

Repowering Stranded Sites

Converting Failed Industrial Assets into Digital Infrastructure

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Abstract

Failed factories, power stations, refineries, smelters, mines and logistics assets can leave behind large sites, grid infrastructure, transport access, water systems, industrial zoning and skilled labour. Those attributes can appear attractive to data-centre and digital-infrastructure developers facing scarce powered land and long connection queues. The conversion case is valuable only when the surviving rights and assets support a new service after environmental, technical, regulatory and commercial diligence.

This paper develops a decision and financing framework for converting stranded industrial sites into digital infrastructure. It separates legal rights from physical equipment, verifies the electricity interconnection as a new large-load proposition, tests land and building reuse, maps contamination and decommissioning obligations, assesses fibre, water, cooling and resilience, and integrates acquisition, remediation, conversion and digital-infrastructure capital into one model. It also considers community, workforce and tax consequences, staged site control, risk allocation and exit.

The evidence base includes United States Department of Energy work on repurposing retired energy assets, United States Environmental Protection Agency guidance on brownfield and Superfund redevelopment for artificial-intelligence data centres, Federal Energy Regulatory Commission work on co-located large loads, International Energy Agency analysis of grid queues, European Union industrial-site data and environmental assessment requirements, United Kingdom planning materials, Australian grid and industrial-load evidence, and United Arab Emirates energy-system and data-centre policy work. These sources show that legacy sites can retain useful infrastructure while requiring fresh approvals, studies and protections for a new use.

Six figures present the conversion boundary, site triage, power-rights waterfall, capital stack, value bridge and investment gate. Six tables provide a diligence file, reuse matrix, risk allocation, hypothetical conversion case, sensitivity matrix and 180-day execution plan. Every capacity, cost, schedule, utilisation, price and financial result in the worked example is a hypothetical management assumption created solely to demonstrate the method.

Land, environmental condition, utilities, grid access, planning, construction, water, telecommunications, cyber security, data regulation, decommissioning, tax, accounting, valuation, financing and investment decisions require current advice from qualified professionals in the relevant jurisdictions. This paper provides general information for professional audiences and does not provide legal, regulatory, environmental, engineering, tax, accounting, valuation, credit or investment advice.

JEL Classification: G31, G32, L86, Q40, Q51, R33

Keywords: brownfield redevelopment, industrial sites, data centres, grid interconnection, environmental remediation, digital infrastructure, project finance, adaptive reuse

1. Define the conversion boundary

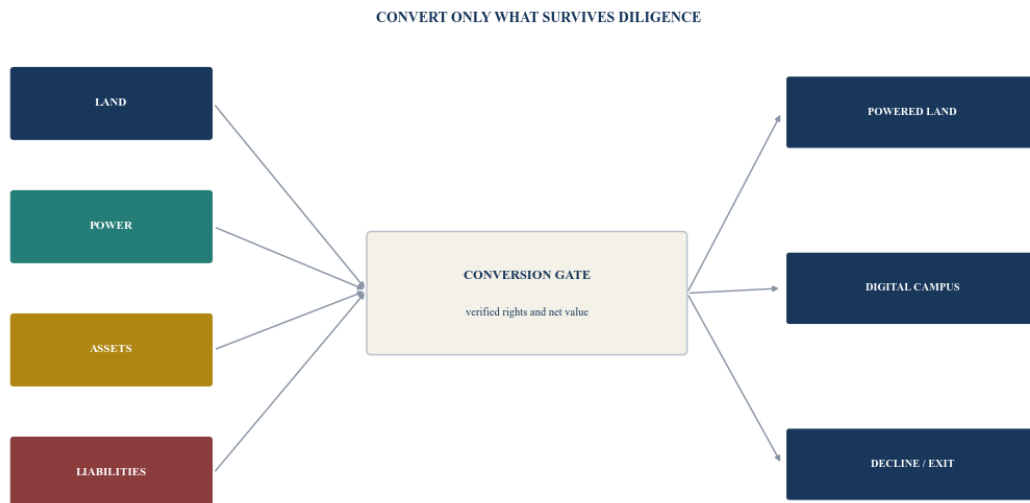
A stranded industrial site should be evaluated as a bundle of rights, obligations and physical systems. The address alone carries little value. The decision file should identify what the buyer can lawfully control, reuse, alter, connect, demolish and finance.

