Global Renewables Alliance

Corporate renewable sourcing

Beyond capacity additions towards system resilience

The role of corporate renewable energy sourcing in shielding consumers and countries from economic shocks

Energy security beyond capacity additions

As geopolitical tensions continue to reshape global energy markets and expose the vulnerabilities of import-dependent economies, the way we source and account for renewable power is undergoing a fundamental shift. In the context of rising global power demand (IEA, 2026), and record renewable capacity additions (IRENA, 2025; Ember, 2025), system resilience is increasingly defined not by capacity additions only but by the ability to deliver renewable electricity when and where it is needed. Through long-term renewable energy procurement tools such as power purchase agreements (PPAs), complemented by storage, flexibility mechanisms and firm power, governments and non-state actors alike can reduce their exposure to fossil fuel volatility and ensure price certainty.

Corporate procurement as a strategic lever

Corporate renewable energy sourcing plays a key role in hedging against external shocks: in 2025, corporates signed 63.3 GW of offsite corporate PPAs, including growing volumes of clean firm power and co-located and hybrid projects (BNEF, 2026 Q1 update). This growth reflects a broader shift in how the private sector approaches energy. Long-term procurement instruments are increasingly seen as essential to energy security, economic resilience, and industrial competitiveness. Recent global energy crises have exposed the risks of reliance on fossil fuels and lack of long-term foresight in energy planning.

The shift toward 24/7 CFE

The next frontier is advancing 24/7 carbon-free energy (24/7 CFE): aligning electricity consumption with renewable generation on an hourly basis. This approach transforms corporate demand into a driver of system investment, accelerating storage, grid modernization, and flexible capacity. It also reflects how power systems operate, making it a more credible foundation for policy, investment decisions as well as carbon accounting.

Electrification and renewable procurement for energy security

At times of global energy crises, electrifying end-use sectors and covering that demand with long-term renewable energy procurement tools such as PPAs is one of the most effective ways to reduce exposure to fossil fuel volatility, ensure price certainty and drive international competitiveness. As standards, regulations, and corporate demand increasingly converge around granular renewable energy sourcing, 24/7 CFE is evolving from a voluntary leadership practice into a strategic requirement for resilient and future-ready energy systems.

Actions for wider 24/7 carbon-free energy (24/7 CFE) deployment

Technology

Progress: Emerging technologies for 24/7 CFE are attracting capital

Action needed: Deploy targeted policy to de-risk and scale emerging 24/7 CFE technologies

Electricity data

Progress: Electricity data transparency and access is expanding in certain markets

Action needed: Expand global disclosure of hourly grid data to enable transparent 24/7 CFE tracking

Grids

Progress: Grid reforms have been underway

Action needed: Scale grid investment to match renewable growth and unlock firm 24/7 integration

Certificates

Progress: Hourly renewable energy certificates (RECs) are entering the market

Action needed: Accelerate hourly REC markets to support credible 24/7 CFE claims and compliance

Market design

Progress: Auction designs have been evolving towards hybrid, peak-power, and round-the-clock solutions

Action needed: Shift auction designs to hybrid, peak-power and round-the-clock models

Procurement

Progress: High-impact, cost-effective Carbon-Free Energy procurement options are growing worldwide

Action needed: Remove barriers to PPAs, green tariffs and cross-border clean power contracts