in North America



Growth in International





Our Core Differentiation

Semiconductor



Predictive Control

Software



Software-Defined Architecture

Ensemble[™]

Energy Management Technology ÷ SOLAR GRID GENERATOR (+ -LOADS STORAGE

Home Energy Management





Operational Excellence

Customer Experience



Laser Focus on Quality and Customer Service

¹5X refers to actual results of IQ 7[™] Microinverters as of Q3'19, NPS refers to Net Promoter Score as of Q3'19



Customer Service







Cost

Product Innovation

ASIC, Transformers, FETs, Connectors

Supply Chain Optimization

Tariff, Expedites, Procurement, CM





Scalable Business Model

CAPEX Lite No Big **Factories 47**% NA

Capacity² of 3.5M Microinverters³ and 120MWh Storage Per Quarter in Q4'20

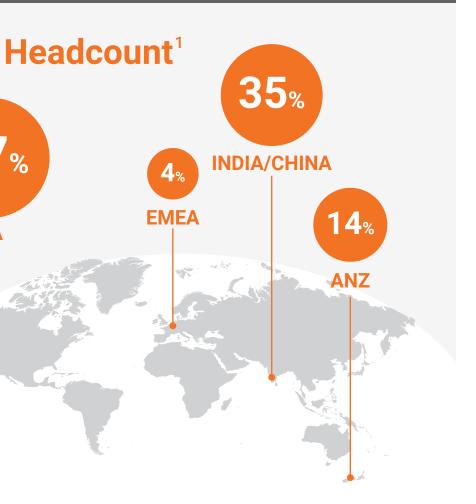
¹ Percentage of worldwide headcount as of Q3'19

² Estimated CAPEX spending \$25M for 2020 doubles capacity

³ Ramping Flex-Mexico capacity from 500K to 1M Microinverters per guarter from Q4'19 to Q4'20



OPEX Efficient





EnsembleTM



Great technology and intellectual property

Great products enabling new vectors of profitable growth



Laying the financial foundation for the next decade

ENPHASE.



Residential Solar



\$2.5B 2019 SAM¹

Introduce Ensemble[™], Enter New Regions, Focus on Tier 3/4 Intallers

¹Source: GTM/Wood Mackenzie Research (US PV Market Forecast) 2019, IHS Research (IHS EMEA Report 2019), SunWiz Research 2019, ENPH Estimates 2022 SAM of 16GW: NA/LATAM 4.4GW, EMEA 4GW, Japan 3GW, APAC 4.6GW

\$4B 2022 SAM¹





Europe Growth Plan

Target To Grow Revenue 2X By 2020



Great Product-Market Fit, Time To Execute

Double

Sales Headcount in 6 Months

Transfer Top Talent to Europe

Enter 8 Countries in 2020

Focus

Small Systems Social Housing Roofing

Grow Small and Medium **Installer Base**

Market To Homeowners and Increase Awareness

New Vectors of Profitable Growth Increasing SAM from \$3.3B in 2019 to \$12.5B in 2022



Residential Solar



Residential Storage





Small Commercial Solar

Offgrid Solar & Storage





Residential Storage



One-stop-shop, Reliable, Scalable, Simple, Safe

Source: GTM/Wood Mackenzie Research (Global Energy Storage Outlook 2019), IHS Research (IHS EMEA Report 2019), ENPH Estimates 2022 SAM of 3.6GWh: NA/LATAM 1.6GWh, EMEA 1GWh, APAC 900MWh 2 ENPH assumption: Retrofit opportunity of ~ 1.5M Enphase homes over 10 years

New Installs \$2B **2022 SAM**¹

Enphase Installed Base 1 B 2022 SAM²





Small Commercial Solar



Reliable, Rapid Shutdown Compliant, World Class Cost

Source:¹GTM/Wood Mackenzie Research (US State DG Market Prospector) 2019, IHS Research (IHS EMEA Report 2019), ENPH Estimates 2022 SAM of 11GW: NA/LATAM 4.2GW, EMEA 3GW, APAC 3.8GW