The conversion boundary includes land title and tenure, easements, grid connection, substations, generation, water, wastewater, buildings, roads, rail, fibre, hazardous materials, environmental permits, decommissioning duties, workforce arrangements and community commitments.

The target digital service should be equally precise. A wholesale data-centre campus, powered shell, colocation platform, sovereign compute facility or edge aggregation site has different power quality, latency, security, water, planning and customer requirements.

The initial comparison should include greenfield development and other brownfield sites. Conversion wins when verified schedule, connection, land or infrastructure advantages exceed remediation, adaptation, legacy and execution costs on a risk-adjusted basis.

Figure 1. Industrial-to-digital conversion boundary



Author framework. Legacy value must pass legal, technical and environmental verification.

2. Triage the site before exclusivity

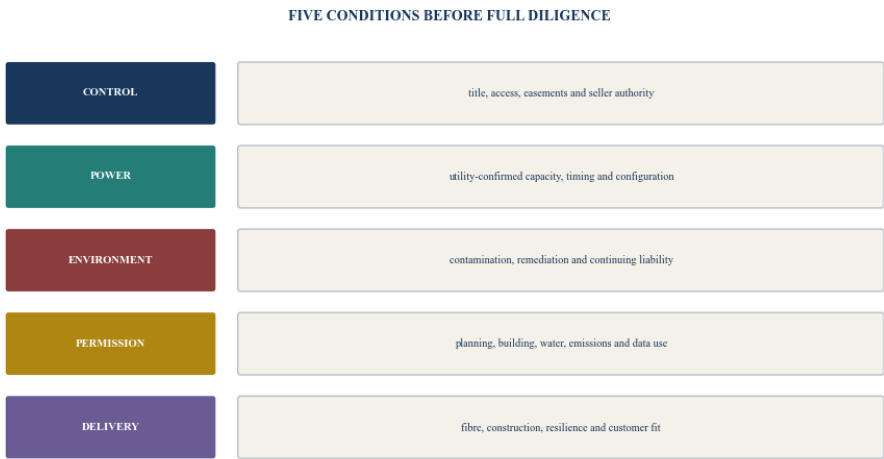
The first screen should identify fatal flaws before the buyer funds detailed design. Title defects, unavailable power, severe contamination, incompatible planning, flood exposure, insufficient fibre or unresolved decommissioning can defeat the concept.

The screen should use documentary evidence and site inspection. Seller statements about megawatts, permits or clean condition should remain unverified until the relevant authority, utility, registry or independent adviser confirms them.

Site history matters. Process diagrams, chemical inventories, fuel storage, waste disposal, underground tanks, asbestos, fire records and historic environmental reporting can direct intrusive investigations.

The screen should also identify alternatives. A partial land sale, powered-shell conversion, energy project, logistics use or staged mixed-use redevelopment may produce more value than a full data-centre campus.

Figure 2. Brownfield site triage



Author framework. A red condition can stop or restructure the acquisition.

3. Separate electricity history from a new connection right

Historic consumption or generation does not establish the power available to a new data centre. The interconnection agreement may have terminated, changed, been surrendered or applied to a different legal entity and operating profile.

The utility or system operator should confirm connection point, voltage, import and export capacity, firm or non-firm status, network reinforcement, fault level, protection, metering, power quality, ramp, outage, security deposits, tariff and delivery date.

Data-centre load differs from many industrial loads. It can be high, continuous and sensitive to interruption. Artificial-intelligence workloads can also change rapidly. The power study should model the proposed load rather than rely on the old site's peak demand.

The IEA reported in Electricity 2026 that more than 2,500 GW of renewable, large-load and storage projects were stalled in grid queues worldwide, and that new grid infrastructure can take materially longer than new data centres.[1] An existing connection can therefore have schedule value, subject to fresh technical and commercial confirmation.

