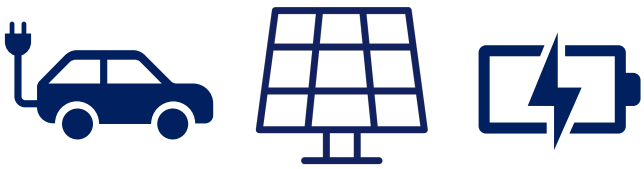
TEXAS ADVANCED ENERGY BUSINESS ALLIANCE

DISTRIBUTED ENERGY RESOURCES BRING VALUE TO TEXAS

WHAT ARE DISTRIBUTED ENERGY RESOURCES (DERs)?

Distributed energy resources provide new ways to produce power, manage electricity demand, and provide valuable grid services. These resources are smaller, flexible, located near customers, typically connected to the local distribution grid, and are capable of easing demand on the grid by injecting power locally or reducing demand.



DERs encompass a broad range of technologies including distributed solar, battery storage, thermal storage, customer-owned generation, connected devices such as smart thermostats, electric vehicles, demand response, and energy efficiency. Collectively, DERs can produce power, manage electricity demand, and provide valuable grid services.

HOW MUCH MONEY CAN TEXANS SAVE WITH DERs?

$5.47B

By integrating distributed energy resources into the grid, all Texas customers would save $5.47 billion over the next decade, according to a new study.*

The savings come from two main areas:

$2.45B

Savings for customers through avoided or deferred investments in transmission and distribution.

$3.02B

Savings in electricity costs with the addition of 1,000 MW of DER resources that deliver during high-priced peak demand periods.

TEXAS CAN BUILD ITS ENERGY LEADERSHIP WITH DERs

Texas has been at the forefront of energy innovation since the Legislature opened the electricity market to competition about 20 years ago. The next frontier in electric market competition is bringing distributed energy resources fully into Texas power markets to save billions of dollars for Texans.

As economics change and technology improves, customers are choosing to invest in DERs for more secure, clean, reliable, and affordable energy.

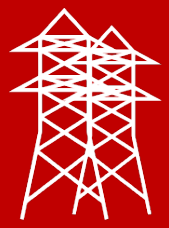
DER owners should have the choice to compete in any and all markets they are capable of competing in, whether individually or as part of an aggregation.

Texas policymakers, customers, and market participants should continue working together to identify new competitive business models, remove regulatory and market barriers, and expand opportunities for electricity market competition so that customers can reap the value that DERs can bring to Texas.

*About the Study

The Texas Advanced Energy Business Alliance commissioned a study produced by Demand Side Analytics to quantify the potential savings from the integration of DERs in Texas. Download the full report at texasadvancedenergy.org

DERs CAN REDUCE T&D COSTS



While some transmission and distribution investments cannot be avoided, infrastructure expansion due to peak load growth can be reduced, deferred, or avoided with DERs that are flexible and can inject power or reduce demand.

DERs CAN REDUCE ENERGY COSTS

By allowing DERs to participate in more fully in the market, or "supply stack," they can deliver additional power or energy savings during high-demand periods, mitigating extreme prices.

LOWER COSTS = MORE SAVINGS FOR CONSUMERS