\$1.5B **2022 SAM**¹



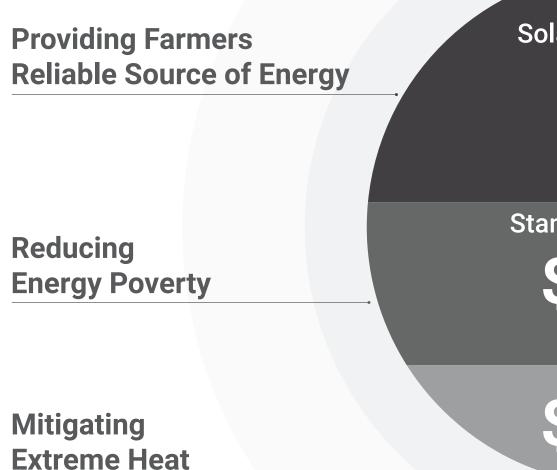






Offgrid Solar and Storage

Focus on Indian Market



Source: MNRE, Govt. of India; CEEW India; India Census Data 2011; Symphony Annual Report 2019; ENPH Estimates ¹Installed base of ~30M pumps in 2022. ENPH assumption: Convert 10% of installed base to solar per year for 0.5 - 3HP pumps ²Total number of homes per 2011 census data is ~123M. ENPH assumption: Convert 3% of installed base to solar and storage every year ³Installed base of ~20M air coolers in 2022. ENPH assumption: Convert 10% of installed base to solar every year



Solar Water Pump



Standalone System \$1.5**B** 2022 SAM²

Air Cooler 2022 SAN





Recap Increasing SAM from \$3.3B in 2019 to \$12.5B in 2022

Residential Solar

Π

\$4B¹

Storage

Residential

+ -

\$3B¹

¹All the numbers refer to 2022 SAM





Small Commercial Solar

Offgrid Solar & Storage



Conclusion











Three Pillars of Differentiation: Semiconductor, Software and Ensemble[™]

Relentless Focus on Customer **Experience** and **GM Management** with a Scalable **Business Model**

Ensemble[™] Enables **New Vectors** for Profitable Growth



SAM Expanding from \$3.3B in 2019 to \$12.5B in 2022



Raghu Belur Chief Product Officer





The Power of Semiconductors, Software and Ensemble[™]

High Quality

Higher Efficiency, Fewer Components IoT System, Over-the-air Upgrades

Flexibility

Modular Design AC Market Place

Supply Chain Efficiency

One Hardware Platform Configurable SKUs

Great Customer Experience

One-stop-shop

Safety

No High Voltage DC Lithium Iron Phosphate Chemistry

Exceptional Value

Grid Independence AC Module

Low Cost

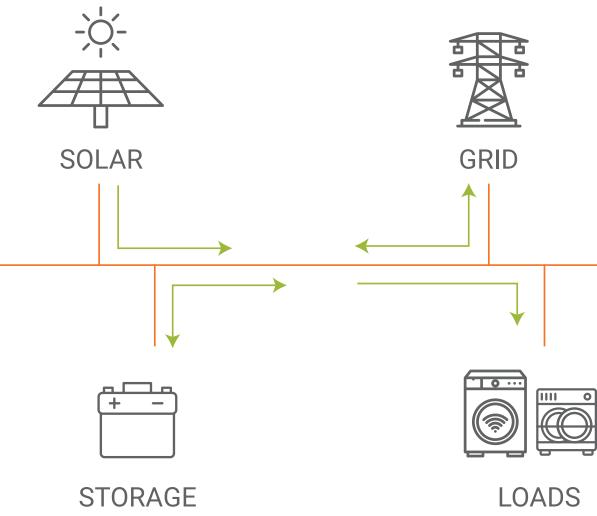
Resonant Architecture, Power Scaling Semiconductor Integration





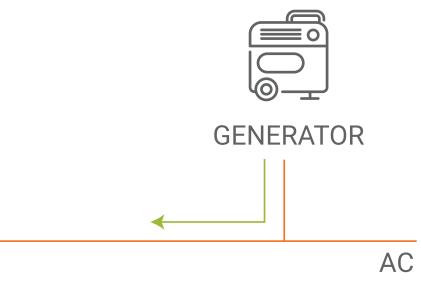
EnsembleTM **Energy Management Technology**

Automatically manages energy resources in your home such as solar, storage, grid, loads and generator