4. Verify co-location and behind-the-meter arrangements

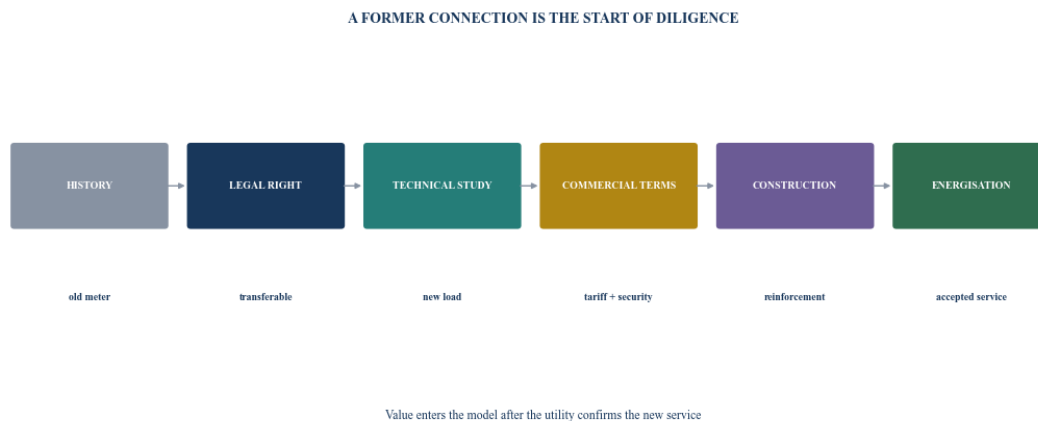
A legacy generator can create an apparent path to faster power. The proposed arrangement may still rely on the grid for balancing, backup, fault response and market settlement.

FERC's work on co-located large loads in PJM illustrates the need for transparent rules that protect reliability and consumers.[2] Its prior proceedings also show that existing interconnection arrangements can require amendment when a new large load changes the configuration.[3]

The project should distinguish direct generation, grid imports, exports, backup, island operation and transition states. Contract and modelling boundaries should align with the physical system.

Fuel, emissions, water, noise, planning and community impacts remain relevant when a retired or operating generator serves a digital load. Restarting an asset can require extensive licensing and capital, as illustrated by current US nuclear restart programmes.[4]

Figure 3. Power-rights verification waterfall



Author framework. Historic power creates value only after each condition is evidenced.

5. Establish the complete diligence file

The transaction file should combine property, environmental, power, technical, planning, commercial and financing evidence. Separate advisers should use consistent site boundaries and development assumptions.

The property file should include title, cadastral plans, access, easements, mortgages, leases, rights of way, utility corridors and restrictions. The seller's ownership of equipment and connection assets should be traced.

The environmental file should cover historic operations, permits, notices, spills, waste, soil, groundwater, asbestos, tanks, remediation, monitoring and closure. The power file should contain utility correspondence, studies, agreements, metering and system diagrams.

Table 1. Stranded-site conversion diligence file

File	Minimum content	Control	Decision use
Property	title, survey, access, easements, leases, security and restrictions	counsel and registry verification	legal control and financeability
Environment	site history, soil, groundwater, hazardous materials, permits and closure	qualified assessment and authority records	liability, remediation and schedule
Power	historic use, connection, study, capacity, tariff, deposits and reinforcement	direct utility or system-operator confirmation	power value and energisation date
Physical assets	buildings, substations, switchgear, generation, cooling, water and roads	condition survey, testing and ownership trace	reuse, repair, demolition or disposal
Planning	current use, zoning, change, EIA, building, noise, water and emissions	authority advice and planning counsel	permission path and conditions
Network	fibre routes, carriers, latency, diversity, meet points and repair	route survey and executable service offer	customer service and resilience
Commercial	market, customer, service, capacity, start, price and contract	customer evidence and technical acceptance	revenue and phasing
Finance	price, remediation, capex, tax, debt, reserves, contingency and exit	integrated model and independent review	risk-adjusted value and capital plan

Evidence should be current, attributable and reconciled to one site and development boundary.

6. Price contamination and continuing liability

Industrial land can contain soil and groundwater contamination, hazardous building materials, buried structures and regulated waste. Liability can attach to the current owner, operator, polluter or other parties depending on law and facts.

The United States EPA's 2026 guidance on redeveloping Superfund and brownfield sites as AI data centres describes site-screening and redevelopment considerations.[5] EPA programmes can support assessment, cleanup and reuse while the legal and technical requirements remain site-specific.

The acquisition case should distinguish known remediation, reasonably foreseeable remediation, monitoring, third-party claims and unknown conditions. Cost estimates need scope, quantities, disposal routes, inflation, schedule and contingency.

Indemnities have value only when enforceable against a creditworthy counterparty for a suitable term. Escrow, retention, insurance, price adjustment and seller completion can complement contractual protection.

7. Determine what can be reused

Existing assets should be classified as retain, adapt, replace or demolish. Book value and historic replacement cost are poor proxies for digital-infrastructure usefulness.

