



## City of Houston Resiliency Projects

# Northeast Water Purification Plant

The City of Houston relies on a natural gas microgrid from Enchanted Rock at the Northeast Water Purification Plant (NEWPP) expansion to ensure backup power for finished water production during power outages.

Leveraging Enchanted Rock's Resiliency-as-a-Service model, the microgrid doubles as a smart grid asset—supporting grid stability during peak demand and reducing operational costs relative to traditional systems.

Unlike diesel generators, the natural gas-fueled microgrid connects to a reliable underground pipeline network, allowing indefinite operation regardless of above-ground conditions—a critical feature in storm-prone Houston. The microgrid also meets Texas Commission on Environmental Quality standards while cutting emissions by as much as 99% compared to diesel alternatives.



## NEWPP Highlights

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**30 MW**  
Backup Power

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**33 MW**  
Emergency  
Standby Power

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**75**  
Natural Gas  
Generators

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**FULLY  
COMPLIANT**  
with Texas Commission on  
Environmental Quality

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**NATION'S  
LARGEST**  
Microgrid Serving a Water  
Purification Facility