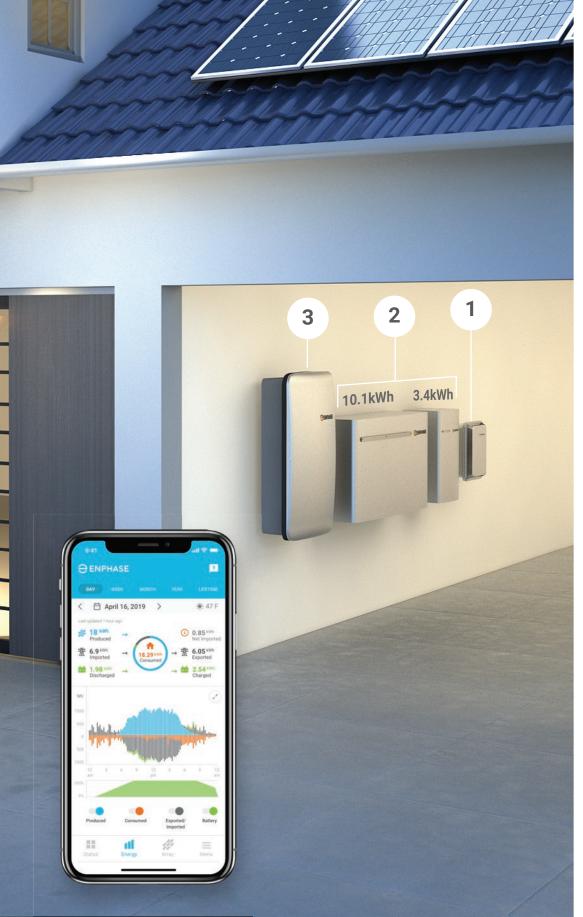


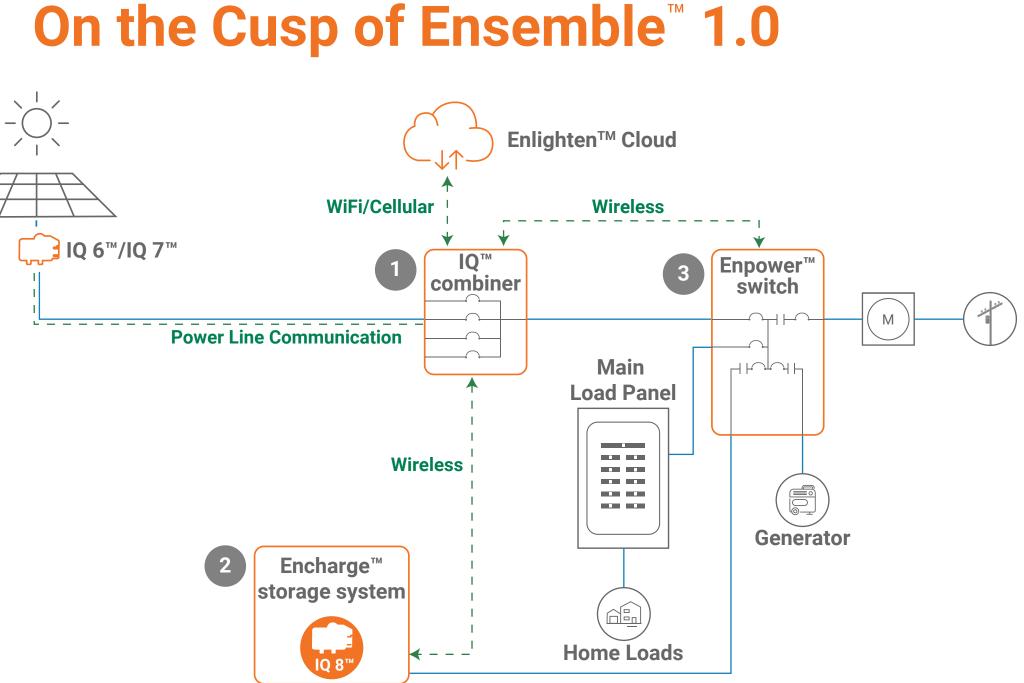
(Backup, Time of Use)











Encharge[™] Storage System Makes The System Always-On[™]

