



Power & Environmental Market Traders

Traders leverage ESAI Power's market data and insights to assist in their most critical trading & investment decisions. Our objective capacity, energy, carbon, nat-gas, congestion & RECs forecasts give power & environmental market traders a competitive edge.

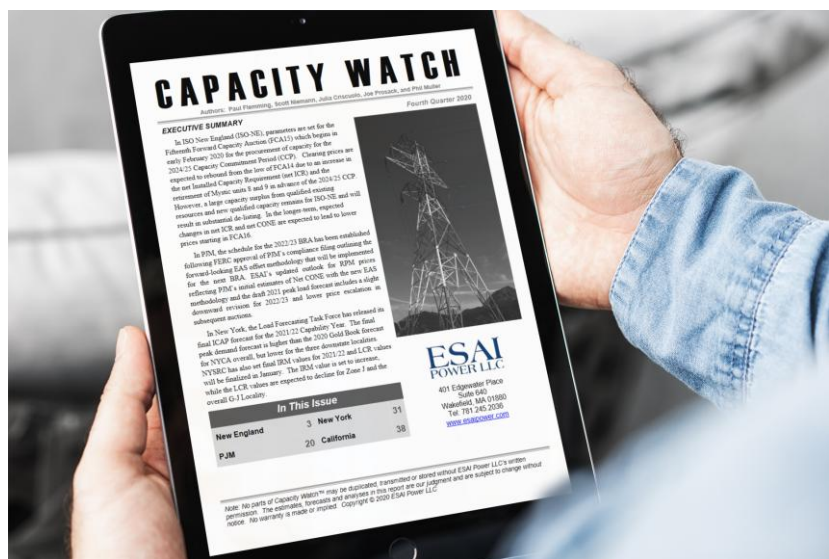
Power, Capacity, Carbon & Congestion Forecasts

ESAI Power provides an unbiased, informed fundamental view to support power and environmental market traders focused on the US power markets. Our market reports and analyst insights into complex market dynamics help traders make informed trading decisions in the ever-changing and evolving US power markets.

Objective Analysis for Power Traders

For 22 years, ESAI Power has provided traders with objective analysis based on sound fundamental modeling. With a deep understanding of how market rule changes and regulatory issues impact market outcomes in PJM, NYISO, ISO-NE & MISO. ESAI's reports include price forecasts for Capacity, Carbon, Power, Natural Gas and Congestion.

ESAI's forecasts are published to a client base of generation owners & investors - thus we must remain unbiased. ESAI publishes "the un-varnished truth" in our long-term forecasts. Generation Asset Monitor produces granular plant-by-plant detail to inform our 10-year generation and retirement assumptions.



Power and Environmental Traders leverage ESAI's Power market insights to:

- Inform FTR Trading decisions.
- Validate Asset Valuations and make informed trades, purchases and sales.
- Stay up to date on regulatory changes and the impact on power and carbon prices.
- Assess how market rule changes will impact gross revenues over time.
- Conduct effective energy asset analysis.
- Form an accurate view of power & environmental market trends and the direction of power prices based on a full understanding of the supply / demand balance.

Transactable Energy Asset Analysis

Power and Environmental market traders need accurate information to make sound decisions. ESAI Power's price forecasts reflect the known & expected changes in market rules and operating conditions. Our unparalleled market auction coverage allows traders to dig into our market assumptions to understand on a deep, granular level how new generation additions, potential retirements or market rule changes may relate to auction trading dynamics and relative shifts in market conditions.

ESAI Power's Capacity, Power, NatGas, Congestion, Carbon, & RECs market reports keep trading teams informed of market developments such as congestion trends and patterns, generator additions / retirements, growth in renewable resources, changes in load growth projections, and how emissions market rule & regulatory changes will change prices over the next decade.

With access to a comprehensive overview of markets through price forecasts, market data, market reports and access to senior experts, power traders have a full suite of tools to support power & environmental trading.

Power, Environmental & Capacity Markets



Power Markets Trends & Forecasts

ESAI offers comprehensive views on the PJM, New York, & New England energy markets.

Our forecasts include zonal LMP forecasting developed using dispatch modeling based on current and projected transmission topology and detailed natural gas pricing projections at specific regional gas delivery points.

In **Energy Watch™**, ESAI delivers ten-year zonal energy price forecasts for most zones in PJM, NYISO & ISO-NE. Medium-term, nine-month energy price forecasts are provided for key zones and hubs. Our weekly outlooks are published in ESAI's Bal-Week and Next-Week market reports.

