

HISTORICAL-VINTAGE RECONSTRUCTION

What the Public Record Could Support by Day One

A cutoff-locked reconstruction of climate, grid, water, Community Readiness, and regulatory evidence for 8 publicly documented data-center projects. This is a dimension profile, not a Site Viability score, underwriting triage, or historical prediction.

Evidence rule

Only observation periods and public releases eligible by each project's conservative cutoff are admitted. Missing dimensions remain unknown. Climate is observation-date locked but uses the current ERA5 reanalysis vintage; water is WRI-release locked but state-level; generation queues are regional context only.

A profile, not a forced composite

Numbers are dimension-only context. Community Readiness and regulatory evidence are coverage labels. No historical composite, viability tier, or triage result is calculated.

Project	Cutoff	Climate	Grid	Water	Community	Regulatory
Prince William Digital Gateway Climate and Aqueduct context are...	2021-03-02 DAY	24 PARTIAL	— N/A	41 PARTIAL	PARTIAL	PARTIAL
Great Oak–Adjacent Data Centers (Amazon) Only climate and state Aqueduct conte...	2020-01-01 YEAR	24 PARTIAL	— N/A	41 PARTIAL	UNAVAILABLE	UNAVAILABLE
Hill County 1,200+ MW Campus Climate, regional queue, and Aqueduct...	2025-01-01 INFERRED	41 PARTIAL	25 PARTIAL	60 PARTIAL	UNAVAILABLE	UNAVAILABLE
Balico 'Hurricane Hills' Campus All three numeric core contexts are...	2024-10-18 DAY	31 PARTIAL	85 PARTIAL	52 PARTIAL	PARTIAL	PARTIAL
Roxbury Technology Park The three environmental/infrastructure...	2024-11-01 MONTH	25 PARTIAL	85 PARTIAL	52 PARTIAL	UNAVAILABLE	UNAVAILABLE
Tract Chesterfield Technology Park All three numeric core contexts are...	2025-02-03 DAY	31 PARTIAL	85 PARTIAL	52 PARTIAL	PARTIAL	PARTIAL
Project Blue (Amazon-linked) Climate and Aqueduct context are...	2025-02-24 DAY	56 PARTIAL	— N/A	75 PARTIAL	PARTIAL	PARTIAL
Crooked Creek Technology Park Climate and Aqueduct context are...	2025-09-25 DAY	31 PARTIAL	— N/A	38 PARTIAL	UNAVAILABLE	PARTIAL

Climate: five complete pre-cutoff years, explicit ERA5 model, current reanalysis vintage. Water: Aqueduct 3.0 for cutoffs through 2023-08-15; Aqueduct 4.0 thereafter. Grid: only editions published by the cutoff; generic utility-region substitutions are excluded.

Per-value cutoff, period, release, retrieval, checksum, transformation, and limitation. Checksums identify the retrieved response or frozen release file.

Prince William Digital Gateway

CUTOFF 2021-03-02 · DAY

Landowners publicly unveiled the initial 800-acre Digital Gateway concept.

CLIMATE 24 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2016-01-01 to 2020-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: 9f96059a084ef7df... · Five complete pre-cutoff years; typical 30-day P-ET 8 mm, mean daily maximum 68.3°F, and 3.8 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applied only t...

GRID — · UNAVAILABLE

Pre-LBNL historical queue vintage · Not scored

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: none... · No numeric value assigned; missingness is preserved.

WATER 41 · PARTIAL

WRI Aqueduct 3.0 baseline annual · Modeled baseline through 2014

Released: 2019-08-06 · Retrieved: 2026-08-26 · SHA-256: 09cecbf42730c273... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff https://www.princewilliamtimes.com/news/exclusive-massive-800-acre-data-center-deal-proposed-for-rural-crescent/article_b09c1858-7b8e-11eb-91bd-e7a7552f8c17.html; climate <https://...>

Great Oak–Adjacent Data Centers (Amazon)

CUTOFF 2020-01-01 · YEAR

Conservative first day of the year in which construction and blasting were later documented.

