Hidden Quarry Data Center - Innovation Park – Texas

Self-Powered Underground Data Centers + Flexible Surface Innovation Park

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Presented By

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Focus

Texas Innovation Infrastructure

The Problem

Texas faces a convergence of infrastructure challenges that demand bold, innovative solutions. The status quo is no longer sustainable.

⚡ ERCOT Grid Strain

Texas's independent power grid faces mounting pressure from surging data center demand, extreme weather events, and rapid population growth — pushing the system toward its limits.

💧 High Water Usage

Conventional data centers consume millions of gallons of water annually for cooling — a critical liability in drought-prone Texas where water scarcity is an escalating crisis.

👁 Visibility & Community Opposition

Large industrial facilities face fierce local resistance. Aesthetic impact, noise pollution, and perceived environmental harm drive community opposition that stalls critical projects.

🪨 Abandoned Quarries & Sand Pits

Texas is dotted with hundreds of abandoned quarries and sand pits — scarred, unproductive land sitting idle, representing both an environmental liability and an untapped opportunity.

THE SOLUTION

Repurpose. Power. Restore.

Transform abandoned Texas quarries and sand pits into **hidden underground data centers** — powered by Small Modular Reactors (SMR) — with flexible surface restoration into a vibrant mixed-use Innovation Park.

Repurpose Quarries

Convert idle, scarred excavations into world-class underground data infrastructure.

SMR Clean Power

On-site Small Modular Reactors deliver reliable, carbon-free electricity independent of the ERCOT grid.

Surface Innovation Park

Restore the surface into a thriving mixed-use campus that benefits the surrounding community.

How It Works

A carefully engineered system that leverages the natural geometry of quarry excavations to create a world-class, invisible data center infrastructure.

Multi-Level Structure

Large multi-level data center built inside the existing quarry excavation, maximizing the natural volume of the site.

Wide Tunnel Ramp Access

Purpose-built wide tunnel ramps allow full semi-truck access for equipment delivery, maintenance, and operations.

SMR Power On-Site

Small Modular Reactor positioned on surface or adjacent property delivers clean, reliable, grid-independent power.

Flexible Surface Treatment

Full cap with landscaping, terraced structures rising to ground level, or buildings extending above the rim — tailored to each site.

Surface Development

The surface becomes a **flexible mixed-use Innovation Park** — a thriving community asset with optional Tech and Medical components that generate lasting economic value.

Smart Hospital

State-of-the-art medical facility leveraging on-site clean power and data infrastructure for next-generation patient care.

Tech Hub & Innovation Campus

A magnet for technology companies, startups, and R&D operations drawn by reliable power, connectivity, and talent.

University Research Facilities

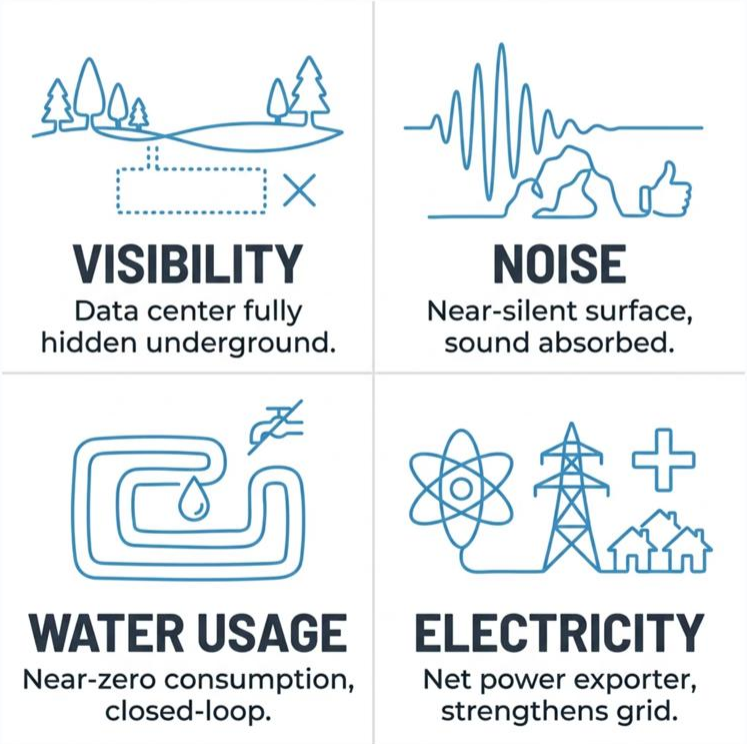
Partnerships with UT, Texas A&M, and Baylor bring world-class research, talent pipelines, and academic prestige to the site.

Green Space & Amenities

Parks, trails, and community amenities transform a former industrial scar into a beloved public asset and quality-of-life destination.

Addressing Community Concerns

Every major objection to traditional data center development is directly resolved by the Hidden Quarry model — turning opposition into community support.



- **Visibility:** The data center is fully hidden underground — invisible from the surface, with zero industrial aesthetic impact on surrounding neighborhoods.
- **Noise:** Underground placement within solid rock dramatically reduces operational noise. Surface activity is minimal and manageable.
- **Water Usage:** Closed-loop cooling systems consume near-zero water — a transformative improvement over conventional data centers that use millions of gallons annually.
- **Electricity:** On-site SMR makes the facility a **net power exporter** — strengthening the local grid rather than straining it.

Environmentally Friendly

The Hidden Quarry Innovation Park doesn't just minimize environmental harm — it actively **reverses decades of industrial damage** while setting a new standard for sustainable infrastructure.

🌱 Reclaims Brownfields

Transforms abandoned, scarred quarry land into productive, beautiful, community-serving infrastructure — restoring ecological and aesthetic value to neglected sites across Texas.

💧 Near-Zero Water Consumption

Closed-loop cooling technology eliminates the massive water footprint of conventional data centers, preserving Texas's precious and increasingly scarce water resources.

⚡ Net Energy Provider

Rather than consuming grid power, the on-site SMR generates surplus clean electricity — making the facility a net contributor to Texas's energy supply and grid stability.

Economic Impact

The Hidden Quarry Innovation Park delivers transformative economic benefits to Texas communities, counties, and the state — creating lasting prosperity from previously idle land.

1000s

High-Wage Jobs

Construction, operations, tech, medical, and research positions — permanent, well-paying careers anchored in the local community.

$B+

Tax Revenue & Land Value

Significant property tax revenue, sales tax generation, and dramatic uplift in surrounding land values benefit local governments and residents.

Top 3

Texas Data Center Boom

Texas ranks among the top US data center markets. Strong investor returns driven by surging demand, favorable regulation, and business-friendly environment.

PROJECT SCALE & COSTS

Investment Overview

The Hidden Quarry Innovation Park is structured for phased development — allowing a proven pilot to de-risk the path to full-scale deployment.

Texas's pro-business environment, abundant quarry sites, and surging data center demand create an exceptional window of opportunity for first-mover advantage.

1

Pilot Project (20–50 MW)

$300M – $800M — Proves the model, establishes operations, and demonstrates community and environmental benefits at manageable scale.

2

Full Project Deployment

$1B – $3B+ — Full-scale underground data center campus with complete Innovation Park surface development and SMR power infrastructure.

3

State & Local Incentives

Excellent incentive programs available through Texas state, county, and municipal governments — significantly improving project economics and investor returns.