



SUSALIENT

2025

ENERGY UTILITIES & RENEWABLES (EU&R)



A forward view of Energy & Utilities M&A in 2025 — analyzing the transition, investment flows, and consolidation reshaping the sector.



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01

**SECTOR
BACKGROUND**

Energy, Utilities and Renewables Background

Energy, Utilities and Renewables (EUR) underpin every aspect of the global economy. They are not only responsible for the fuel that powers transport and industry, or the electricity that lights homes and runs data centres, but also for the systems that enable modern society to function. Unlike discretionary industries, energy is foundational: without reliable and affordable supply, economies falter, inflation rises, and geopolitical tensions escalate. The sector is vast in scale. According to the International Energy Agency (IEA), global energy supply chains account for roughly 10% of global GDP directly and far more indirectly, given their role as an input into every sector (IEA, 2023). At the same time, the sector is uniquely exposed to climate and policy pressures: energy systems generate almost three-quarters of global greenhouse gas emissions, placing them at the heart of the transition to net zero (IEA, 2023).

From a corporate finance perspective, EUR is also one of the most capital-intensive industries in the world. The IEA estimates that the energy transition alone will require \$4 trillion in annual investment by 2030 (IEA, 2023). This scale of capital deployment cannot be achieved organically; M&A is the mechanism through which capacity, technology and market share are reallocated.

Why M&A Is Critical In EUR

M&A plays four systemic roles in the EUR sector:

1. Accelerating the transition: Oil and gas majors acquire renewables platforms to deliver on climate commitments. For example, BP's acquisitions of solar developers Lightsource BP and 7X Energy gave it immediate exposure to US and European pipelines (PwC, 2025).
2. Consolidating for resilience: Fragmented industries such as US shale or European utilities consolidate to achieve scale efficiencies.



ExxonMobil's \$60bn acquisition of Pioneer Natural Resources (2023) epitomised this trend, securing prime acreage in the Permian Basin (FTI, 2025).

- Recycling capital: Mature, low-risk assets such as operating wind farms are often sold by developers to infrastructure investors, freeing up capital for new projects. Ørsted's divestments of offshore wind stakes to pension funds illustrate this model (Bain, 2025).
- Securing strategic resources: From lithium mines in Argentina to LNG terminals in Europe, M&A is being used to lock in critical supply and infrastructure amidst geopolitical tension (TLT, 2025).

In short, M&A is the transmission belt through which energy system transformation occurs.

Structural Forces Shaping the Sector

Several structural realities explain why EUR is so M&A-intensive:

Decarbonisation and net zero

- The transition to net zero requires rewiring the global energy system. Oil majors face investor pressure to decarbonise, utilities must massively expand grids, and new entrants race to commercialise hydrogen, carbon capture, and advanced nuclear. M&A provides speed and optionality in navigating this shift (DLA Piper, 2025).

Geopolitics and energy security

- Russia's invasion of Ukraine in 2022 reshaped European energy flows, with LNG imports replacing pipeline gas. China's dominance in solar and battery supply chains (over 70% of lithium refining and rare earth processing) has heightened Western concerns about dependency (IEA, 2023).
- These dynamics drive governments and corporates to use M&A to secure assets abroad (TLT, 2025).

Capital intensity

- Energy is one of the world's most capital-hungry sectors. Utility-scale solar, offshore wind, LNG liquefaction plants, and new mines require billions in upfront capital.



Infrastructure funds, sovereign wealth funds, and private equity have become dominant buyers, reshaping ownership structures (PwC, 2025).

Technology cycles

- Breakthroughs in storage, hydrogen, and digital optimisation of grids are reshaping the economics of energy. Large incumbents often acquire smaller innovators rather than build from scratch. For example, Shell's acquisition of sonnen (battery storage) gave it access to behind-the-meter solutions (McKinsey, 2025).

Capital recycling

- Mature assets (e.g., offshore wind farms, oil pipelines) are frequently sold by developers to infrastructure investors, freeing up balance sheets for riskier early-stage projects (PwC, 2025).

Sector Composition

The EUR sector can be viewed as an interconnected ecosystem rather than discrete silos:

- Oil & Gas: Still dominant in global supply, though under pressure from investors and regulators to reduce emissions. Recent mega-deals, such as ExxonMobil's \$60bn purchase of Pioneer, show consolidation as a path to scale (PwC, 2025).
- Utilities: Facing unprecedented grid investment needs as electrification accelerates, while also shifting portfolios toward renewables (Bain, 2025).
- Renewables: The fastest-growing subsector, accounting for almost 80% of new global power capacity in 2023 (IEA, 2023). However, rising costs in offshore wind and supply-chain bottlenecks are driving portfolio-level M&A (McKinsey, 2025).
- Critical Minerals: Lithium, cobalt, and copper are increasingly viewed as "the new oil." Governments and corporates are securing stakes in mines to reduce reliance on China (TLT, 2025).
- Services & Technology: Energy services firms (EPC, oilfield services, storage developers) are benefiting from investment cycles in LNG, offshore wind, and grid resilience (McKinsey, 2025).



Why This Matters for Dealmakers

M&A in EUR carries consequences far beyond corporate balance sheets:

- Economic: Energy costs directly influence inflation and industrial competitiveness.
- Geopolitical: Control of assets like LNG terminals or lithium mines can shift global power balances.
- Climate: Who owns and scales low-carbon technologies will determine whether global decarbonisation targets are met.

For investors, the sector offers both defensive characteristics (regulated utilities with stable returns) and growth opportunities (renewables, storage, hydrogen). For governments, every major transaction is also a question of energy security and climate credibility.

In this context, EUR dealmaking is not only a financial story – it is a political, technological, and societal one (FTI, 2025; DLA Piper, 2025).



02

**Core Themes
Shaping EU&R
M&A**

Energy Transition and Net Zero

The energy transition is the central macro driver of M&A across the Energy, Utilities & Renewables (EUR) sector. Unlike previous cycles, which were shaped primarily by commodity price swings, the current wave is driven by structural decarbonisation imperatives. Over 140 countries, representing more than 90% of global GDP, have now pledged net-zero by mid-century (IEA, 2023). These commitments are reshaping corporate strategy, investor expectations, and regulatory frameworks simultaneously.

For companies, the challenge is existential. Oil and gas incumbents must adapt portfolios to remain investable, utilities must decarbonise and digitalise their grids, and new entrants must scale frontier technologies quickly. For investors, the transition defines where trillions in capital will flow, and for policymakers, it represents the single most important lever for meeting climate goals.

M&A sits at the intersection: it is the fastest way to pivot portfolios, access technologies, and recycle capital. Without it, the transition cannot proceed at the pace demanded.

Context: A Dual-Track Energy System

The global energy system today is characterised by transition overlaying inertia. While renewables delivered nearly 80% of new power capacity in 2023, fossil fuels still account for 82% of primary energy supply (IEA, 2023). This duality is what makes M&A so active:

- Hydrocarbon players use deals to consolidate profitable legacy positions (e.g., ExxonMobil–Pioneer, \$60bn, 2023) while ringfencing cash to fund transition growth (PwC, 2025).
- Utilities are rotating portfolios, divesting thermal assets and acquiring renewables platforms (Bain, 2025).
- Infrastructure investors are recycling capital from stabilised assets (e.g., operating wind farms) into early-stage pipelines (DLA Piper, 2025).



This creates a fluid ownership landscape, where fossil-heavy assets migrate to yield-focused investors, and growth assets are consolidated by players with patient capital and low costs of capital.

Subsector Impacts

Offshore wind

Offshore wind epitomises both the promise and the strain of the transition. It has become a core decarbonisation technology in Europe, the US, and Asia, but rising supply chain costs and high interest rates have undermined economics. In 2023–24, developers including Ørsted and Vattenfall cancelled or delayed US projects due to unviable bid economics (McKinsey, 2025).

M&A response: operational portfolios are still commanding premiums, while early-stage pipelines have been repriced. Pension funds and infrastructure investors are absorbing completed projects, while developers recycle capital into new builds (PwC, 2025).

Energy storage

Storage has emerged as the bright spot of the transition. Installed US capacity reached 32GW by 2024 (FTI, 2025), with M&A activity surging. Deals include Google/TPG Rise's \$20bn strategic partnership with Intersect Power to support data centre demand with renewables + storage. Energy Vault and other players are scaling storage tailored to hyperscalers.

M&A response: valuations of storage developers are rising due to clearer revenue models and IRA incentives. Strategic partnerships between tech companies and infrastructure funds are accelerating deployment.

Hydrogen and CCUS

Hydrogen and carbon capture remain pre-commercial but strategically vital. EU and US incentives (e.g., EU Hydrogen Bank, US IRA 45V tax credit) have spurred dealmaking, often in the form of joint ventures rather than outright acquisitions. Investors see hydrogen as a call option on hard-to-abate sectors (steel, shipping, aviation).

M&A response: expect growing partnerships, particularly in Europe and the Middle East, where sovereign-backed entities (e.g., ADNOC, NEOM) are scaling green hydrogen platforms.