Buildings should be tested for floor loading, clear height, column grid, vibration, fire separation, water ingress, roof, security and future expansion. Substations and switchgear require ownership, rating, condition, protection, spares and compliance evidence.

Cooling and water systems designed for an industrial process can have different temperature, quality, redundancy and efficiency requirements. Roads, rail and heavy-lift access can support construction even when they have limited operating value.

Reuse value equals avoided new-build cost and schedule benefit, less adaptation, repair, testing, operating penalty, shorter life and risk. Demolition value should include waste classification, salvage and site restoration.

Table 2. Legacy-asset reuse matrix

Asset	Reuse evidence	Typical adaptation	Principal failure mode	Decision
Land and roads	title, survey, bearing capacity and access	grading, drainage, security and traffic	restriction, flood or insufficient expansion	retain, reconfigure or decline
Building shell	structure, dimensions, fire and water condition	envelope, floors, fire zones and security	adaptation exceeds new-build value	retain, partial reuse or demolish
Substation	ownership, rating, condition and utility acceptance	protection, transformers, redundancy and metering	obsolete equipment or unavailable import	reuse, augment or replace
Generation	licence, fuel, emissions, condition and grid role	overhaul, controls, emissions and new contracts	restart cost, permit or reliability	restart, reserve, replace or retire
Cooling and water	source, quality, capacity and condition	treatment, heat rejection and redundancy	scarcity, contamination or inefficient duty	reuse, hybridise or replace
Fibre and telecoms	route, ownership, capacity and diversity	new meet points and carrier entry	common route or weak market	retain and diversify
Workforce and workshops	skills, agreements, facilities and location	retraining, new procedures and security	mismatch or unresolved obligations	transition, supplement or exit

Each decision requires verified ownership, condition, compliance and fit with the target digital service.

8. Assess water, cooling and residual utilities

Water rights and historic supply should not be assumed to continue. The new use may face different tariffs, allocations, discharge standards and community scrutiny.

Cooling selection depends on climate, IT density, water availability, energy, noise, resilience and customer requirements. Existing cooling towers or process-water systems can require significant overhaul and treatment.

Wastewater, stormwater and contaminated drainage should remain separated. Construction can disturb historic contamination and change runoff.

The model should value utility corridors, treatment systems and storage only when their condition and regulatory use are confirmed. A stranded pipeline can create a liability rather than an asset.

9. Prove network and market location

Industrial sites can sit near transmission infrastructure and far from dense fibre and customer interconnection. A data-centre campus requires at least two physically diverse routes appropriate to its service.

Carrier maps should be verified by route survey and commercial offer. Multiple carriers can share one long-haul corridor or bridge. The design should identify the complete path to cloud on-ramps, internet exchanges and customer locations.

Latency should be measured to relevant demand centres. A power-rich remote site may fit batch compute, training or sovereign capacity and perform poorly for latency-sensitive colocation.

The revenue case should match the site. Customer letters, reservations and technical workshops are stronger than broad forecasts. Contracted requirements should inform phasing.

10. Build the planning and environmental path

Industrial use does not automatically permit data-centre use, generation, storage or new transmission. Change of use, building permits, environmental assessment, water, noise, air emissions, hazardous materials and traffic can require separate approvals.

The European Commission states that environmental impact assessment applies to specified major projects and can apply to other industrial or urban development based on national criteria and case-by-case screening.[6] The EU Industrial Emissions Portal also provides public information on industrial emissions and resource use that can support site-history diligence.[7]

UK planning materials for data-centre campuses illustrate how projects can combine on-site energy, future grid connection and substantial planning evidence.[8] Each planning decision is fact-specific and should not be treated as a precedent without qualified review.

The approval schedule should include surveys, consultation, design freeze, submission, information requests, appeals and conditions discharge. A theoretical fast-track has little value unless the project satisfies its eligibility and evidence requirements.

11. Incorporate community and workforce transition

A failed industrial asset can be an important employer and part of local identity. Digital infrastructure usually creates fewer operating jobs than a large factory or mine, even when construction employment is significant.

The redevelopment plan should describe jobs, skills, procurement, tax base, traffic, noise, energy, water, emissions and public access. Claims should be supported by a defined construction and operating model.

The US Department of Energy identifies workforce, transport and grid interconnection among the attributes of retired energy sites and provides public resources for reinvestment.[9] Its Energy Infrastructure Reinvestment programme also links qualifying investment to benefits such as grid capacity, reliability and workforce opportunity.[10]

Training, redeployment and community funding should enter project cost when committed. Early engagement can surface site history, environmental concerns and infrastructure needs that are absent from the seller's data room.