ENPHASE

Э

IQ 8[™] Residential Microinverter



World's First Grid Forming Microinverter System





Encharge[™] Storage System

Available In Two Configurations



One-stop-shop, Reliable, Scalable, Simple, Safe



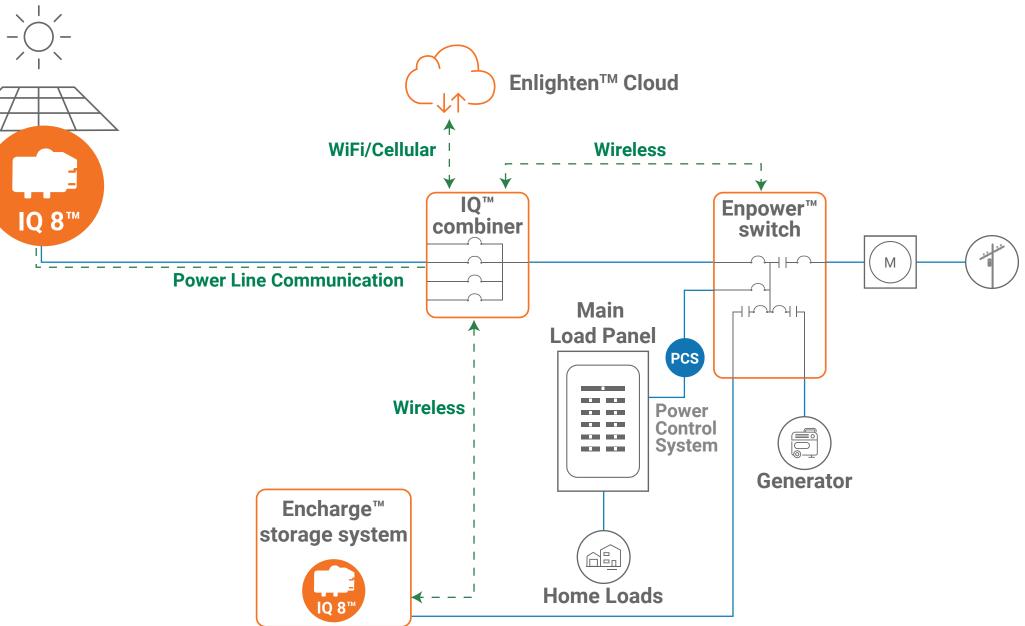








Gearing up for Ensemble[™] 2.0



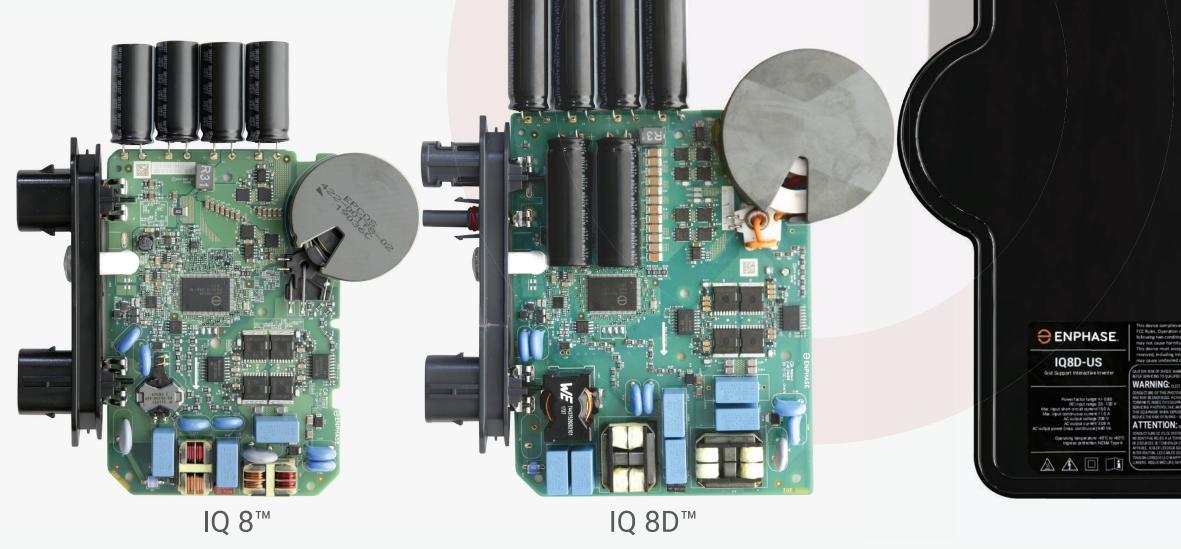
Addition of IQ 8[™] Grid-Independent Solar Significantly Improves Performance





IQ 8D[™] Commercial Microinverter

One 640W_{AC} Microinverter Supports Two 400W_{DC} Panels



¹ Power Density in W/cm³ compared to IQ 8[™]