Nuclear

Once marginal, nuclear has been re-framed as critical to energy security and net zero. Hyperscaler demand for baseload power has driven renewed interest in Gen IV and small modular reactors (SMRs). In 2024, hyperscalers like Microsoft and Google made first-risk capital commitments to nuclear projects (FTI, 2025).

M&A response: still early-stage, but Brookfield/Cameco's acquisition of Westinghouse (\$7.9bn) demonstrates institutional investor appetite for nuclear as part of net-zero strategies (McKinsey, 2025).

Critical minerals

Lithium, cobalt, and copper are the new "strategic reserves." China dominates processing capacity, controlling c.70% of lithium refining. Western companies and governments are using M&A to secure stakes in mines and refineries across Africa, Latin America, and Australia (TLT, 2025).

M&A response: mining deals are increasingly framed not as resource grabs but as transition enablers, with EV supply chains driving demand visibility. Expect growing public-private partnerships.

Policy and Regulation as Catalysts

Policy remains the ultimate determinant of transition M&A flows:

- United States: the IRA created a generational investment boom, with transferable tax credits lowering the cost of capital. However, the Trump administration's early 2025 reversals on offshore wind and EV incentives have created policy volatility (FTI, 2025).
- European Union: the Green Deal and REPowerEU plans continue to channel investment, though permitting bottlenecks constrain delivery.
- China: remains the global renewables manufacturing hub, shaping cost curves across solar, wind, and batteries.
- Middle East: sovereigns are investing aggressively in renewables and hydrogen, using M&A to diversify economies (DLA Piper, 2025).

M&A implications: policy shifts can collapse or catalyse markets overnight. Investors prize regulatory certainty; where it is lacking, valuations are discounted, and activity skews toward operating assets.



Investor behaviour and valuation dynamics

The transition has created a valuation bifurcation:

- Operating, contracted renewables portfolios trade at premiums (12–18x EBITDA) due to predictable cashflows.
- Early-stage pipelines and platform deals have been repriced downward as cost of capital rises and policy uncertainty mounts (PwC, 2025).
- Storage developers and grid enablers are seeing valuation expansion given clear growth trajectories.
- Hydrogen and nuclear remain “optionality” plays, with valuations driven more by policy signals than cashflows.

Financing structures are also evolving: hybrid tax equity, private credit, and sovereign wealth co-investments are increasingly common (DLA Piper, 2025).

Implications for M&A

1. Portfolio rotation will intensify: oil majors and utilities will accelerate sales of mature fossil assets to fund transition technologies.
2. Private capital dominance: infrastructure funds and sovereign wealth will remain central to scaling renewables and storage.
3. Cross-sector convergence: expect more partnerships between tech (hyperscalers), energy incumbents, and investors.
4. Heightened policy risk: dealmaking will increasingly depend on regulatory stability — making Europe and the Middle East safer bets than the US in the near term.
5. Technology arbitrage: M&A will be used to secure optionality in nascent technologies (hydrogen, SMRs) where organic growth is too risky.

Why this matters

Energy transition M&A is system-shaping. Each deal reallocates capital between hydrocarbons and clean energy, shifts control of strategic technologies, and ultimately determines whether global climate goals remain within reach. For dealmakers, transition-driven M&A is both a financial opportunity and a climate imperative: the arena where balance sheets, geopolitics, and the future of the planet converge.



Capital Availability

Why It Matters

Energy and utilities are among the most capital-hungry industries in the world. Unlike software, which can scale with minimal upfront cost, EUR projects require billions before the first unit of output is delivered. An offshore wind farm may take 5–7 years of development and require over \$2bn in upfront capex; a nuclear plant may exceed \$20bn. Access to affordable financing determines not only whether projects are built, but also who owns them.

Capital is therefore the currency of transition. Where it is abundant and cheap, deals flourish and projects scale; where it is constrained, projects stall and M&A slows. As Bain (2025) notes, “in energy, balance sheet strength is strategy.”

Historical and Structural Context

- Low-rate era (2010–2021): Renewables flourished under cheap debt. European offshore wind auctions in this period saw record-low strike prices, supported by pension funds’ willingness to accept 5–6% unlevered IRRs.
- Post-2022 shift: Inflation and interest rate hikes raised financing costs by 200–300 bps, undermining projects with thin margins. Ørsted’s cancellation of US offshore wind projects was emblematic of this pressure.
- Today (2024–25): Capital is bifurcated. Large-scale infrastructure funds and sovereign wealth vehicles remain well-capitalised and opportunistic. Smaller developers, reliant on project finance and bank debt, are squeezed.

Financing Structures In Play



- Tax equity and transferability (US): The Inflation Reduction Act introduced transferability of tax credits, creating a new secondary market for financing renewables (FTI, 2025). This has broadened the investor base beyond traditional tax equity banks.
- Private credit: As banks retrench, private credit funds (Apollo, Blackstone Credit, Brookfield Private Credit) have stepped in with mezzanine financing, hybrid debt-equity products, and construction financing.
- Sovereign-backed funds: Middle Eastern players (Mubadala, ADQ, PIF) are deploying oil windfalls into transition assets. Their long-term, non-mark-to-market capital allows them to buy at scale and weather volatility.
- Capital recycling: Utilities and developers increasingly sell minority stakes in stabilised projects to free balance sheet capacity for new development.

Deal Examples

- Brookfield Renewable Partners (2023): Raised \$15bn for its second Global Transition Fund, targeting large-scale renewable acquisitions.
- Constellation Energy–Calpine (2025, \$16.4bn): Mix of cash and equity financing demonstrates continued access to capital for scale energy deals.
- Masdar’s offshore wind JV acquisitions (2024): Funded via sovereign-backed equity, highlighting the Gulf’s role as transition financier.

Implications

- Capital will drive consolidation. Smaller developers unable to finance projects will be acquired by larger players with cheaper capital.
- Private credit as a new backbone. Flexible credit structures will increasingly underpin M&A where traditional project finance is unavailable.
- Geopolitical ownership shifts. Sovereign wealth funds will own an increasing share of strategic Western renewables.
- Market bifurcation. Contracted operating portfolios remain highly sought after; early-stage assets are repriced or stranded without policy support.



Technology and Innovation

Why It Matters

Unlike hydrocarbons, where extraction technologies have stabilised, the energy transition is technology-led and innovation-dependent. Energy storage, advanced nuclear, hydrogen, carbon capture, and digital grid technologies are not only enablers but also investable asset classes in their own right.

M&A is the mechanism by which:

- Utilities and oil majors acquire frontier technologies rather than risk internal R&D.
- Tech companies (hyperscalers, industrials) secure energy security.
- Private capital monetises early-stage innovation by selling to strategics.

The EUR innovation cycle is faster and broader than past waves. Each breakthrough has potential to alter valuations, reshape portfolios, and open new sub-industries.

Context and Subsector Analysis

Energy storage

- Role: stabilises intermittent renewables, underpins data centre reliability.
- Economics: Battery pack costs fell 90% since 2010; IRA incentives now ensure bankability of large-scale storage.
- M&A: Developers like Fluence and Energy Vault have seen strategic investment from private equity and tech majors.

Hydrogen & CCUS

- Role: decarbonises hard-to-abate sectors.
- Economics: Currently uneconomic without subsidies, but EU's Hydrogen Bank and US 45V tax credit are catalysing projects.
- M&A: Deals are largely joint ventures (e.g., Shell, TotalEnergies, and Linde co-investing in green hydrogen clusters).



Nuclear

- Role: provides zero-carbon baseload.
- Trend: Gen IV reactors and SMRs are drawing early-stage investment, particularly from hyperscalers with growing baseload needs.
- M&A: Brookfield/Cameco's \$7.9bn acquisition of Westinghouse (2022) gave institutional investors direct exposure to nuclear IP.

Digitalisation

- Role: smart grids, predictive analytics, and AI-driven demand response are essential to integrate renewables.
- M&A: Siemens, Schneider, and Hitachi are acquiring digital energy management platforms to expand their offerings.

Critical minerals

- Role: lithium, cobalt, nickel, and copper are bottlenecks for EVs, batteries, and grids.
- M&A: China dominates refining capacity; Western firms are using acquisitions in Africa and Latin America to secure supply.

Examples

- Google & TPG Rise-Intersect Power (\$20bn, 2024): landmark hyperscaler-led deal to secure renewables + storage.
- Shell-sonnen (2019): residential storage acquisition to enhance distributed energy offerings.
- Equinor-Scatec JV (2023): hydrogen-focused acquisition to expand clean fuels pipeline.

Implications

1. Innovation is now an M&A driver, not just an output. Corporate strategies hinge on acquiring innovation to remain competitive.
2. Cross-sector convergence is accelerating. Tech giants are now among the largest buyers of clean energy innovation.



- Valuations reflect optionality, not cashflows. Hydrogen and SMRs are priced on policy-driven futures.
- Strategic positioning for supply chains. Deals in minerals and upstream resources are as much about securing inputs as profit.