12. Benchmark retired energy-site conversion

The US Department of Energy lists data centres among potential reuse pathways for retired coal-plant sites, alongside generation, storage and manufacturing.[9] It also selected federal sites including a former gaseous-diffusion plant for proposed AI data-centre and energy development in 2025.[11]

These examples show why energy sites attract digital infrastructure: land, grid access, transport and industrial history. They do not establish automatic suitability or a universal financing model.

DOE's work on nuclear-powered data centres describes potential advantages of existing or restarted nuclear assets and identifies licensing, capital and schedule challenges.[12] A data-centre offtake can support generation, while the reactor and campus retain separate regulatory and operating systems.

The comparison should therefore distinguish powered land, co-location, behind-the-meter supply, grid-connected supply and generator restart. Each structure has different rights and risks.

13. Apply Gulf-specific diligence

The UAE Ministry of Energy and Infrastructure created a national team in 2025 to study data-centre energy demand, market conditions, geographic distribution and policy.[13] In July 2026, it inaugurated a national monitoring centre linking the four electricity utilities and reported approximately 48 GW of installed generation capacity.[14]

These national developments provide system context. They do not confirm power at any industrial site. The relevant utility must verify the specific connection and new load.

Gulf sites also require project-specific treatment of land tenure, industrial-zone authority, cooling climate, water, dust, fibre, emergency generation, emissions, data regulation and foreign ownership.

The conversion case should include the alternative use of the site and power. Industrial redevelopment, energy storage, renewable generation, logistics or a mixed campus can compete with data-centre use.

14. Design the conversion concept

The concept design should place new digital infrastructure around verified reusable assets and environmental constraints. It should preserve safe access to monitoring wells, remediation systems and retained industrial equipment.

Phasing can begin with a powered shell or first data hall while other areas are remediated, subject to safe separation and authority approval. Shared substations, cooling or water can create construction interfaces that require detailed sequencing.

The design should reserve future capacity only when land and power support it. A masterplan can display a large campus while the financial case funds a smaller first phase.

Resilience should cover utility outage, retained generation, backup, fuel, network, cooling, flood, dust, security and emergency access. Legacy systems should not become common-mode failures.

15. Build the complete capital stack

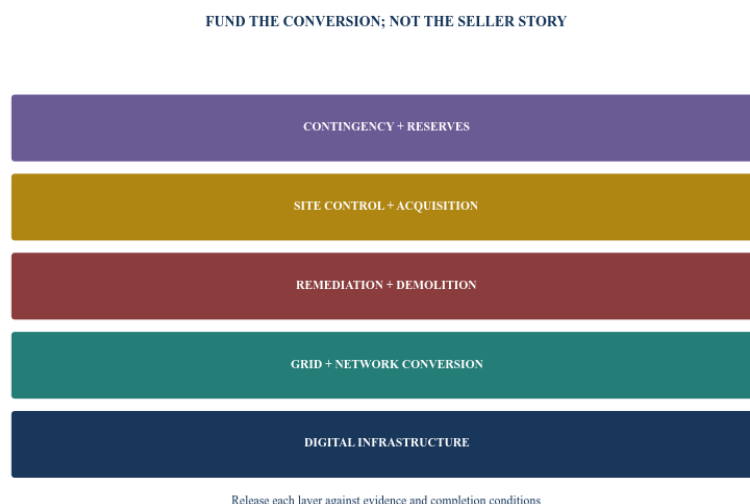
The capital model should separate site acquisition, seller liabilities, remediation, demolition, retained-asset repair, grid, generation, building, cooling, network, compute-ready infrastructure, financing and reserves.

Site price can be structured through an option, deposit, deferred payment, contingent value, seller note or earn-out linked to power and planning. The structure should match the risks the seller can influence and the evidence available.

Remediation capital may be funded by the seller, buyer, public programme or a ring-fenced vehicle. Lenders will examine liability, completion standards, authority acceptance and cost overrun.

Digital-infrastructure debt should rely on suitable site control, approvals, power, construction and customer evidence. Legacy assets with uncertain condition should receive limited collateral value.

Figure 4. Stranded-site conversion capital stack



Author framework. Acquisition, legacy and new-build capital should remain separately visible.

