

Utility Profit

Utility Provider Lookup

Provider Verification Process

Overview

The lookup system identifies and verifies utility providers for any US address across four categories: Electric, Gas, Water, and Internet.

Each lookup uses a multi-step verification process combining government databases, state-specific authoritative data, and Google Search verification via AI.

Cost Per Lookup

Each lookup costs approximately \$0.02, broken down as follows:

Component	Cost	Source
Address Geocoding	\$0	US Census (free)
Electric/Gas Lookup	\$0	Government APIs (free)
Internet Providers	~\$0.01	FCC Broadband Map
Google Verification	~\$0.01	Search + AI Analysis
Total	~\$0.02	

Verification Process

Step 1: Address Geocoding

The street address is converted to GPS coordinates using the US Census Geocoder. This also returns city, county, state, and ZIP code.

Step 2: Electric Utility (Nationwide)

Three methods are used to identify the electric provider:

- 1. Federal Database (HIFLD):** Query the government database of electric utility territories to find utilities serving the location.

2. **EIA Form 861 Data:** Federal data mapping 31,633 ZIP codes to 143 investor-owned utilities across all 50 states (Duke Energy, Con Edison, PG&E, etc.).
3. **Google Verification:** A Google search for the address + "electric utility" is analyzed by AI to confirm the match.

Step 3: Gas Utility (Nationwide)

Similar process to electric:

4. Query the federal database of natural gas territories
5. Verify against a database of ~150 major gas utilities covering all 50 states + DC
6. Confirm with Google search

Note: Some areas lack natural gas service. In those cases, the system indicates the area likely uses propane.

Step 4: Water Utility

7. Query the EPA database of all public water systems in the US
8. Filter by city and county, prioritizing larger systems
9. Verify with Google search

Step 5: Internet Providers

The official FCC Broadband Map is scraped to retrieve:

- All internet service providers at the address
- Fiber and cable availability
- Download and upload speeds for each provider
- Best wired and wireless options

Confidence Levels

Each result includes a confidence level indicating reliability:

Level	Meaning
Verified	Matched government data AND confirmed by Google search
High	Strong database match, Google confirms
Medium	Database match, Google inconclusive
Low	Uncertain, manual verification recommended

Coverage by State

Electric Utilities - Nationwide

Electric utility data covers all 50 states through multiple data sources:

Data Source	Coverage	Details
EIA Form 861	All 50 states	143 utilities, 31,633 ZIP codes
HIFLD Territories	All 50 states	~3,000 utilities (polygon data)
Texas TDU Mapping	Texas only	5 TDUs + municipal utilities

Example Electric Utilities by State

- **California:** Pacific Gas & Electric, Southern California Edison, San Diego Gas & Electric
- **New York:** Con Edison, National Grid, NYSEG, RG&E
- **Florida:** Florida Power & Light, Duke Energy Florida, Tampa Electric
- **Pennsylvania:** PECO, PPL, Duquesne Light, West Penn Power
- **Illinois:** ComEd (Commonwealth Edison), Ameren Illinois
- **Ohio:** AEP Ohio, Duke Energy Ohio, FirstEnergy
- **North Carolina:** Duke Energy Carolinas, Duke Energy Progress

Gas Utilities - Nationwide

The gas utility database covers all 50 states plus DC with approximately 150 major local distribution companies (LDCs).

Example Gas Utilities by State

- **California:** SoCalGas, PG&E, San Diego Gas & Electric
- **New York:** Con Edison, National Grid, National Fuel Gas
- **Pennsylvania:** PECO, Columbia Gas, UGI, Peoples Gas
- **Illinois:** Nicor Gas, Peoples Gas, Ameren Illinois
- **Ohio:** Columbia Gas, Dominion Energy, Duke Energy Ohio
- **Carolinas:** Piedmont Natural Gas, Dominion Energy

Texas-Specific Data (Enhanced)

Texas has additional ZIP-level mapping because it is a deregulated market. Customers can choose their Retail Electric Provider (REP), but the Transmission & Distribution Utility (TDU) is fixed by location.

Electric TDUs

TDU	Service Area
Oncor	Dallas/Fort Worth, North Texas
CenterPoint	Houston metro area
AEP Texas North	Lubbock, Abilene area
AEP Texas Central	Corpus Christi, South Texas
TNMP	Scattered areas

Municipal utilities (Austin Energy, CPS Energy in San Antonio, etc.) are not part of the deregulated market.

Texas Gas Utilities

Gas Utility	Service Area
Atmos Energy	DFW, West Texas, Panhandle
CenterPoint Energy	Houston metro area
Texas Gas Service	Austin, El Paso, other areas

Data Sources Summary

Utility Type	Primary Data Source	Verification
Electric	HIFLD + EIA Form 861 + State data	Google Search + AI
Gas	HIFLD + State LDC database	Google Search + AI
Water	EPA SDWIS database	Google Search + AI
Internet	FCC Broadband Map	Direct from FCC (authoritative)