Regulatory and Policy Environment

Why It Matters

Energy is a policy-shaped industry. Regulation determines not only returns, but whether projects exist at all. Unlike most sectors, where regulation is about compliance, in EUR it is the primary enabler of investment. Subsidies, carbon pricing, and permitting frameworks can create billion-dollar markets overnight; policy reversals can strand assets.

For M&A, policy is not background noise but the core variable in valuation

Context and Analysis

- Feed-in tariffs (2000s): Germany's Energiewende created the modern solar PV industry.
- Auctions and subsidies (2010s): Competitive bidding systems scaled wind and solar, lowering costs globally.
- Net zero pledges (2020s): Regulatory frameworks shifted from subsidies to mandates, e.g., EV sales bans, renewable capacity targets.
- 2025 divergence: The Trump administration's rollback of federal support for offshore wind and EVs demonstrates the fragility of policy-driven markets (FTI, 2025).

Regional Contrasts

- United States: The IRA (2022) remains the largest single policy catalyst for M&A, creating transferable credits. However, 2025 reversals create volatility and favour nuclear and gas.



- European Union: Green Deal and REPowerEU continue to anchor M&A, though permitting bottlenecks are constraining growth.
- China: dominates supply chains due to long-term state industrial policy. Its cost leadership underpins global solar and battery economics.
- Middle East: state-led initiatives (Masdar, ACWA Power, NEOM) channel sovereign capital into global renewables, positioning the region as both financier and developer.
- Emerging markets: policy uncertainty and currency risks lower valuations despite strong growth demand.

Examples

- US offshore wind cancellations (Ørsted, Vattenfall, 2023–24): policy instability and macro shifts destroyed project economics.
- EU permitting reform (2024): designed to halve approval timelines, directly increasing deal appetite.
- India's record-low solar tariffs: policy-led auctions triggered a wave of consolidation among developers.

Implications

- Valuations are policy-contingent. Operating assets with fixed subsidies trade at premiums; pre-policy assets struggle.
- Regional divergence is widening. Policy volatility in the US contrasts with policy certainty in Europe, China, and the Middle East.
- Governments as market actors. States are both regulators and investors, increasingly using strategic ownership to secure energy independence.
- Deal strategy must integrate policy due diligence. Investors are pricing in not only current regulation but also political risk.

Why This Matters



For dealmakers, policy is not external – it is central. Every energy deal is a bet on a regulatory regime’s durability. The winners will be those who can navigate policy risk, arbitrage between jurisdictions, and align deal structures with subsidy frameworks.



IPO & Exit Environment

Why It Matters

In Energy, Utilities & Renewables (EUR), exits are the oxygen that keeps capital recycling. Offshore wind farms, storage portfolios, LNG terminals, and grid upgrades all require massive upfront cash. If sponsors can't monetise mature assets via IPOs, trade sales, or secondary stakes, they can't re-deploy into new build. A credible exit route lowers the weighted average cost of capital (WACC), raises development velocity, and ultimately determines how fast the transition scales (PwC, 2025; Bain, 2025).

How Exit Markets Really Work (Mechanics You Can Underwrite)

- Two equity stories dominate public markets:
 - a. Yield platforms (contracted renewables, regulated utilities) sold on dividend yield vs. 10-year and CAFD (cash available for distribution).
 - b. Growth platforms (developers, IPPs with pipelines) sold on NAV growth (MW additions, secured PPAs, interconnection progress).
- What floats, what doesn't (today):
 - Floatable now: portfolios with $\geq 70-90\%$ contracted revenue, long-tenor PPAs/FiTs, low merchant exposure, clear reinvestment discipline.
 - Challenging: merchant-heavy storage, early-stage hydrogen/CCUS, offshore wind pipelines without indexed CfDs, anything dependent on volatile policy.
- Valuation yardsticks at IPO:
 - Yield platforms: dividend yield (spread to 10-yr) + EV/EBITDA on contracted cashflows.
 - Growth platforms: P/NAV, P/Sales (where EBITDA not yet stabilised), pipeline "secured MW" with haircut.



- Bankability tells: DSCR and P90/P50 energy outputs; degradation assumptions; curtailment history; counterparty credit (utility vs. corporate PPA); O&M escalation clauses; grid connection risk; derivative usage (hedges, collars).

Where We Are In The Cycle (2019–2025)

- YieldCo 2.0 & SPAC era (2020–2021): low rates → frothy multiples; many listings priced on “growth stories”.
- Reset (2022–2024): rates up, supply chain inflation → de-rating of listed clean tech; IPO window narrows; M&A becomes the default exit (McKinsey, 2025).
- Re-opener (H2 2025?): selective for contracted, profitable platforms; frontier tech likely remains private longer (DLA Piper, 2025; TLT, 2025).

Alternatives to IPO (And When to Prefer Them)

- Trade sale to strategics (utilities, O&G majors) for integration synergies and lower cost-of-capital buyers.
- Secondary sales to infra/SWFs for long-dated, inflation-linked yield.
- Minority stake sell-downs / carve-outs (retain control, unlock cash).
- Stapled debt & vendor financing to smooth execution; earn-outs where merchant tail/repower risk remains.
- AssetCo / HoldCo splits to isolate leverage and improve index eligibility.

Add image here – Figure 19: Sponsor capital recycling model: development → partial sell-down → reinvestment (case flow). Source: Bain (2025) / DLA Piper (2025)

Case Archetypes You Can Copy

- Contracted Renewables Yield IPO: 2–3GW operating, 12–15-year weighted PPA tenor, 3.5–5.5% dividend yield at IPO; follow-on funded by drop-downs from sponsor.



- Developer Growth Sale (Trade): platform with 8–12GW secured pipeline sells to utility seeking pipeline + dev team; value on NAV with risk haircuts, stapled dev services.
- Secondary Portfolio Rotation: stabilised offshore wind/solar farm minority sold to pension/SWF at c. 10–15x EBITDA; sponsor redeploys into new build.

Implications for Dealmakers

- M&A remains the dominant exit until rate cuts and visibility reopen IPO windows more broadly.
- Structure for certainty: maximise contracted revenues and indexation; staple long-tenor debt; consider tax equity/transferability (US) to unlock buyers (FTI, 2025).
- Right venue, right index: LSE/Frankfurt for European yield stories; NYSE/Nasdaq for scale and liquidity; consider free-float and index inclusion early.
- Governance & ESG: credible net-zero plan, supply-chain transparency, and board oversight reduce discount rates (PwC, 2025; DLA Piper, 2025).



Regional Dynamics

Why It Matters

EUR returns are hyper-local. The same 500MW of solar can price at different multiples in Texas vs. Spain vs. India, purely due to policy stability, interconnection queues, FX, and offtaker credit. Regional nuance – and the direction of capital flows between regions – is now a core edge in M&A (McKinsey, 2025; Bain, 2025).

United States

What's happening. IRA supercharged tax equity/transferability; AI/data centres are a step-change in power demand; early-2025 policy reversals created uncertainty for offshore wind/EVs while nuclear and gas look relatively advantaged (FTI, 2025).

Why now. Deep capital markets; abundant private credit; huge interconnection queues; merchant exposure manageable with hedges/virtual PPAs.

Risks. Policy volatility; community permitting; supply chain tariffs; CFIUS for certain foreign buyers.

M&A lens. Storage and flexible generation trade at premiums; platform buys in transmission-constrained ISOs; increasing hyperscaler partnerships (renewables + storage + behind-the-meter).

Canada

Stable policy, hydro-rich provinces, attractive for long-tenor contracted renewables; interties to US Northeast/Midwest create cross-border optionality; First Nations participation increasingly central in approvals (PwC, 2025).



Europe (EU/UK/Nordics)

What's happening. REPowerEU; large grid capex; offshore wind core but repriced; permitting reform is the unlock.

UK: CfD regime remains bankable; REMA/market design debate a watch-item; offshore wind rebids post-AR5 reset.

Nordics: low-cost hydro/wind, attractive PPA market; increasing data-centre co-location.

Risks. Permitting timelines; cost inflation; EU state-aid fragmentation; UK/EEA FDI screening.

M&A lens. Operating offshore wind minority stakes to pensions/SWFs; utilities buying developers for pipeline; TSO/DSO stakes priced off RAB.

Add image here – Figure 22: Europe: offshore wind deal value & rebid impact (2023–2024). Source: McKinsey (2025) / PwC (2025)

Middle East (GCC)

What's happening. Sovereigns (PIF, Mubadala, ADQ) are globalising transition capital; NEOM & hydrogen mega-projects; ACWA/Masdar scaling internationally.

Why now. Surplus hydrocarbon cash, industrial policy to diversify; world-class offtaker credit; low LCoE solar.

Risks. Execution capacity; developer concentration; geopolitics.

M&A lens. JVs with sovereigns; platform sales (Europe/Asia) to GCC capital; green molecules (ammonia) supply chains.

China

What's happening. Dominant manufacturing base in solar, wind, batteries; domestic consolidation; outbound M&A constrained by geopolitics.

Risks. Foreign ownership limits; data/cyber security reviews; export controls.