16. Allocate legacy and development risks

Risk should sit with the party able to understand, control or price it. The seller can provide history, access and representations. The buyer controls concept and development after completion. Utilities and contractors control defined delivery obligations under their agreements.

Unknown environmental conditions are difficult to transfer through a general indemnity. Targeted investigation, escrow, insurance and staged completion can improve protection.

Grid timing should follow the utility agreement. A seller warranty about capacity cannot replace a system-operator study. The acquisition can remain conditional on an acceptable offer.

Table 3. Conversion risk-allocation matrix

Risk	Evidence	Preferred control	Residual exposure
Historic contamination	records, assessments, sampling and authority file	seller remediation, indemnity, escrow and insurance	unknown condition, enforcement and counterparty credit
Title and access	registry, survey, leases and easements	completion condition, warranty and cure	third-party claim and boundary dispute
Grid capacity	utility study, offer and agreement	acceptable connection as condition precedent	reinforcement, delay, tariff and curtailment
Asset condition	inspection, test, maintenance and spares	price adjustment, warranty and contractor guarantee	latent defect and obsolescence
Planning	policy, pre-application, surveys and submission	long-stop, conditional acquisition and appeal strategy	authority discretion and third-party challenge
Construction interface	design, scope and condition survey	single-point coordination, contingency and testing	hidden condition and operational disruption
Customer demand	technical acceptance, reservation and contract	staged build, minimum payment and termination protection	ramp, concentration and technology change
Community commitments	consultation record and signed obligations	costed plan, governance and reporting	reputation, delay and additional mitigation

Allocation requires project-specific legal, technical, environmental and credit review.

17. Test a hypothetical 120 MW conversion

The following case demonstrates the method. Every value is a hypothetical management assumption. It does not describe an actual industrial site, connection, customer or investment result.

Assume a closed industrial complex has 75 hectares, an existing high-voltage substation, process-water infrastructure, heavy roads and two fibre corridors. The proposed digital campus targets 120 MW of critical IT capacity across three 40 MW phases.

Assume the utility confirms 60 MW of firm import after two years and a further 90 MW after network reinforcement in year five. The first phase therefore combines grid supply, on-site firm generation and storage under project-specific approvals.

Table 4. Hypothetical 120 MW industrial-site conversion

Item	Hypothetical management assumption
Site control and acquisition	USD 42 million
Environmental remediation and monitoring	USD 28 million
Demolition and retained-asset repair	USD 21 million
Grid, substation and utility reinforcement	USD 94 million
On-site energy and storage	USD 135 million
Data-centre shell and MEP for first 40 MW	USD 380 million
Network, security and campus infrastructure	USD 36 million
Development, finance, contingency and reserves	USD 104 million
Total phase-one conversion capital	USD 840 million
Reuse and schedule benefit versus hypothetical greenfield	USD 86 million
Residual legacy and conversion premium	USD 63 million
Stabilised contracted annual operating cash before debt service and tax	USD 91 million
Hypothetical unlevered cash yield on phase-one capital	10.8%

Every number is a hypothetical management assumption created solely to demonstrate the method.

The hypothetical reuse benefit comes from land, substation, roads, water corridors and earlier site access. Remediation, asset repair and interface risk offset much of that value.

The correct comparison includes time. An earlier first phase can create material present value when customer revenue is contracted. A schedule benefit should remain outside the base case until power, planning and construction evidence supports it.