500 dppm Reliability Target

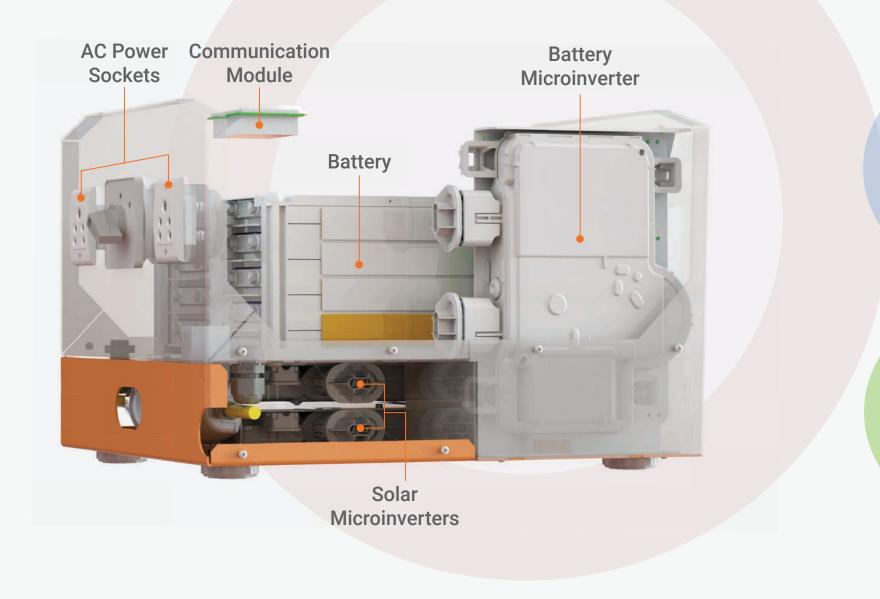
97.5%

Efficiency

50% Greater Power **Density**¹



Offgrid Solar and Storage Ensemble-In-A-Box[™]