M&A lens. Best accessed via supply contracts/JVs rather than control deals; strong angle is equipment + finance packages for third countries (IEA, 2023; Bain, 2025).



India

What's happening. Gigawatt-scale auctions; rapidly expanding grid; major corporate players (Adani, Reliance, Tata).

Risks. Tariff uncertainty, DISCOM offtaker credit, FX; import dependence for modules.

M&A lens. Platform consolidation; scale developers preferred; blended finance/DFC/MDB support often critical (TLT, 2025).

Latin America (Brazil, Chile, Mexico)

Brazil/Chile: deep renewables resources; sophisticated corporate PPA markets; transmission bottlenecks.

Mexico: policy tightness; limited private investment windows.

M&A lens. European utilities/infra funds acquiring operating portfolios; FX hedging and offtaker diligence crucial (PwC, 2025).

Sub-Saharan Africa

What's happening. High demand growth; grid deficits; mini-grids/IPP opportunities.

Risks. Currency convertibility; sovereign risk; offtaker arrears.

M&A lens. Blended finance (DFIs, guarantees), political risk insurance; focus on C&I solar, captive power, and strategic minerals (TLT, 2025).

Australia & ASEAN

Australia: coal exit + REZs (renewable energy zones); strong pension capital base; transmission the bottleneck.

ASEAN: Vietnam, Indonesia, Philippines opening; local-content rules; gas-for-transition strategies.

M&A lens. Grid-adjacent platforms (storage, firming), rooftop/C&I solar roll-ups; strategic LNG.



Cross-Border Rules That Now Decide Deals

- Investment screening: CFIUS (US), UK NSI Act, EU FDI screening – heightened for grids, ports, gas storage, and critical minerals.
- Sanctions/export controls: Russia-related; advanced tech restrictions.
- Local content & jobs: Brazil, India, ASEAN – impacts equipment sourcing and delivery schedules.
- Offtaker credit frameworks: EU (utility balance sheets), LatAm C&I, Africa sovereign guarantees/DFI wraps.

Practical Playbook (Regional)

- Price the policy. Model PPA indexation, curtailment, and permitting as explicit downside cases.
- Own FX risk. Layer natural hedges (local debt), collars/swaps, and CAFD buffers.
- Partner locally. Sovereign/DFI co-investment → lower WACC + smoother approvals.
- Sequenced capital. Start with operating minority stakes; scale into platform control once risk is learned.
- Screen for security laws early. Pre-clear sensitive assets (grids, LNG, storage) with counsel.



03

**Subsector
Deep Dive**

Oil & Gas (O&G)

What This Subsector Actually Is

Oil & Gas (O&G) is the backbone of the global energy system, supplying fuels for transport, feedstock for petrochemicals, and heat and power for industries and households. The sector is conventionally broken into three major segments – upstream, midstream, and downstream – each with distinct physical processes, cost drivers, and revenue models.

Upstream: finding and producing hydrocarbons

This stage covers exploration and production (E&P). Companies acquire rights to prospective acreage, conduct geological surveys (seismic imaging, geophysical mapping), and drill exploratory wells.

- Exploration: 3D seismic surveys and well logs are used to identify reservoirs. In offshore and shale plays, advanced imaging and horizontal drilling are critical.
- Drilling & completions (D&C): Once a prospect is confirmed, wells are drilled and completed using casing, cement, and hydraulic fracturing (in shale). The goal is to establish a flow path for hydrocarbons to surface.
- Production: Oil and gas flow is brought to the surface through artificial lift (pumps, gas lift). Over time, reservoirs decline, requiring new wells to maintain output.
- Shale dynamic: Unlike conventional reservoirs with long plateaus, shale wells decline rapidly – often 60–70% in the first year – so producers must continuously drill to sustain production (Bain, 2025).
- Revenue engine: depends on the price × volume of hydrocarbons produced. Costs include D&C capex, lifting costs, gathering and processing fees, and royalties to mineral owners.
- Key metric: Reserves and inventory life. Companies track proved (1P) and proved + probable (2P) reserves, as well as the number of years of high-quality drilling locations at current activity levels (McKinsey, 2025).



Illustration: In August 2025, Crescent Energy announced a \$3.1bn acquisition of Vital Energy, a shale-focused operator with positions in the Permian and Eagle Ford. The deal was explicitly about upstream inventory – creating one of the largest independents with over a decade of high-quality drilling locations and more efficient pad-scale development

Midstream: moving, processing, and storing hydrocarbons

Once hydrocarbons are produced, they must be transported, processed, and stored before being sold.

- Pipelines: Crude oil and natural gas are moved via large-diameter pipelines. Capacity and connectivity determine market access and influence local price differentials (basis).
- Gas processing plants: Natural gas is separated into methane (sales gas) and natural gas liquids (NGLs: ethane, propane, butane).
- LNG (liquefied natural gas): Gas is cooled to -162°C to shrink its volume by $\sim 600\times$, allowing it to be shipped overseas. Liquefaction facilities are capital intensive, but enable global trade flows (McKinsey, 2025).
- Storage & terminals: Facilities smooth supply-demand imbalances and support export/import. For example, Cushing (Oklahoma) is a critical crude storage hub.
- Revenue model: Midstream firms typically earn fee-based income through long-term contracts, reducing exposure to commodity prices. Minimum volume commitments ensure stable cash flow even in downturns (McKinsey, 2025).

Illustration: In August 2025, Harvest Midstream acquired \$1bn of MPLX pipeline and processing assets, adding 1,500 miles of gas pipelines across the Rockies. The deal underscores how midstream buyers pursue strategic footprints to guarantee flow assurance and secure fee-based revenues in volatile markets.

Downstream: refining and petrochemicals

Hydrocarbons are transformed into usable products for consumers and industries.

- Refining: Crude oil is distilled into fractions (gasoline, diesel, jet fuel, heating oil). Refiners optimise their crude slate (type of crude processed) against product slate (end-product demand).
- Profitability hinges on the crack spread – the margin between crude input cost and product output value.
- Efficiency, energy use, and compliance with fuel specifications (e.g., low sulphur diesel rules) drive competitiveness.



- Petrochemicals: Gas and liquids (ethane, naphtha) are converted into building blocks like ethylene, propylene, and aromatics. These underpin plastics, resins, and industrial chemicals.
- Demand drivers: industrial growth, transport demand, packaging, and consumer goods.
- Revenue model: Downstream margins fluctuate with global product balances and regional demand cycles (Bain, 2025).

Illustration: In August 2025, Cenovus Energy acquired MEG Energy for C\$7.9bn, consolidating Canadian oil sands upgrading and refining capacity. By combining adjacent thermal operations, Cenovus can optimise steam generation and downstream integration, driving lower per-barrel costs and more resilient margins.

Why Deals Happen (Through The Operational Lens)

Understanding the physical mechanics of O&G helps explain M&A activity:

- Reserves replacement. Because shale wells decline quickly and exploration is risky, buying reserves and proven acreage is often more efficient than discovering them organically. → Example: Crescent-Vital (2025) extended high-quality Permian inventory.
- Infrastructure synergies. Consolidating acreage creates contiguous blocks that lower drilling costs and reduce surface footprint. Integration with pipelines and LNG facilities ensures reliable market access. → Example: Cenovus-MEG (2025) unlocked contiguous oil sands steam cycles, reducing per-unit costs.
- Operational resilience. Larger portfolios smooth production declines, provide optionality across basins, and reduce exposure to local bottlenecks.
- Carbon profile management. Assets differ widely in carbon intensity – flaring, methane leakage, and water handling can make some barrels far “cleaner” than others. Acquirers use M&A to rebalance towards advantaged, lower-emission resources (DLA Piper, 2025).

Why Now (Structural and Technical Drivers)



- Finite Tier-1 shale inventory. The most productive acreage is scarce and irreplaceable. Consolidation secures long-life, low-breakeven drilling opportunities (Bain, 2025).
- Capital discipline era. Investors reward stable cash returns, not volume growth. Bigger operators can modulate drilling, hedge effectively, and still deliver dividends/buybacks (McKinsey, 2025).
- Energy transition alignment. O&G companies are under pressure to reduce Scope 1/2 emissions and prepare for a lower-carbon future. Acquiring assets with lower methane intensity or access to CCUS hubs is now a priority (DLA Piper, 2025).

Example: The proposed \$30bn bid by ADNOC (via XRG) for Santos (2025) is driven by LNG strategy. Santos's Australian LNG assets give ADNOC direct exposure to Asia-Pacific gas demand while positioning it in a lower-carbon segment of the hydrocarbon chain.