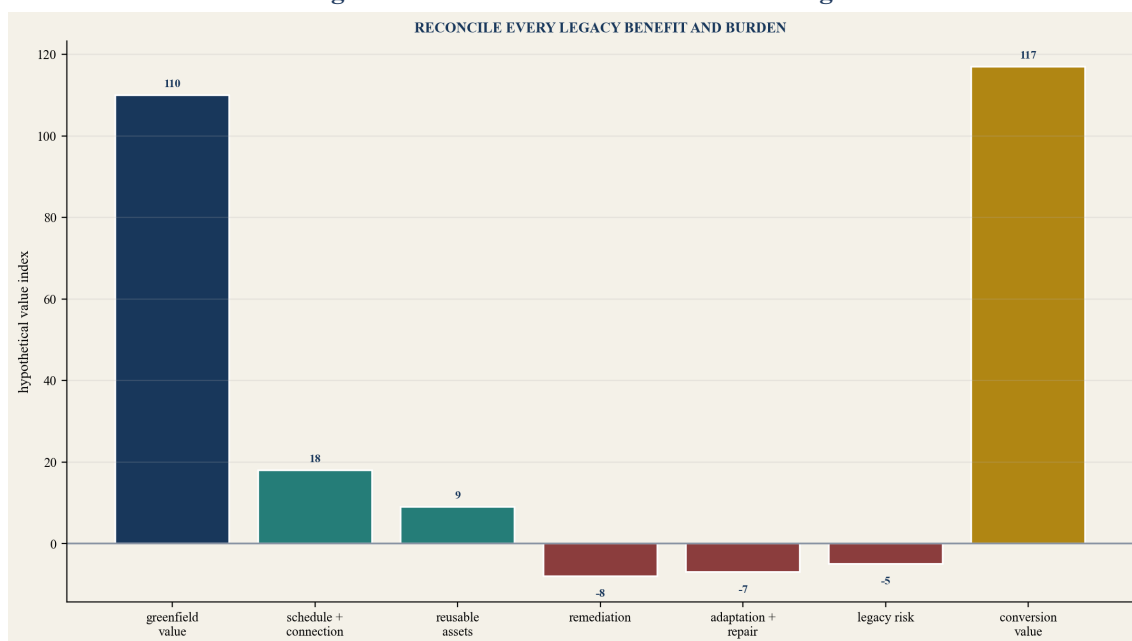
18. Reconcile conversion value

The buyer should begin with the value of an equivalent approved greenfield project and reconcile all site-specific differences. Positive items can include connection timing, reusable infrastructure, land and tax support. Negative items include remediation, demolition, adaptation, inefficiency, legacy obligations and reduced flexibility.

The value bridge should avoid double counting. A lower purchase price and a public remediation grant can reflect the same site problem. A schedule benefit and customer premium can also overlap.

Contingent consideration can share verified upside. The seller can receive an additional payment after connection or planning while the buyer avoids paying upfront for an uncertain claim.

Figure 5. Brownfield conversion value bridge



Hypothetical management values illustrate the method; they are not an actual valuation.

19. Stress power, remediation and demand together

Conversion risks can be correlated. Intrusive investigation can discover contamination where a new substation or data hall is planned. Redesign can delay utility works and customer acceptance.

Power delay should affect revenue, interest, contractor standby and customer remedies. Remediation overrun should affect construction access and contingency. A customer delay can weaken debt capacity while site carrying costs continue.

The model should change connected assumptions in one scenario rather than present isolated sensitivities only.

Table 5. Stranded-site conversion sensitivity matrix

Stress	Hypothetical management case	Financial transmission	Required response
Grid delay	first 60 MW slips 18 months	deferred revenue, capital carry and customer risk	long-stop, alternative phasing and utility milestones
Capacity reduction	firm import falls from 60 MW to 40 MW	smaller first phase and higher unit cost	modular design, storage and revised customer plan
Contamination expansion	remediation cost rises by USD 35 million	equity overrun and construction delay	investigation, escrow, insurance and contingency
Retained-asset failure	substation reuse is rejected	replacement capital and later energisation	early testing, parallel design and price adjustment
Planning condition	operating hours and noise controls tighten	added enclosure, generation limit and delay	acoustic study, design reserve and stakeholder plan
Customer deferral	anchor acceptance moves 12 months	lower debt capacity and idle assets	deposit, termination payment and staged procurement
Fibre constraint	diverse route arrives nine months late	service ineligibility and revenue delay	route works, alternate carrier and acceptance condition
Water restriction	planned evaporative cooling unavailable	higher power and redesign	air-cooled or hybrid option and revised energy model

Every scenario is a hypothetical management assumption and should be replaced with project-specific evidence.

20. Structure site control and acquisition

An option or conditional sale can provide investigation access while limiting purchase capital. The agreement should address entry, sampling, disturbance, confidentiality, restoration, insurance and ownership of studies.

Conditions precedent can include satisfactory title, environmental assessment, utility offer, planning path, customer approval, financing and investment committee decision. Long-stop dates should match the evidence schedule.

