



# DATA CENTERS & THE TEXAS GRID

Facts About Flexible Load Operations in Matagorda County

**BARRIO ENERGY**

Barrio Energy is a Houston-based, Texas-owned energy company operating modular data centers across the state. We use zero city water. Our facilities are flexible loads enrolled in ERCOT grid reliability programs — we power down during peak demand to keep the lights on for Texas families.



## WE STRENGTHEN THE GRID

Our tenants are enrolled in ERCOT's Emergency Response Service (ERS) and Controllable Load Resource (CLR) programs. When the grid is stressed, we shut down — freeing capacity for Texas homes and businesses.

We typically operate during morning and off-peak hours, and power down during afternoon/evening peaks.



## ENERGY: THE REAL NUMBERS

Using ERCOT's standard of 1 MW ≈ 250 homes during peak hours, a 10MW facility equals ~2,500 TX homes.

Because we curtail during peak demand, we create zero competition with residential growth. We consume power when there is surplus capacity and step off the grid when Texas families need it most.



## ZERO CITY WATER USED

Our modular data centers use closed-loop cooling systems that require no additional water resources. Period.

Unlike hyperscale facilities that rely on massive evaporative cooling towers, our closed-loop systems recirculate coolant with zero water consumption. We are not a hyperscaler — our footprint is fundamentally different.



## NOISE & LIGHT: MINIMAL

Our containerized data centers use modern noise mitigation — barriers, berms, and setbacks — reducing levels to ~37 dB at property lines. That is quieter than a library (40 dB).

All facilities comply with county and city noise, light, and setback requirements. Full cutoff lighting fixtures ensure zero light spillage at property lines.



## ECONOMIC IMPACT

Data centers contributed \$3.2B+ in TX state & local tax revenue in 2024.

We pay TDSP charges that fund grid infrastructure. Under SB6, large loads bear more interconnection costs, protecting residential ratepayers.



## WHO WE ARE

Barrio Energy is a Houston-based Texas energy company, founded by a 6th-generation Texan.

We are your neighbors, not a Big Tech corporation. Questions or concerns? Reach out directly:

[ivan@barrioenergy.com](mailto:ivan@barrioenergy.com)

**ZERO**

City Water Used

**ERS + CLR**

Grid Reliability Programs

**\$3.2B+**

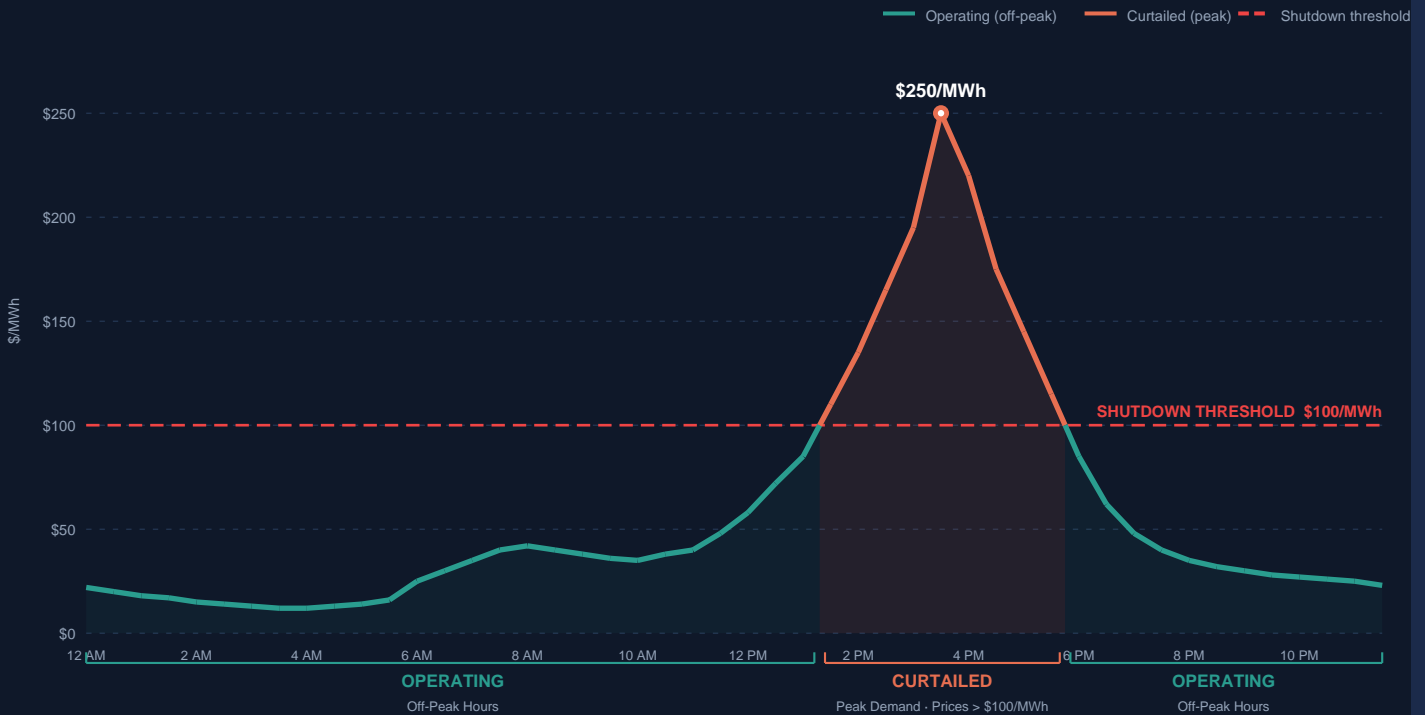
TX Tax Revenue (2024)

**100%**

Flexible Load Curtailable

## HOW FLEXIBLE LOAD OPERATIONS WORK

Example Case: ERCOT Wholesale Pricing & Barrio Energy Response



### When supply is short, we shut down.

Our facilities automatically curtail when wholesale prices spike or grid reserves tighten — freeing capacity during the hours Texas needs it most.

### When renewables drop, we power down to fill the gap.

Enrolled in ERCOT's ERS and CLR programs, our load is dispatched off the grid within minutes — keeping power flowing to homes and hospitals.

### We don't raise your electric bill — we lower it.

Flexible loads buy wholesale power. When we curtail during peaks, it reduces demand and pushes wholesale prices down for everyone.