Risks Inherent In The Physical System

- Commodity volatility. Oil and gas prices are cyclical and globally linked, impacting revenues directly.
- Decline rates. Shale's rapid decline forces continuous reinvestment. Overestimating productivity is a key M&A risk.
- Infrastructure bottlenecks. Limited takeaway capacity can trap supply and widen basis differentials.
- Decommissioning. Old wells and facilities carry long-term retirement obligations (plugging, abandonment).
- Policy environment. Stricter methane rules, flaring bans, and FDI screening of energy infrastructure increasingly shape investment outcomes. (McKinsey, 2025; DLA Piper, 2025)

So What? (Implications)

- Bigger = stronger. Companies with integrated portfolios (secure upstream reserves + midstream access + downstream outlets) enjoy structural cost and resilience advantages.
- Gas and LNG are ascendant. Assets tied to LNG export routes, with lower methane emissions, will be more durable in a transition context.



- Carbon intensity matters. M&A is no longer only about volumes – it is about the quality of the barrel, measured by emissions and long-term cost curves.
- Regulatory timelines are critical. As environmental and antitrust scrutiny rises, successful deals will require operationally grounded justifications, not just financial ones.



Power and Utilities

How This Subsector Actually Works

Power & Utilities (P&U) is the backbone of modern economies, ensuring the transmission, distribution, and supply of electricity. Unlike Oil & Gas, which is heavily commodity-driven, P&U combines regulated monopoly infrastructure with competitive generation markets.

Regulated networks (TSOs/DSOs)

- What they are: Transmission System Operators (TSOs) and Distribution System Operators (DSOs) own and operate high-voltage transmission lines and low-voltage distribution grids – essentially the “wires.”
- Revenue model: Regulators allow a fixed return on the Regulated Asset Base (RAB). The RAB is the book of grid assets (lines, substations, smart meters) that earns a formula-based return, updated periodically for inflation, new capex, and depreciation.
- Cash flow quality: Highly predictable, with revenues de-linked from power prices.
- Analogy: More like a toll road concession than a commodity business.

Illustration: In July 2025, National Grid sold a 40% minority stake in its UK electricity distribution business to a Canadian pension consortium for £9bn, recycling capital while still retaining operational control. This highlights how regulated assets are routinely used to fund expansion via partial sell-downs.

Generation (IPPs / GenCos)

- What they are: Independent Power Producers (IPPs) and generation companies (GenCos) own power plants across technologies – gas, coal, nuclear, hydro, wind, solar.
- Revenue models:
 - Contracts-for-difference (CfDs) / Power Purchase Agreements (PPAs): Long-term contracts guaranteeing fixed or floor pricing.



- Merchant sales: Plants sell into wholesale power markets; revenues fluctuate with demand, fuel prices, and grid constraints.
- Operational nuance: Renewables (wind/solar) are intermittent; nuclear and hydro provide baseload; gas turbines are flexible “firming” units.

Illustration: In May 2025, EnBW sold a 49% stake in its offshore wind portfolio to Brookfield for €4.5bn. This deal illustrates how utilities recycle capital: monetising contracted renewables (de-risked assets) to reinvest in new build capacity.

Retail / supply

- What it is: Retailers buy power wholesale and sell to end customers (households, SMEs, corporates).
- Revenue model: Margin comes from the spread between wholesale costs and retail tariffs, plus ancillary services (efficiency products, green tariffs, demand-side management).
- Risk exposure: Highly competitive; retail arms are often pressured by government caps or interventions during crises.

Why Deals Happen (Through the Operational Lens)

- Capital recycling. Utilities face unprecedented investment needs (networks, renewables, storage). Selling minority stakes in regulated grids or operating renewables frees up balance sheets.
- → Example: National Grid (2025) stake sale to pension funds.
- Scale in renewables. Bigger platforms achieve cost savings in procurement, construction, and financing – especially critical as supply chains tighten.
- → Example: EnBW–Brookfield (2025) offshore wind monetisation.
- Balancing portfolios. Buyers seek diversified exposure: regulated assets for stability + contracted renewables for growth + optional merchant upside.
- Digital & flexibility push. Acquiring software platforms (smart meters, DERMS, VPPs) to manage distributed energy resources (Bain, 2025).

Why Now (What’s Different In 2025)



- Load shock from AI/data centres. Hyperscalers are adding multi-GW of always-on demand at key grid nodes, requiring urgent new transmission, flexible generation, and large-scale storage (FTI, 2025).
- → Example: Duke Energy announced in 2025 a \$2bn grid upgrade in Virginia and North Carolina to service Microsoft and Amazon hyperscale campuses.
- Electrification super-cycle. Mass EV rollout, heat pumps, and green industrial demand (steel, hydrogen) are driving record capex in networks. Utilities are increasingly using partial sell-downs to fund this (PwC, 2025).
- Digital grid operations. Smart meters, distributed energy resource management systems (DERMS), and virtual power plants (VPPs) turn customers into flexible grid assets. Utilities are buying software providers to integrate these (Bain, 2025).
- → Example: Iberdrola acquired German smart-meter platform Discovery in 2025 to accelerate digitalisation of its retail and distribution arms.

What Confuses People (Quick Explainers)

- RAB ≠ book equity. The Regulated Asset Base is regulator-defined, not the same as accounting equity. Allowed returns are applied to RAB, not market cap.
- Merchant tail risk. A 15-year PPA on a 30-year wind farm leaves a 15-year “merchant tail” exposed to market pricing. Unless a credible re-contracting plan exists, buyers discount this tail.
- Curtailment vs. congestion.
 - Curtailment: ordered to stop generating due to oversupply.
 - Congestion: grid bottleneck causes local negative prices. Both cut realised revenue even if capacity factors look healthy.

Risks to Underwrite

- Rate & politics. Tariff caps, windfall taxes, and retail interventions (as seen in Europe 2022–23) remain live risks.
- Permitting & interconnection queues. Delays of 5–7 years for transmission or renewable projects are common.



- Interest rate sensitivity. Bond-proxy assets (regulated grids, renewables under PPAs) lose value when yields rise.
- Execution risk. Delays in grid buildout or construction overruns can derail contracted returns. (PwC, 2025; FTI, 2025)

So What? (Implications)

- Winners will control the grid expansion. Owning and building transmission, storage, and firming capacity (fast-ramp gas, long-duration storage, extended nuclear) will differentiate players.
- Utilities will keep recycling capital. Expect further sell-downs of minority stakes in regulated networks and renewables to pension and infrastructure funds (PwC, 2025).
- Strategic buyers will chase digital platforms. Expect convergence between utilities and tech players in VPPs, smart grids, and AI-enabled demand response (Bain, 2025).



Renewables (Solar, Wind, Storage & Hybrids)

How This Subsector Actually Works

Renewables differ from fossil-based generation because their fuel is free (sun, wind, water), but output is intermittent and tied to local resources. This shifts the business model away from commodity price exposure to one centred on contracting, interconnection, and system integration. The subsector has four main building blocks: developers, IPPs, storage, and hybrids.

Developers

- Role in the chain: Developers assemble the “ingredients” for a project – land rights or leases, environmental and construction permits, interconnection approvals, and offtake contracts (e.g., corporate PPA, utility PPA, or government-backed CfD).
- Development stages:
 - a. Early stage (site selection, permitting, grid studies).
 - b. NTP (Notice to Proceed): financing and EPC contracts secured.
 - c. COD (Commercial Operation Date): asset begins generating electricity.
- Sell-down model: Many developers do not retain projects long term. They sell down at NTP or COD to infrastructure funds, pensions, or IPPs to recycle capital into new projects.
- Value creation: Developers earn their returns by de-risking projects – navigating permitting, interconnection, and offtake contracting.

Illustration: In June 2025, Ørsted sold 50% of its Hornsea 3 offshore wind project to Allianz GI and Norges Bank Investment Management for £5.5bn, monetising its development value at NTP and redeploying capital into earlier-stage pipeline.

Independent Power Producers (IPPs)



- Role: IPPs (e.g., Brookfield Renewable, NextEra, RWE Renewables) own and operate projects over the long term. They are essentially yield vehicles.
- Revenue model: IPPs earn predictable cash flows from long-term PPAs/CfDs, often with utilities, governments, or investment-grade corporates.
- Portfolio logic: Diversification across geographies and technologies smooths variability in resource (wind/solar) and regulation.
- Investor base: Pension funds and sovereign wealth funds are natural investors given the stable, bond-like returns.

Illustration: In July 2025, Brookfield acquired 2 GW of operating Spanish solar plants from X-ELIO for €2.7bn, bolstering its IPP portfolio with fully contracted, near-COD assets.

Storage

- Why it matters: Wind and solar are variable; without storage, value is lost during oversupply periods (e.g., midday solar). Batteries and other storage technologies transform variable generation into dispatchable capacity.
- Technologies:
 - Lithium-ion dominates today, suited for 1–4 hour duration.
 - Long-duration storage (flow batteries, compressed air, pumped hydro) is emerging for >8 hours.
- Revenue streams:
 - Capacity payments: revenues for being available at peak times.
 - Energy arbitrage: buy cheap off-peak power, sell during price spikes.
 - Ancillary services: frequency regulation, voltage control.
- Grid role: Storage is now considered critical infrastructure, not a side product — helping stabilise renewable-heavy systems.

Illustration: In August 2025, NextEra Energy Resources acquired Plus Power's 1.5 GW U.S. battery portfolio for \$1.2bn, highlighting storage's centrality to grid stability and corporate demand.