For FTR Traders, ESAI delivers a monthly **Congestion Watch™** report that presents a one-month outlook for the congestion component of LMP prices in PJM, NY & NE's most active zones. We provide insights into LMP basis pricing risks faced by generators next month due to expected generator & transmission outages. The forecasts and insights inform trading decisions and management of congestion pricing risks in FTR markets.

Transmission Watch™ delivers an in-depth look at transmission investment, project updates and important challenges facing independent and utility owned transmission projects.

Capacity Markets

Capacity markets are a source of significant revenues for generation assets. ESAI provides quarterly analysis and insights to support capacity market forecasts for every capacity area across ISO-NE, NYISO, PJM, & MISO.

Structured traders can make more informed decisions and capitalize on changing supply and demand conditions by tracking key market indicators and potential policy changes.

ESAI closely monitors the ISO-NE, NYISO, PJM & MISO capacity markets, including updates to demand curve parameters, changes in peak load, new generation & retirements, shifts in regional transmission impacting capacity areas, and evolving market rules. Additional factors such as market mitigation & queue delays are addressed and outlined in ESAI's **Capacity Watch™** reports.

Traders operating in the bilateral market stay up to date with recent changes in Capacity prices. Our Generation Asset Monitor is a detailed database of expected generator retirements and projections for new build projects by technology in each power pool.

Environmental Markets

ESAI produces deep analysis & long-term forecasts for RGGI CO₂, RECs, SO₂, Annual / Seasonal Nox (CSAPR group 2 & 3), to support environmental products traders.

Renewables Watch™ coverage includes solar, onshore and offshore wind, hydroelectric and storage. For PJM, NYISO, and ISO-NE ESAI details the regulatory, interconnection queue challenges, and retirement assumptions that impact the supply and demand balance for Class I RECs, keeping a close eye on renewable energy supply and demand to forecast Class I RECs.

Emissions Watch™ coverage includes RGGI Program analysis and carbon price forecasts at both a state & RTO level. ESAI follows carbon market developments at the fed, regional and state levels that impact the emissions markets. We report on changes to existing regulations (Mercury & Air Toxics, CSAPR & Particulate Matter 2.5) and analyze the potential impacts of new and proposed regulations.

Business Benefits

Unbiased Partner for Power Traders

ESAI Power's market data and insights are used by Power & Environmental market traders to support their most critical trading decisions. ESAI is well known for objectivity, since we publish to a large subscriber base of market participants every week, month & quarter - we always deliver unbiased, objective power & environmental forecasts to subscribers.

Market forecasts are backed by transparent assumptions and are delivered in ESAI's market reports or in excel form for ease of use in revenue and margin projections. Market conditions constantly change, which means risk and upside are always on the horizon for traders.

ESAI Power's market forecasts are based on the most reasonable expectations of future outcomes, and market projections and commentaries include assessments of the range of risk outcomes. Client-specific scenario analysis and custom forecasts can be produced on request on a fixed price, fixed scope basis.

Strategize for Auction Activities

Power markets and Environmental traders leverage ESAI Power's analytics to better understand the supply stack dynamics, movements in the interconnection queue, upcoming retirements, and plants at-risk of retirement to better inform their view of the market supply/demand balance.

Our long-term forecasts are used regularly to validate revenue streams, and gross margin forecasts in support of structured trading, monthly auctions, as well as seasonal and annual auction bid strategies.

With 22-years experience, ESAI has valued the vast majority of assets in PJM, NYISO & ISO-NE and has an excellent reputation in the financial markets for sound fundamental power price forecasting.

ESAI informs you of state, regional, and fed-level policy developments that impact power, congestion, and environmental trading. We also update clients on early developments in the various ISO/RTO committees.



Contact Us

For more information about how we can make a difference for your business, please call Brian Doyle at **+1 (617) 678-7962** or email bdoyle@esai.com



About ESAI Power

ESAI Power is a market research and consulting firm that delivers focused analysis of the wholesale power markets in the U.S.: PJM, NYISO, ISO-NE & MISO. Since 2001, ESAI has provided market-focused research product content and custom consulting services for Northeast power market participants, including investors, traders, renewable developers, generation owners & operators, utilities, regulatory bodies, traders, and corporate energy buyers.

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