CLIMATE 24 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2014-01-01 to 2018-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: 33b02f669bbfe108... · Five complete pre-cutoff years; typical 30-day P-ET 1 mm, mean daily maximum 67.9°F, and 8.6 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applied only t...

GRID — · UNAVAILABLE

Pre-LBNL historical queue vintage · Not scored

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: none... · No numeric value assigned; missingness is preserved.

WATER 41 · PARTIAL

WRI Aqueduct 3.0 baseline annual · Modeled baseline through 2014

Released: 2019-08-06 · Retrieved: 2026-08-26 · SHA-256: 09cecbf42730c273... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff https://www.princewilliamtimes.com/news/manassas-neighborhood-battles-noise-from-data-centers/article_84b9f0ea-1ef1-11ed-a8a1-9307028db1fd.html; climate <https://archive-api.open-...>

Hill County 1,200+ MW Campus

CUTOFF 2025-01-01 · INFERRED

Approximate start of site-control and utility diligence, inferred from a later 16-month description.

CLIMATE 41 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2019-01-01 to 2023-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: f11f5605ccc512bb... · Five complete pre-cutoff years; typical 30-day P-ET -47.5 mm, mean daily maximum 79.2°F, and 8.6 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applied only t...

GRID 25 · PARTIAL

LBNL Queued Up 2024 Edition (data through 2023) · Interconnection queue records through 2023-12-31

Released: 2024-04-23 · Retrieved: 2026-08-26 · SHA-256: 1f37dc6476f5a364... · ERCOT generation-queue median duration mapped to the contemporaneous queue scale (25); later isolated-grid and 2026 queue-freeze penalties are excluded.

WATER 60 · PARTIAL

WRI Aqueduct 4.0 baseline annual · Modeled baseline 1979–2019

Released: 2023-08-16 · Retrieved: 2026-08-26 · SHA-256: bd3ed2bce88d6ff1... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff <https://www.kwtx.com/2026/05/28/illegal-under-texas-law-data-center-developer-files-lawsuit-against-hill-county-moratorium/>; climate <https://archive-api.open-meteo.com/v1/archive?...>

Balico 'Hurricane Hills' Campus

CUTOFF 2024-10-18 · DAY

The 2,200-acre rezoning request appeared in the local newspaper/public notice.

CLIMATE 31 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2019-01-01 to 2023-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: 2e046434e00e067a... · Five complete pre-cutoff years; typical 30-day P-ET -14.1 mm, mean daily maximum 71.2°F, and 4.2 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applied...

GRID 85 · PARTIAL

LBNL Queued Up 2024 Edition (data through 2023) · Interconnection queue records through 2023-12-31

Released: 2024-04-23 · Retrieved: 2026-08-26 · SHA-256: 1f37dc6476f5a364... · PJM generation-queue median duration mapped to the existing 0–100 regional pressure scale (85).

WATER 52 · PARTIAL

WRI Aqueduct 4.0 baseline annual · Modeled baseline 1979–2019

Released: 2023-08-16 · Retrieved: 2026-08-26 · SHA-256: bd3ed2bce88d6ff1... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff <https://appvoices.org/2025/07/09/community-defeats-gas-plant-and-data-center-proposal/>; climate <https://archive-api.open-meteo.com/v1/archive?...>

Per-value cutoff, period, release, retrieval, checksum, transformation, and limitation. Checksums identify the retrieved response or frozen release file.

Roxbury Technology Park

CUTOFF 2024-11-01 · MONTH

Conservative first day of the month in which Diode first submitted plans.

CLIMATE 25 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2019-01-01 to 2023-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: 94973e5a5c75276d... · Five complete pre-cutoff years; typical 30-day P-ET 2.1 mm, mean daily maximum 70.7°F, and 4.4 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applied only t...

GRID 85 · PARTIAL

LBNL Queued Up 2024 Edition (data through 2023) · Interconnection queue records through 2023-12-31

Released: 2024-04-23 · Retrieved: 2026-08-26 · SHA-256: 1f37dc6476f5a364... · PJM generation-queue median duration mapped to the existing 0–100 regional pressure scale (85).