Smart Phone Connectivity





¹ Lithium Iron Phosphate

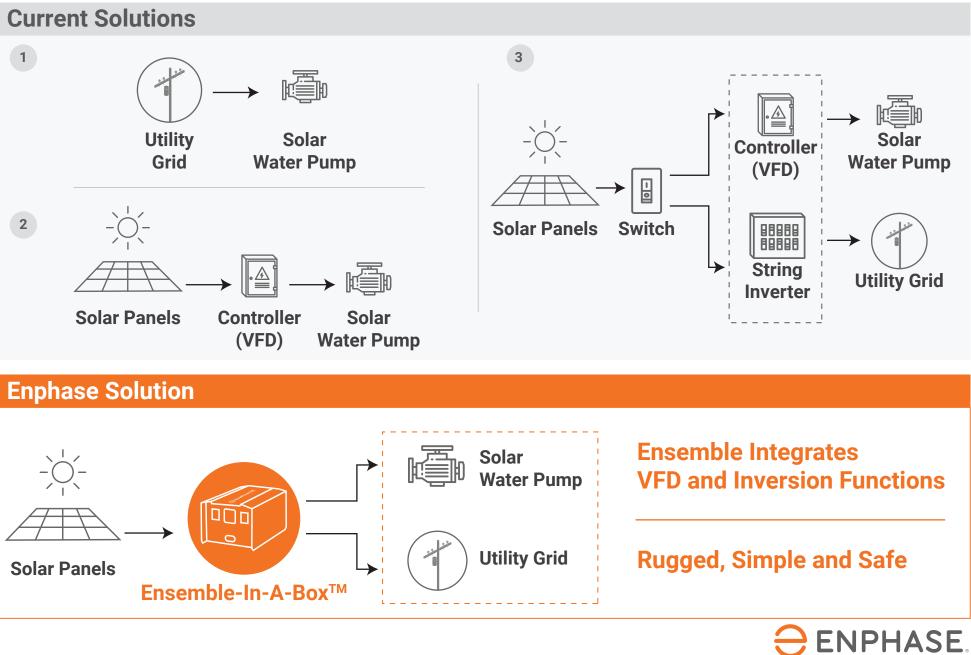


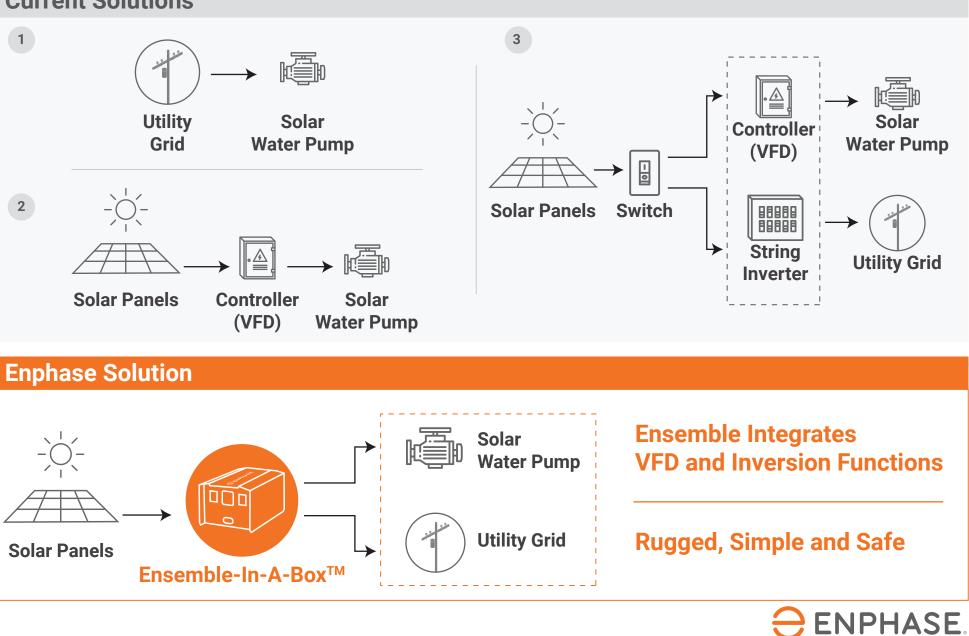


Solar Water Pump

Problem

Farmers in India have unreliable and intermittent grid power Current solutions with Variable Frequency Drive (VFD) and Inverters are inefficient



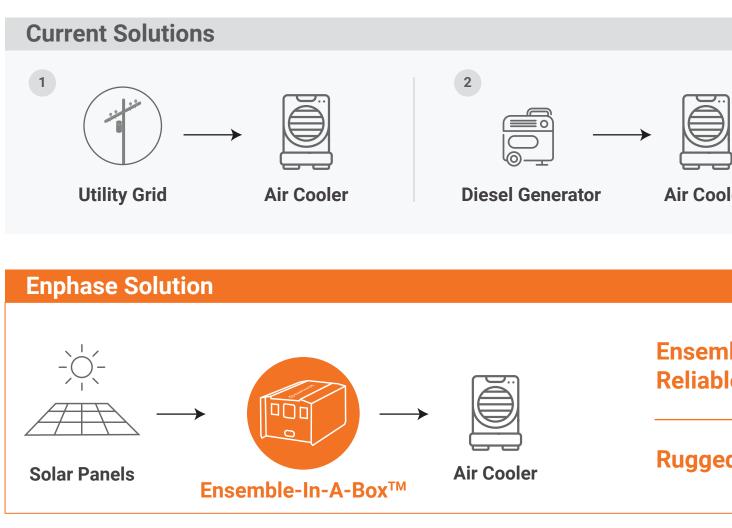




Air Cooler

Problem

No viable solution for extreme heat in certain regions of India Both grid and diesel generators are unreliable



Air Cooler

Ensemble Helps Provide a Reliable Source of Energy

Rugged, Simple and Safe

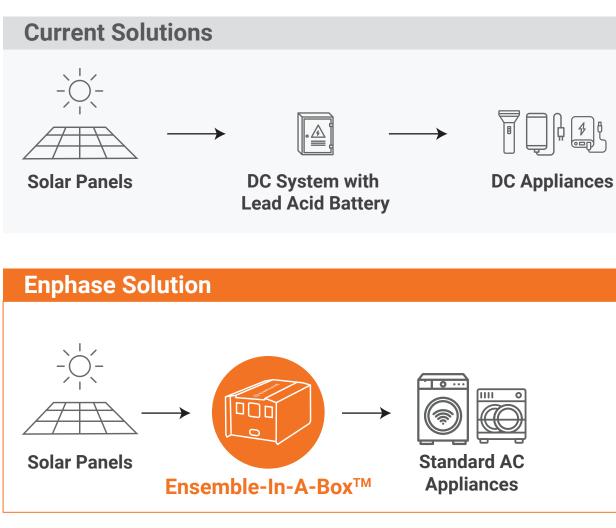




Standalone System

Problem

Over 300 million people in Asia, mainly in India, are living in energy poverty Current solutions with DC systems are inefficient



