

ZPRYME GUEST CONTRIBUTOR SERIES

VOLUME 18 CURATED BY ERIN HARDICK

GOOD AFTERNOON,

How smart is the centralized grid? Or as this week's contributor, Andrea Ruotolo, likes to call it "last century's grid". This week we're looking at smart, resilient grid solutions and trends in distributed technologies, like rooftop solar. Enjoy Volume 18!



THE EVOLUTION OF A GOOD IDEA: SMART GRIDS FOR SMALL GRIDS

SLOK GYAWALI

Micro-hydro systems generate electricity by diverting a small amount of running water through a turbine. This powers homes, schools, and businesses not connected to a central or regional grid. A load distribution system is essential for striking a balance between the demand for electricity and the power supplied through the system. When the balance is off, the power goes out.

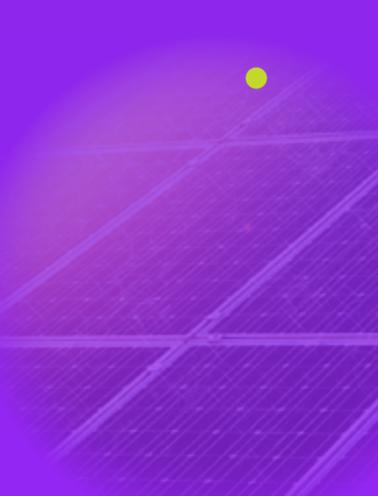
[Read the full article here](#)

ELECTRIC COOPERATIVES MUST OPERATE SMART ELECTRIC GRIDS: PART 1 AND 2

STEVE COLLIER

It will not be possible for electric distribution cooperatives to continue to operate as they always have if they are to provide acceptable electric energy service. They will require new smart grid capabilities: real-time monitoring, analysis, and control from the substation all the way to the customers' premises.

[Read the full article here](#)



THREE DIGITAL TRENDS RESHAPING RESIDENTIAL SOLAR

AUSTIN ROSENBAUM

The shift to a marketing dominated funnel, the rise of rooftop-level personalization and A.I. in solar education and marketing, and self-service in the customer solar experience are the three digital trends reshaping residential solar. However, these trends leave us with a few unanswered questions.

[Read the full article here](#)

A GRID THAT GAINS FROM DISORDER

ANDREA RUOTOLO

One distributed energy system (DES) alone can support one facility, but many DES interconnected can make the whole grid "smarter" and more resilient. DES can communicate with each other, identify and shut off problem areas, reroute power, and make the overall grid responsive to changing conditions and needs. DES are the fundamental building block of a resilient grid.

[Read the full article here](#)

CURATED BY ERIN HARDICK



As a member of the Zpryme team, Erin is responsible for creating content by aggregating, analyzing, editing, and formatting market data for energy and technology topics such as smart cities, transportation electrification and EVs, microgrid, renewable energy and distributed energy resources, block chain, transactive energy platforms, and operational and informational technology. Erin interviews different stakeholders in these areas to understand the ecosystem as a whole. She is dedicated to finding sustainable, clean energy solutions starting in the Austin area.

HAVE A TOPIC YOU'RE INTERESTED IN WRITING ABOUT?

I'd love to hear it. Shoot me an email at erin.hardick@zpryme.com to get involved.