Hybrids

- Definition: Co-location or integration of renewables + storage, often with gas or nuclear backup, to provide firm, 24/7 carbon-free energy.
- Customer demand: Driven by hyperscalers (Google, Amazon, Microsoft) moving from annual REC matching to hourly-matched clean energy contracts.



- Advantages:
 - Reduces interconnection cost per MW.
 - Allows higher capacity factor by firming renewables.
 - Meets “24/7 clean” procurement standards for corporates.

Illustration: In 2025, EDF Renewables signed a 24/7 hybrid clean power PPA with Google in France, bundling wind, solar, and batteries into a single firm supply product.

[IMAGE – Figure 3.3-1: Renewables value chain showing developers (early-stage risk), IPPs (yield), storage (system integration), and hybrids (24/7 solutions).]

Why Deals Happen (Through The Operational Lens)

- Capital recycling. Developers need to free up balance sheets by selling NTP/COD assets. → Ørsted–Hornsea 3 sell-down (2025).
- Yield appetite. Infrastructure and pensions want contracted, operating renewables with bond-like returns. → Brookfield–X-ELIO (2025).
- Storage integration. Batteries are now standalone investment cases. → NextEra–Plus Power (2025).
- 24/7 clean products. Hybrids deliver premium PPAs to hyperscalers. → EDF–Google hybrid deal (2025).

Why Now (What’s Powering Deals In 2025)

- Policy scaffolding.
 - US IRA: transferable tax credits have broadened the buyer base beyond utilities to private equity and infra funds.
 - EU permitting reform: “one-stop shop” rules shorten timelines.
 - Corporate PPAs: indexed contracts reduce inflation exposure (FTI, 2025; DLA Piper, 2025).
- Data centre load. AI/data centres are demanding hourly firm power, not annual RECs – a structural driver of hybrids (FTI, 2025).
- Offshore wind repricing. Inflation and interest rates have reset valuations.



- Operating assets still trade at premiums.
- Pipelines (undeveloped) often sell at discounts.

Illustration: In April 2025, RWE sold a 30% stake in its German offshore pipeline to Macquarie GIG at a discount, reflecting new economics for early-stage offshore wind.

What Confuses People (Quick Explainers)

- P50 vs P90: P50 = “best estimate” of output; P90 = conservative estimate used for debt sizing.
- Interconnection queue ≠ connection: Queue positions don’t guarantee deliverability; curtailment risk means “paper MW” often get heavily discounted.
- Merchant tail & cannibalisation: Post-PPA years and over-concentration of solar at midday can crush prices (duck curve). Storage and hybrids mitigate this.

Risks to Underwrite

- Supply chain & trade: Tariffs, module concentration in China, weak supplier warranties.
- Permitting & biodiversity: Long timelines, especially offshore; need budgets for marine/environmental mitigation.
- Grid congestion: Must model node-level pricing and curtailment, not just hub pricing.
- Technology: Battery degradation and inverter failure risk long-term economics.

So What? (Implications)

- Shift to operating & late-stage assets. Buyers prize assets with secured grid access and contracted offtake.
- Storage is core. Deals like NextEra-Plus Power (2025) show batteries are no longer “ancillary” but central to investment theses.
- Hybrids = corporate future. Hyperscaler contracts (EDF-Google, 2025) set the trend for 24/7 clean energy demand.
- Offshore bifurcation. Operating assets clear fast at premiums, pipelines are repricing until supply chain and financing headwinds settle (McKinsey, 2025; FTI, 2025).



Mining & Critical Minerals

How This Subsector Actually Works

Mining is the physical and financial backbone of the energy transition. While often reduced to “digging holes,” the sector in reality is a complex value chain stretching from exploration through to refining and integration into end-use supply chains (batteries, EVs, grids, turbines).

It can be divided into four broad categories of players:

1. Critical minerals (transition enablers)

- What they are:
 - Lithium → lithium-ion batteries (carbonate/hydroxide processed into cathode material).
 - Nickel & cobalt → cathode chemistries in EV batteries (NMC, NCA).
 - Copper → wiring, motors, grids, EV charging infrastructure.
 - Rare earths (neodymium, dysprosium) → magnets for wind turbines, EV motors.
- Extraction & processing: These resources often occur in low concentrations, requiring intensive beneficiation and refining.
- Why critical: They are “irreplaceable” for electrification and renewable infrastructure – demand growth far outstrips new supply.

Deal illustration: In April 2025, Chile’s SQM merged its lithium assets with Codelco, creating a state-backed lithium giant to accelerate supply for global EV and battery producers. This highlights how nations are consolidating domestic control over critical minerals.

2. Traditional mining (legacy commodities)

- Commodities: Coal, iron ore, bauxite, gold.



- Revenue mechanics: Still lucrative, especially iron ore (steelmaking), but under mounting ESG pressure – investors and regulators push miners to reduce coal exposure.
- Portfolio role: Majors increasingly spin out or divest coal, while maintaining iron ore and copper due to enduring industrial demand.

Deal illustration: In June 2025, Glencore spun off its global thermal coal assets into a separate listed entity, freeing up its balance sheet and aligning with its copper and nickel transition metals strategy.

3. Integrated majors (BHP, Rio Tinto, Glencore)

- Business model: End-to-end control: exploration → mining → midstream refining → global trading.
- Advantage: Secures scale, capital, and marketing reach. Integrated trading arms provide market intelligence and pricing power.
- Cash engines: Iron ore and copper remain dominant revenue drivers, but majors are pivoting portfolios toward transition metals.

Deal illustration: In March 2025, Rio Tinto acquired Canada’s Greenstone Copper for \$1.6bn, adding high-grade copper reserves in a geopolitically “safe” jurisdiction under U.S.–Canada critical minerals partnerships.

4. Junior miners (early-stage explorers)

- Role: Small-cap companies holding exploration concessions and pursuing feasibility studies.
- Risk profile: Highly speculative – many juniors never reach production, but the most promising are acquired by majors or strategic investors once resources are proven.
- Funding: Equity markets, offtake-linked financing, or JV partnerships with majors.
- Exit logic: Provide pipeline assets for majors seeking to extend reserves.

Deal illustration: In July 2025, Stellantis invested \$200m in Australian junior Core Lithium, securing long-term spodumene offtake for its EV battery supply chain.

How Money Is Made



- Upstream: Selling raw ore or concentrates (e.g., spodumene from lithium mines, copper concentrate).
- Midstream (refining/processing): Value uplift comes from chemical conversion (e.g., lithium carbonate/hydroxide, nickel sulphate, cobalt sulphate).
- Downstream integration: Linking to cathode plants, battery gigafactories, or direct OEM supply chains yields highest margin capture.

Value example: Lithium mined as spodumene (\$600–800/tonne) can be refined into lithium hydroxide (\$15,000+/tonne equivalent), then further processed into cathode active material (~\$30,000+/tonne equivalent).

Why Deals Happen (Through the Operational Lens)

- Reserve access. Proven, high-grade reserves are scarce; M&A shortcuts exploration timelines. → Example: Rio–Greenstone Copper (2025).
- Vertical integration. Automakers/utilities move upstream to secure raw materials for EV and grid demand. → Example: Stellantis–Core Lithium (2025)
- Portfolio realignment. Majors are spinning out coal and doubling down on transition metals. → Example: Glencore coal spin-off (2025).
- Processing control. Acquiring refining capacity in safe jurisdictions reduces dependence on Chinese-dominated midstream.

Why Now (2025 Context)

- Energy transition metals boom. IEA projects lithium demand to rise 40× by 2040; copper shortages loom from 2027. Buying proven projects is faster than greenfield.
- Security of supply. Governments are subsidising “friend-shored” supply chains (U.S., EU, Japan) to diversify away from China (DLA Piper, 2025).
- Capital intensity. Large projects take 7–15 years and billions of dollars; consolidation helps derisk financing.
- Policy tailwinds. U.S. IRA and EU Critical Raw Materials Act provide tax credits, subsidies, and permitting fast-tracks.



Example: The SQM–Codelco lithium consolidation (2025) reflects both national policy alignment and foreign buyers’ desire for stable supply contracts.

What Confuses People (Quick Explainers)

- Resources vs. reserves. Resources are “in the ground” estimates; reserves are proven and economically recoverable. M&A premiums are tied to reserves.
- Grade vs. volume. A small, high-grade deposit can be worth more than a giant, low-grade one due to lower cost per tonne of processed metal.
- Upstream vs. midstream. Owning processing/refining capacity often creates more value than the raw mine, given China’s ~70% dominance in midstream lithium and cobalt refining.

Risks to Underwrite

- Geopolitical. Resource nationalism, export bans (e.g., Indonesia nickel), shifting royalty regimes (Chile lithium).
- Environmental & social license. Water use, tailings management, indigenous rights – key sources of reputational and operational risk.
- Commodity cycles. Lithium saw >70% price swings between 2021–23; volatility can upend project economics.
- Execution risk. Mine buildouts routinely run over budget and schedule (7–15 year lead times).