¹ Bloomberg New Energy Finance Report, 2018

Ensemble Helps Provide a Viable Source of Energy

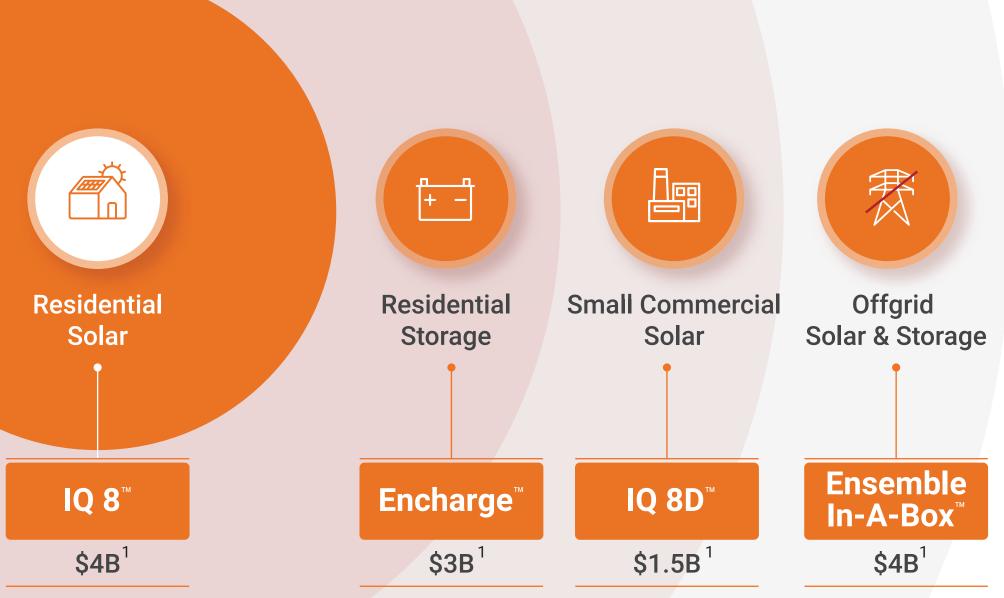
Rugged, Simple and Safe





Recap

Increasing SAM from \$3.3B in 2019 to \$12.5B in 2022



¹All the numbers refer to 2022 SAM

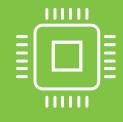


Ensemble[™]

It's a game changer...

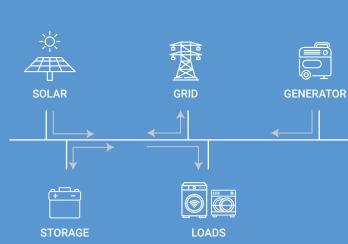


Conclusion



Semiconductors Bring Greater Efficiencies in Integration

Software Defined Architecture **Creates Flexible** and Future Proof Designs



Ensemble[™] **Enables New** Categories of Products

One-stop-shop for Home Energy Management



Introducing Two of Our Top Customers





Arthur Souritzidis

Founder and Chief Executive Officer







Marc Jones

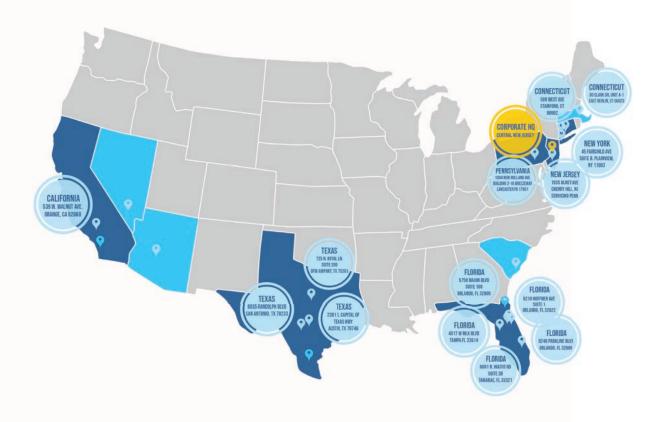
Founder and Chief Executive Officer

Introducing **Momentum Solar**

ENPHASE



- Founded in 2009
- Enabling customers to take control over rising energy costs by generating cleaner, price-protected power
- Industry leading growth; recognized by Deloitte and Inc.500 as fastest growing residential solar company in the nation
- Over 2,000 employees with operations in New Jersey, New York, California, Florida, Texas, Pennsylvania and Connecticut
- Focus on customer experience, forward thinking in terms of technology and very successful in their markets



