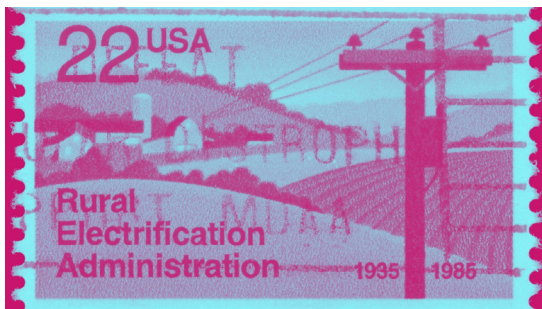


The clean energy transition is moving full speed ahead, accelerated by new technologies, services, and partnerships. This edition of Zpryme's Guest Contributor Series touches on scaling both renewable generation and the ability of the grid to handle that increased capacity, curbing vehicle emissions with new types of delivery service, and a public-private partnership to close the digital divide in one community. Enjoy Volume 49!



ELECTRIFICATION WON'T BREAK THE GRID: IT WILL MAKE IT SMARTER

**BY CORA WYENT AND SAM
CALISCH**

To meet our climate goals, we must electrify nearly everything in our economy. That will require delivering about two to three times more electricity than we do today. A share of this will come from clean solar energy generated right on our rooftops, but our grid will also need to grow significantly to deliver the remaining electricity demand. Skeptics of electrification say the grid won't be able to handle this, but history says otherwise.

[READ FULL ARTICLE](#)



HOW TRANSITION TO OUT- OF-HOME DELIVERIES COULD REDUCE CARBON EMISSIONS

BY AMANDA COWAN

The rise of ecommerce coupled with an inefficient supply chain has led to the transportation & logistics industry being responsible for 24% of all greenhouse gas emissions globally. Consumers demand fast & "free" delivery including flexible shipping options which have only exacerbated an already high polluting sector. A major problem of online shopping is the "last-mile" – the delivery to a customer at their home. Not only is the "last-mile" the most expensive & polluting part of the supply chain, but it's also the most inefficient.

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ARE OFFSHORE ENERGY ISLANDS THE FUTURE OF HYDROGEN AND E-FUEL PRODUCTION?

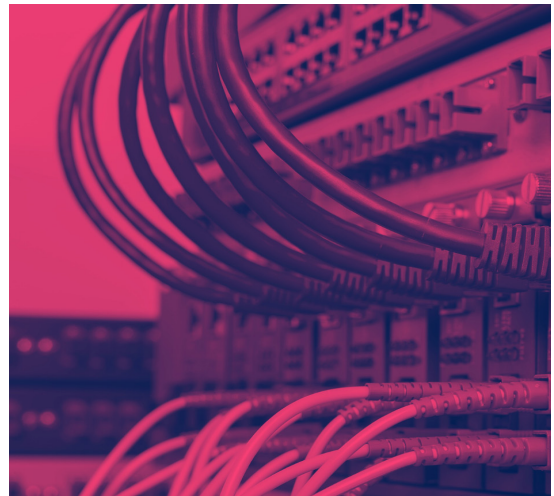
BY THOMAS HORSCHIG

The world's first energy islands are planned for the North Sea, offshore Denmark. Plans have been in the making for some time, but the war in Ukraine has dramatically increased the focus on energy security in Europe (DNV, 2022), and on greater offshore renewable generation supported by energy islands as a potential solution. The context is that more than half of Europe's energy needs are currently supplied by countries outside Europe.

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CURATED BY ERIN AUTIN
Senior Director of Research & Content at Zpryme



BROWNSVILLE, TEXAS & LIT COMMUNITIES PARTNER TO BUILD CITYWIDE FIBER NETWORK

BY ANN TREACY

Brownsville recently took a Texas-sized step toward the creation of better broadband options for its residents and businesses, as city commissioners voted in late July to enter into a public-private partnership to build a city wide fiber network known as BTX Fiber. All told, the network will include the deployment of 550 miles of fiber with middle mile construction expected to be complete in the next two years and the last mile connections to be completed in the next three years.

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HAVE A TOPIC YOU'RE INTERESTED IN WRITING ABOUT?

We'd love to hear it. Shoot Erin an email at erin.autin@zpryme.com to get involved.