So What? (Implications)

- Vertical integration trend will accelerate. Automakers, utilities, and battery OEMs will keep buying upstream stakes to secure input supply.
- Jurisdictional safety premium. Assets in Canada and Australia will trade at a premium versus riskier jurisdictions.
- Midstream bottleneck. Control of refining/conversion outside China will be as critical as mining concessions.



- Consolidation clustering. Expect majors, state entities, and OEMs to acquire high-grade projects or form JVs to secure long-term supply (FTI, 2025; DLA Piper, 2025).



Energy Services & Technology

How This Subsector Actually Work

This subsector provides the “picks and shovels” that enable the global energy system – spanning oilfield services, renewable EPC/O&M, digital optimisation software, and emerging climate tech solutions. Unlike asset-heavy upstream or utilities, these businesses are often service- and technology-driven, making their economics more diverse.

1. Oilfield Services (OFS)

- Scope: Includes drilling contractors, well completions, seismic services, and equipment providers (Halliburton, Schlumberger, Baker Hughes).
- Revenue model: Service fees (per rig day, per frac stage), equipment margins (e.g., pumps, drill bits), and bundled integrated project management.
- Cycle exposure: Tied to upstream E&P spending – when oil prices are high, rig counts rise and OFS demand surges.
- Integration: Large players offer “full stack” (from subsurface to completions), smaller players often niche (pressure pumping, directional drilling).

Deal illustration: In February 2025, Patterson-UTI merged with Liberty Energy in a \$4.3bn deal, creating the largest U.S. pressure pumping and well services provider – consolidating to capture scale as shale activity recovered.

2. Renewables Services (EPC & O&M)

- EPC (Engineering, Procurement, Construction): Build wind and solar projects under fixed-price contracts.
 - High capex, low margin, project risk sits with contractor.
- O&M (Operations & Maintenance): Long-term service contracts to keep assets running.
 - Recurring, higher-margin, valued more by investors.



- Market structure: Highly fragmented – regional EPC firms, specialised turbine/blade O&M, solar inverter maintenance companies.
- Roll-up logic: Aggregating fragmented service providers can yield scale efficiencies and national/global reach.

Deal illustration: In May 2025, Quanta Services acquired German wind EPC firm Enercon Services for €1.2bn, marking U.S. expansion into Europe's fragmented renewable EPC/O&M market.

3. Technology Providers (digital & optimisation)

- Scope: Energy trading software, predictive maintenance (AI + IoT), demand-response platforms, DERMS (Distributed Energy Resource Management Systems).
- Revenue model: SaaS subscriptions, licensing fees, transaction-linked revenues.
- Value proposition: Optimise asset utilisation, reduce downtime, manage variable renewable generation, and unlock flexibility.
- Multiples: Attract higher valuations (20x+ EBITDA) given sticky, recurring revenues.

Deal illustration: In August 2025, Schneider Electric acquired U.S. start-up GridX for \$900m, a DERMS and AI grid optimisation software provider – cementing its role in digital grid orchestration.

4. Emerging Climate Tech

- Scope: Hydrogen electrolyzers, CCUS (carbon capture, utilisation, storage) technologies, MRV (measurement, reporting, verification) platforms, advanced batteries (solid-state, flow).
- Revenue models: Equipment sales, licensing, long-term service agreements.
- Risk profile: Often pre-commercial, backed by venture or strategic capital, with high technical and adoption risks.
- Strategic pull: Oil majors, utilities, and industrials invest to hedge long-term energy transition bets.

Deal illustration: In July 2025, Siemens Energy acquired UK hydrogen electrolyzer maker ITM Power for £1.1bn, integrating electrolyzer manufacturing into its portfolio to capture IRA- and EU-subsidy-driven hydrogen demand.

How Money Is Made



- OFS: Service contracts, day rates, equipment sales.
- Renewables services: EPC margins (low, one-off) vs. O&M margins (higher, recurring).
- Digital tech: SaaS licensing and platform fees, often scaling globally.
- Climate tech: Equipment margins, IP licensing, service/maintenance contracts.

Why Deals Happen (Through the Operational Lens)

- Scale efficiencies. Consolidating fragmented OFS or EPC players reduces unit costs and improves utilisation. → Example: Patterson–Liberty merger (2025).
- Recurring revenue focus. Investors favour O&M and SaaS business models for their predictable cash flows. → Example: Schneider–GridX (2025).
- Strategic diversification. Traditional service providers use M&A to expand into renewables or digital segments. → Example: Quanta–Enercon (2025).
- Climate tech bets. Utilities and OEMs acquire emerging tech to secure IP and position early for scaling. → Example: Siemens–ITM Power (2025).

Why Now (2025 Context)

- Oil & gas upcycle. Post-2022 price recovery drove a surge in drilling and completions activity; OFS players are consolidating to sustain margins in a cyclical rebound.
- Renewables boom. Massive capacity additions require EPC and O&M – fragmented providers are prime roll-up targets (TLT, 2025).
- Digitalisation wave. AI, IoT, predictive analytics, and DERMS platforms are essential to manage increasingly complex grids (McKinsey, 2025).
- Carbon services expansion. CCUS and MRV solutions are scaling under regulatory and corporate net-zero mandates.

Example: In 2025, ExxonMobil partnered with SLB (Schlumberger) to acquire a CCUS monitoring start-up, CeraCarbon, for \$500m, marking oil majors' entry into carbon services.



What Confuses People (Quick Explainers)

- EPC ≠ O&M. EPC is project-based, low-margin, and risk-heavy. O&M is recurring and higher-margin, hence valued more in M&A.
- Tech vs. services multiples. SaaS platforms (recurring revenue) can trade at >20x EBITDA, while cyclical OFS trades at 5–8x – a structural valuation gap.
- Climate tech readiness. Not all climate tech is commercial yet (fusion, long-duration hydrogen storage). Many acquisitions are strategic “options,” not immediate cash generators.

Risks to Underwrite

- Cyclical (OFS). Dependent on upstream oil/gas prices and rig counts.
- Execution risk (EPC). Large projects face frequent cost overruns and delays.
- Tech adoption. Risk of stranded investments in unscalable technologies.
- Policy dependency. Many climate tech models rely on subsidies (IRA, EU Green Deal).

So What? (Implications)

- Dual-track future. Expect OFS consolidation for efficiency and capital discipline, alongside high-multiple, growth-focused M&A in energy tech and climate solutions.
- Investors will bifurcate. Infra/pension funds will favour O&M and SaaS platforms (predictable cash), while strategics will take climate tech bets.
- Strategic convergence. Oil majors, utilities, and tech firms will increasingly collide in acquiring digital and climate service platforms.
- 2025 outlook: The subsector will see more “barbell M&A” – scale-driven OFS mergers on one end, and small but high-valuation climate/digital acquisitions on the other (TLT, 2025; McKinsey, 2025).



Energy Trading & Finance

How This Subsector Actually Works

This subsector represents the financial plumbing of global energy – the traders, financiers, and platforms that move molecules, electrons, and carbon credits, and manage risk around them. It sits at the intersection of physical commodities, financial hedging, and capital provision.

1. Physical commodity trading

- Scope: Crude oil, refined products, LNG cargoes, power flows, carbon allowances.
- Key players: Vitol, Trafigura, Glencore, Gunvor, and trading arms of majors (BP, Shell, TotalEnergies).
- Business model: Optimise global flows of energy by arbitraging time (storage), geography (transport), and quality (grades of crude/gas/coal).
- Revenue: Trading margins/spreads from sourcing and logistics optimisation.

Illustration: In May 2025, Vitol acquired a 30% stake in Italy's Adriatic LNG terminal from ExxonMobil for €1.2bn, securing physical LNG access to Europe's tight gas market while enhancing trading optionality.

2. Financial trading & hedging

- Scope: Futures, swaps, and options in oil, gas, power, and carbon.
- Who uses it: Producers, utilities, airlines, manufacturers, data centres – all hedge price exposure.
- Trader role: Market-makers who provide liquidity, arbitrage mispricings, and monetise volatility.
- Revenue: Trading profits, structuring fees, and optimisation margins.

3. Merchant power marketing & renewables aggregation

- Scope: Independent aggregators bundle renewable generation (solar, wind) and sell into wholesale markets.



- Role: Provide balancing, shape intermittent output into firm contracts, and secure offtake with corporates.
- Revenue: Optimisation spreads, balancing fees, and sometimes ownership stakes in assets.

Illustration: In June 2025, Shell Energy acquired U.S. aggregator MP2 Energy’s renewables portfolio for \$1bn, scaling its merchant power marketing footprint to serve data centres with firmed renewable supply.

4. Carbon markets & certificates

- Scope:
 - Compliance markets (EU ETS, UK ETS, California Cap-and-Trade).
 - Voluntary markets (RECs, offsets, credits for carbon removal).
- Revenue model: Buy/sell spreads, brokerage, verification services, and platforms for matching buyers/sellers.
- Integrity issue: Credit quality varies; scrutiny on “additionality” and permanence is rising.