Current # of States7Current # of Offices17



Strategic Partnership

Optimal Performance Durable Equipment Long-term Warranties Simplified O&m Best-in-class Monitoring Installation Efficiency Product Innovation Supply Chain Management

2020 New Offices in Existing Markets (Q1)

Jacksonville, Florida Weslaco, Texas San Diego, California

Year-End Employee Count

362	2016 NJ
618	2017 NJ - NY - FL - CA
1,166	2018 NJ - NY - FL - CA - TX -PA - CT
2,253	2019 (As of November) NJ - NY - FL - CA - TX -PA - CT

2020 New Markets (Q1)

Phoenix, Arizona Boston, Massachusetts Charleston, South Carolina



Introducing **Sunpro Solar**

SUNPR SOLAR ENERGY SPECIALISTS

- Founded in 2008
- Sunpro Solar is one of the leading providers of rooftop solar for Gulf Coast and Southeast regions
- Ranked #8 for 2019 in Solar Power World's Magazine Top Solar Rooftop **Contractors Worldwide**
- Approximately 1100 employees with operations in Louisiana, Mississippi, Arkansas, Tennessee, Oklahoma, Texas, Georgia, South Carolina and Florida
- Focus on customer experience, forward thinking in terms of technology, and very successful in their markets

ENPHASE



Current Territories

100% Energized by ENPHASE.

50 MW Installed in 2019

Revenue





\$236,000,000

170,000 Enphase Inverters

Eric Branderiz Chief Financial Officer





New Baseline Financial Model

35% Gross

Margin

Pricing Management

New Products

Cost Reductions

15%

Operating Expenses¹

Executive Leadership in the U.S. Core teams in India & New Zealand No Compromise on Innovation





Sustainable Profitability Strong Cash Generating Model

All numbers are Non-GAAP



Revenue Growth Framework



Residential Solar

\$2K¹revenue per home now

17% SAM CAGR to 2022

IQ 8[™] brings added value

Continue share gain in NA, Grow Europe, **Enter Japan**

Residential Storage

+ -

Adds Over \$8K revenue²per home

~5% ENPH attach³ on new homes in US by Q4'20

\$80M retrofit revenue for every 1% of ENPH installed base

¹ENPH Assumption: ASP of \$100 per Microinverter system and 20 Microinverters per home ²ENPH Assumption: \$8K for 10KWh of Storage and Smart Switch ³ENPH Estimate





Small Commercial Solar



Offgrid Solar & Storage

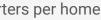
\$1.5B SAM in 2022

2020 **Product launch**

Targeting similar market share as residential by 2022

Blue Ocean Opportunity

2020 **Product launch**







Strong Balance Sheet

Adjusted FCF



Ending Cash

\$22M 2018

\$106M **Ending Cash**

¹2019 assumes midpoint of Q4'19 guidance. Refer to Appendix for adjusted FCF reconciliation to the most comparable GAAP measure 2019 ending cash is subject to prepayments received for the ITC safe harbor product shipments we will make in Q1'20









Conclusion



35-15-20 Our New Baseline **Financial Model**



Revenue Growth Framework Built on Ensemble[™]



Strong Balance Sheet and Healthy Free Cash Flow Generation

Laying The **Financial** Foundation For The Next Decade









Appendix





GAAP to Non-GAAP Reconciliation

\$ in Millions	Q1'19	Q2'19	Q3'19	Q4'19 ¹	FY19 ¹
Income (loss) from operations (GAAP)	\$7.1	\$17.4	\$33.7	\$40.3	\$98.5
Stock-based compensation expenses, restructuring and acquisition realted amortization	\$4.2	\$5.8	\$6.5	\$7.0	\$23.5
Income (loss) from operations (Non-GAAP)	\$11.3	\$23.2	\$40.2	\$47.3	\$122.0

\$ in Millions	2017	2018	2019 ¹
Cash flows from operating activities	\$(28)	\$16	\$90
Payments for acquisition reported in cash flows from operating activities	-	10	-
Purchases of property and equipment	(4)	(4)	(10)
Adjusted free cash flow	\$(33)	\$22	\$80

¹Assumes midpoint of guidance for Q4'19



Thank You

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