



# Bringing Resilience & Reliability Full Circle

Harry Godfrey  
Managing Director, Advanced Energy United  
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# Accelerating Challenges, Legacy Solutions

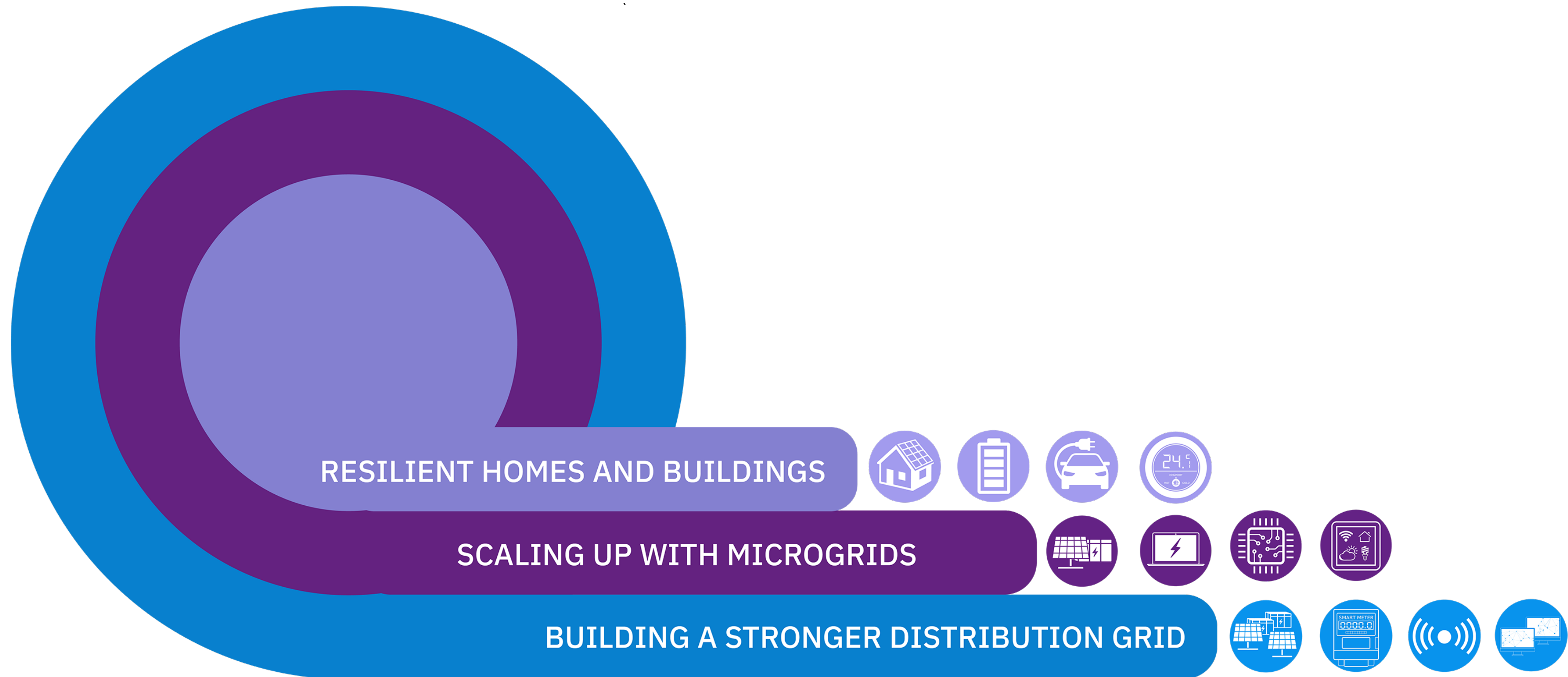
Can traditional approaches keep pace with the threats?



- **Reliability:** Ability of the grid to meet the needs of customers 24/7/365 by always having available capacity to serve load.
- **Resilience:** Ability of the grid to withstand events that can cause outages (e.g., extreme weather) and recover quickly when outages do occur.
- **Legacy Solutions:**
  - **Reliability:** Build more power plants & lines, ~energy efficiency
  - **Resilience:** Grid hardening, undergrounding, vegetation management

# Full Circle Resilience & Reliability

Harnessing advanced energy technologies across multiple levels



# Resilience & Reliability from Advanced Energy

On-the-ground examples of new solutions

Home Battery Storage (& Solar)



Texas

Microgrids



California

Aggregated DERs (VPPs)\*



New England

\* DERs: Distributed Energy Resources  
VPPs: Virtual Power Plants

# Towards Comprehensive Solutions

Surfacing the added value of advanced energy & incorporating appropriate solutions

## **Co-Benefits of Advanced Energy Solutions:**

- Cost Savings
- Precision Targeting
- Clean Energy Progress
- Customer Control & Satisfaction

## **Incorporating Adv. Energy into Resilience & Reliability Work:**

- Run All-Source RFPs
- Establish & Conduct Distribution System Planning (DSP) processes
- PUCs Open Regulatory Investigations into Cost-Effective Solutions
- Stakeholder Convenings

# Thank you.

Download the full report:



*Bringing Resilience & Reliability Full Circle:  
Harnessing Advanced Energy Technologies To Keep  
The Lights On*



[advancedenergyunited.org](http://advancedenergyunited.org)  
[@AdvEnergyUnited](https://twitter.com/AdvEnergyUnited)

1801 Pennsylvania Avenue NW, Suite 410  
Washington, DC 20006