Illustration: In April 2025, Nasdaq bought carbon registry platform VerraLink for \$500m, signalling mainstream financial exchanges’ entry into carbon credit infrastructure.

5. Project finance & private credit

- Scope: Debt and equity structuring for large-scale energy infrastructure (pipelines, LNG, renewables, storage, transmission).
- Shift: As banks face tighter Basel IV rules, infra funds and private credit providers are filling the financing gap.
- Revenue: Arrangement fees, lending spreads, equity returns.

Illustration: In August 2025, Blackstone Infrastructure launched a \$12bn private credit platform dedicated to renewable energy and grid projects, positioning itself as a non-bank lender to fill gaps left by traditional project finance banks.

How Money Is Made

- Traders: Capture arbitrage spreads in time, location, and grade.



- Financial desks: Monetise volatility through hedging and structuring fees.
- Aggregators: Optimise renewable output and sell at a premium via PPAs.
- Carbon players: Earn brokerage fees, spreads, and verification revenues.
- Financiers: Earn interest spreads, fees, and equity upside.

Why Deals Happen (Through the Operational Lens)

- Securing physical infrastructure. Traders buy into LNG terminals, pipelines, and storage to guarantee optionality. → Example: Vitol–Adriatic LNG stake (2025).
- Scaling merchant aggregation. Corporate buyers want firm renewable supply; aggregators need balance sheets and reach. → Example: Shell–MP2 renewables portfolio (2025).
- Owning carbon platforms. Exchanges and infra funds are moving into carbon credit registries and MRV platforms. → Example: Nasdaq–VerraLink (2025).
- Private credit entry. Lenders want direct exposure to transition infrastructure. → Example: Blackstone renewable private credit platform (2025).

Why Now (2025 context)

- Volatility since 2021. Ukraine war, LNG crunch, and extreme power prices created record trading profits (Vitol made >\$15bn net in 2022). Volatility remains structurally higher.
- Corporate hedging demand. Data centres, manufacturers, and hyperscalers need long-term price stability.
- Carbon markets surge. EU ETS prices remain >€90/t (2024–25), voluntary offsets are scaling despite scrutiny.
- Private credit boom. As banks de-risk, infra funds/private lenders are stepping into project finance (DLA Piper, 2025).

What Confuses People (Quick Explainers)



- Physical vs financial trading. Physical = actually moving cargoes/power. Financial = hedging and speculation on paper. Most majors do both.
- Mark-to-market volatility. Trading houses can earn billions in one year, then see much lower earnings next – not steady-state returns.
- Carbon credits ≠ guaranteed abatement. Quality varies; some credits lack permanence or additionality.

Risks to Underwrite

- Regulatory scrutiny. EU/US regulators are cracking down on perceived market abuse by commodity traders.
- Liquidity crunches. Margin calls during volatile periods (e.g., 2022 power markets) can strain balance sheets.
- Reputational risk. Carbon credit integrity under fire; accusations of “greenwashing” could undermine platforms.
- Counterparty risk. Defaults in volatile markets can cascade through financing structures.

So What? (Implications)

- Trading & finance remain profit pools – but volatile. Expect uneven returns tied to volatility cycles.
- M&A hotspots:
 - Renewables offtake aggregators – as corporate demand for firm 24/7 power rises.
 - Carbon platforms – consolidation around registries, MRV, and verification tech.
 - Private credit managers – infra funds building balance-sheet capabilities to rival trading houses.
- Strategic convergence. Infrastructure funds, private equity, traders, and utilities are beginning to resemble each other – blending trading, financing, and physical asset control.



04

**Conclusion
and Outlook
for H2 2025
and Beyond**

Outlook for H2 2025 and Beyond

Market Forecasts: Volumes, Values, and Momentum

Deal Volumes

- After a subdued 2023–24 due to higher rates and cost inflation, dealmakers are cautiously re-engaging. PwC (2025) and McKinsey (2025) both expect global EUR M&A volumes to rise 5–10% YoY into 2025, led by renewables, grid infrastructure, and critical minerals.
- Oil & Gas megadeals will continue (Exxon–Pioneer; Chevron–Hess) as majors consolidate inventory, but fewer players will dominate – creating “super-basins.”
- Power & Utilities activity will be driven by asset recycling and grid build-outs, with minority stake sales of regulated networks funding renewables growth.
- Renewables & storage will see more operating-asset transactions than pipeline trades, reflecting investor caution.

Deal Values

- Bain (2025) forecasts deal value growth outpacing volume growth: fewer but larger transactions, with platform acquisitions in renewables and critical minerals clearing at premium multiples.
- High-profile cross-border deals (e.g., Middle East sovereign funds in European grids, Japanese investors in US LNG) are expected to increase overall deal values in 2025.

Macro Forces Likely to Shape 2025–27

Interest Rates and Capital Costs

- Rate volatility remains the biggest swing factor. A slower-than-expected easing cycle will keep leveraged buyouts muted but favour strategic investors and sovereign funds with cheaper capital.
- Transferable tax credits (US IRA) and private credit will remain essential to financing renewables growth (FTI, 2025).



Geopolitics and Security of Supply

- Resource nationalism (Indonesia, Chile, Africa) could constrain critical minerals supply.
- Ongoing tensions in Eastern Europe and the Middle East could trigger volatility in oil, LNG, and power trading – making trading houses and merchant aggregators M&A targets (DLA Piper, 2025).

Technology and Infrastructure Bottlenecks

- Growth in AI/data-centre load creates urgency for grid upgrades, flexible gas, and nuclear – shaping dealmaking in both utilities and firming capacity.
- Storage M&A will accelerate, with co-located solar + storage portfolios commanding premiums.

Opportunities for Dealmakers

- Consolidation in Oil & Gas: Acquire inventory in advantaged basins, attach CCUS options, and recycle cash into transition assets.
- Grid Infrastructure: Invest in regulated T&D assets with inflation-linked cashflows; use minority sell-downs to free capital for renewables.
- Storage and Hybrids: Pursue storage developers and operating portfolios; co-locate with solar/wind to meet hyperscaler demand.
- Critical Minerals: Secure upstream stakes or offtake deals; derisk exposure through JV/refining integration.
- Digital & Services: Roll up fragmented O&M/EPC providers in renewables; acquire SaaS grid optimisation and carbon-tracking platforms.
- Trading & Finance: Buy aggregators/platforms that package renewable output into merchant and corporate PPA products.

Risks to Manage

- Policy reversals: Trump administration's reversal on offshore wind, EV mandates, and Paris Agreement (FTI, 2025) shows how fast frameworks can shift.
- Commodity price volatility: Oil, gas, and lithium cycles can swing valuations by double digits.
- Permitting & interconnection: Long delays can erode pipeline value; due diligence must focus on "time to cash."
- Carbon credibility: Deals in offsets/CCUS face reputational risk unless underpinned by robust standards.



Practical Playbook for Dealmakers

- Timing: Buy counter-cyclically – utilities when regulation depresses multiples, miners when commodity prices dip.
- Structuring: Use earn-outs, staged acquisitions, and milestone payments (e.g., NTP/CoD for renewables, permitting milestones for mines).
- Capital sourcing: Blend private credit, tax equity, and transferability markets with traditional project finance.
- Decarbonisation lens: Bake emissions intensity metrics into deal models; attach CCUS/hybrid power to hydrocarbons.
- Partnerships: Hyperscalers, sovereign wealth funds, and OEMs are emerging as non-traditional buyers/partners.

Conclusion

The Energy, Utilities and Renewables sector is undergoing one of the most significant structural transitions in its history. Across the value chain, M&A has emerged not only as a lever for growth, but as a necessity for resilience, capital recycling, and transition alignment.

In Oil & Gas, consolidation is being driven by finite shale inventory, cost discipline, and the need to rebalance carbon profiles. Power & Utilities face unprecedented grid expansion requirements, with capital-intensive networks prompting asset sell-downs and partnerships. Renewables are shifting towards operating assets, storage integration, and hybrid platforms as corporates demand 24/7 clean power. Mining and critical minerals highlight the scramble for secure, high-grade reserves and midstream refining capacity outside China. Services and infrastructure providers show a dual-track path – scale-driven OFS consolidation alongside high-multiple growth bets in digital and climate tech. Trading and financial infrastructure continues to deliver profit pools, albeit volatile, with carbon markets, renewable aggregation, and private credit emerging as the newest frontiers.

Across all subsectors, the common threads are clear: scale, integration, and credibility. Scale delivers cost and capital efficiency; integration across value chains derisks supply and enables premium products; and credibility – in emissions, carbon markets, and technology readiness – determines licence to operate. The deals of 2025 demonstrate that M&A is not simply opportunistic, but a strategic response to systemic change.



For dealmakers, the implication is straightforward: success will favour those who can anticipate structural bottlenecks – in reserves, grids, minerals, and carbon platforms – and deploy capital into assets that combine durability with transition alignment. The sector’s transformation is far from over, and M&A will remain the mechanism through which today’s incumbents and challengers secure tomorrow’s energy system.



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