WATER 52 · PARTIAL

WRI Aqueduct 4.0 baseline annual · Modeled baseline 1979–2019

Released: 2023-08-16 · Retrieved: 2026-08-26 · SHA-256: bd3ed2bce88d6ff1... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff <https://richmondbizsense.com/2025/06/26/charles-city-county-defers-data-center-decision-amid-public-outcry/>; climate <https://archive-api.open-meteo.com/v1/archive?...>

Tract Chesterfield Technology Park

CUTOFF 2025-02-03 · DAY

First project-specific public report of Tract's 744-acre Branders Bridge rezoning request.

CLIMATE 31 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2020-01-01 to 2024-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: f47f3529242997c0... · Five complete pre-cutoff years; typical 30-day P-ET -3.3 mm, mean daily maximum 71.5°F, and 4.4 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applied only t...

GRID 85 · PARTIAL

LBNL Queued Up 2024 Edition (data through 2023) · Interconnection queue records through 2023-12-31

Released: 2024-04-23 · Retrieved: 2026-08-26 · SHA-256: 1f37dc6476f5a364... · PJM generation-queue median duration mapped to the existing 0–100 regional pressure scale (85).

WATER 52 · PARTIAL

WRI Aqueduct 4.0 baseline annual · Modeled baseline 1979–2019

Released: 2023-08-16 · Retrieved: 2026-08-26 · SHA-256: bd3ed2bce88d6ff1... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff <https://richmondbizsense.com/2025/02/03/denver-firm-tract-seeks-to-rezone-700-plus-acres-for-data-center-park-in-chesterfield/>; climate <https://archive-api.open-meteo.com/v1/archive?...>

Project Blue (Amazon-linked)

CUTOFF 2025-02-24 · DAY

Pima County Administrator formally disclosed the site, sale, rezoning, and annexation proposal.

CLIMATE 56 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2020-01-01 to 2024-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: 905941c0450763b1... · Five complete pre-cutoff years; typical 30-day P-ET -140.8 mm, mean daily maximum 83.7°F, and 7.5 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applie...

GRID — · UNAVAILABLE

No verified utility-specific historical snapshot · Not scored

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: none... · No numeric value assigned; missingness is preserved.

WATER 75 · PARTIAL

WRI Aqueduct 4.0 baseline annual · Modeled baseline 1979–2019

Released: 2023-08-16 · Retrieved: 2026-08-26 · SHA-256: bd3ed2bce88d6ff1... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff <https://content.civicplus.com/api/assets/255b1702-c249-469a-98ed-8e6ef6d4a149>; climate <https://archive-api.open-meteo.com/v1/archive?...>

Crooked Creek Technology Park

CUTOFF 2025-09-25 · DAY

Rezoning and facility plans were submitted.

CLIMATE 31 · PARTIAL

ERA5 explicit model selection; current reanalysis vintage · 2020-01-01 to 2024-12-31

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: eab95b3614341e5f... · Five complete pre-cutoff years; typical 30-day P-ET -5.1 mm, mean daily maximum 76.5°F, and 6.1 apparent-temperature days "e95°F per typical 30-day window. Current climate component bins were applied only t...

GRID — · UNAVAILABLE

No verified utility-specific historical snapshot · Not scored

Released: no preserved publication date · Retrieved: 2026-08-26 · SHA-256: none... · No numeric value assigned; missingness is preserved.

WATER 38 · PARTIAL

WRI Aqueduct 4.0 baseline annual · Modeled baseline 1979–2019

Released: 2023-08-16 · Retrieved: 2026-08-26 · SHA-256: bd3ed2bce88d6ff1... · Area-weighted baseline-water-stress score across the site's state, converted from WRI's 0–5 scale to 0–100. The version is selected solely by public release date before the cutoff.

Source URLs: cutoff <https://wgxa.tv/news/local/developers-withdraw-rezoning-application-jones-county-data-center-ahead-of-planning-and-zoning-hearing-thomas-hutton-engineering-eagle-rock-partners-...>