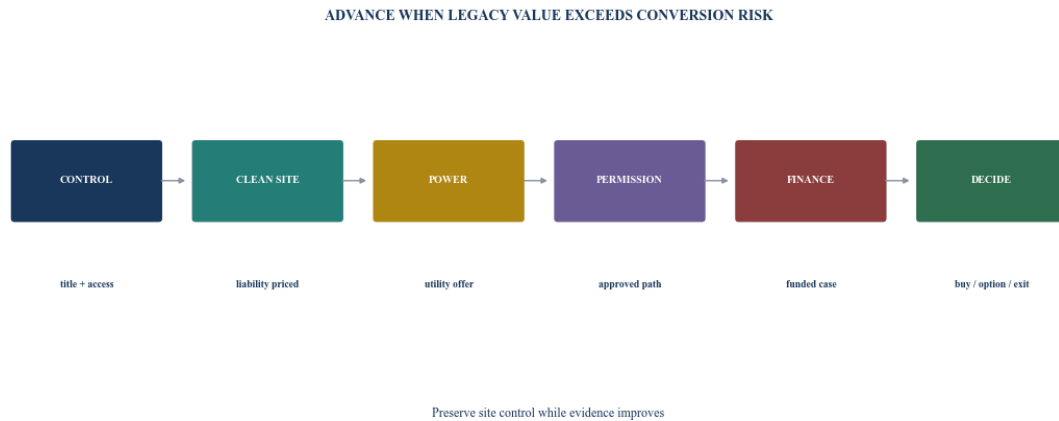
The buyer should control the ability to assign the site to the financing or project vehicle, subject to negotiated seller protections. Lender security and step-in rights need to be compatible with leases and industrial-zone rules.

Completion mechanics should separate assumed and retained liabilities. Post-completion access may be required for seller remediation or monitoring, with clear safety and operational interfaces.

21. Execute through 180 days

The conversion programme should move from fatal-flaw review through intrusive diligence, utility and authority engagement, concept design, market testing, financing and a gated acquisition decision.

Figure 6. Stranded-site investment gate



Author framework. Every gate requires approved evidence, ownership and a recorded decision.

Table 6. 180-day stranded-site execution plan

Days	Workstream	Principal output	Gate
1 to 15	fatal-flaw screen	control, power history, environment, planning, fibre and market	option or stop decision
16 to 40	site control and desktop diligence	access agreement, title, records, utility request and authority plan	diligence scope approved
41 to 75	intrusive and technical work	soil, groundwater, buildings, substation, water, cooling and network	liabilities and reusable assets defined
76 to 105	concept and market engagement	phased campus, power, resilience, contractor and customer evidence	preferred conversion concept selected
106 to 130	integrated model and contracts	price, remediation, capex, schedule, revenue, debt and risk allocation	conditional economics accepted
131 to 150	planning and utility path	submissions, studies, connection offer and long-lead requirements	permission and power path accepted
151 to 170	financing and transaction	facilities, equity, escrow, insurance, conditions and completion	fundable package established
171 to 180	investment decision	approved price, conditions, contingency, governance and exit	acquire, extend option or decline

Sequencing is indicative and should reflect site access, authority and utility timetables.

22. Set the investment decision

The committee should approve site boundary, target service, title, environmental allocation, retained assets, demolition, grid path, generation, water, fibre, planning, customer evidence, acquisition price, capital, financing, contingency and execution governance.

Conditions should cover utility confirmation, environmental scope, authority approvals, contractor pricing, customer acceptance, insurance, lender consent and seller protections.

The transaction should pause or reprice when historic power lacks a transferable path, remediation is open-ended, title or access is defective, reuse benefits are unsupported, planning depends on untested assumptions, fibre is weak or customer revenue cannot support the complete conversion cost.

An option can remain valuable when evidence is incomplete and a decision date is clear. The buyer should exit when additional diligence cannot resolve the principal uncertainty within the approved capital and timetable.

23. Limitations and conclusion

Site condition, environmental law, utility policy, grid capacity, planning, construction markets, technology, customer demand and capital markets can change. Decisions require current evidence from authorities, utilities, environmental specialists, engineers, planners, lawyers, customers, contractors, insurers and lenders.

The cited public programmes and regulatory materials describe their own jurisdictions and purposes. They do not establish that a specific industrial site is clean, powered, permitted, transferable or financeable.

Every numerical value and result in the worked case is a hypothetical management assumption. No actual site, connection, remediation programme, customer contract or investment result is represented.

Stranded industrial assets can shorten the path to digital infrastructure when land, grid, transport and existing systems survive verification. Their history can also carry contamination, obsolete equipment and non-transferable rights.

The investable conversion is the one that prices both sides. Controlled site access, direct utility evidence, intrusive environmental work, a phased digital design and risk-matched capital can transform genuine legacy advantages into a financeable new service.

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