

→ Retail electricity rate curves



Subscription product

On-demand retail rate forecasts of residential and commercial rate classes for select states and utilities, updated half-yearly (Q1 and Q3).

Customized product

Retail rate forecasts for utilities and rate classes, not covered under subscription product, with the option to modify key assumptions.

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About ICF

ICF (NASDAQ:ICFI) is a global consulting and technology services company with approximately 9,000 employees, but we are not your typical consultants. At ICF, business analysts and policy specialists work together with digital strategists, data scientists and creatives. We combine unmatched industry expertise with cutting-edge engagement capabilities to help organizations solve their most complex challenges. Since 1969, public and private sector clients have worked with ICF to navigate change and shape the future.



Forecast electricity retail rates using trusted data and insights

Retail rate tariff modeling for power and renewables market investors, generation owners, and project developers.

Models and projections are backed by ICF's 200+ energy experts—using our deep understanding of each market. Make better investment decisions using our fundamental based outlooks. The ongoing grid transition coupled with increasing volatility in the energy markets, requires a more detailed modeling approach to capture the uncertainty in future retail rates.

Modeling approach

Our model inputs include assumptions and forecasts developed by ICF:

Wholesale market

- Energy and capacity prices
- Renewable energy credit prices
- ISO demand and energy projections
- Transmission network charges

Utility and state

- Utility ratemaking and cost recovery mechanism
- Regional and utility load projections
- Utility expansion plans
- Rate information provided by utility and state PUC
- State mandates and incentive programs

For a rate class, we develop a forecast model which outputs the major rate components in the supply and delivery charges of the retail tariff.

- ICF uses our base case wholesale market price curves along with ISO and utility load projections to estimate the energy procurement costs of the utility. The utility's cost allocation and recovery structure are then applied to forecast the electricity supply charges for the rate class.

- ICF examines the utility’s ratemaking mechanism and retail rate structure to determine the best approach to model the individual rate components in the delivery charges, which include utility’s cost allocation and recovery mechanism, recovery of state-mandated incentive programs, growth rates from regression-based analysis of historical data, and multipliers indexed to forecasts or assumptions.

Distributed generation program incentives

ICF also models the impact of the retail rates on distributed generation programs, which may be indexed to retail rates, such as feed-in-tariff contracts and net metering (billing compensation, credit banking, and export compensation). The projections for these indexed incentives will use asset specific inputs from the client or relevant ICF assumptions.

Subscription product coverage snapshot

