

SOURCEENERGY TECHNOLOGIES

SourceEnergy Technologies Quantum Ready Energy Infrastructure Business Model

Commercialization and Operating Model

SET Q BM 001

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Executive sponsor	Dr. Oliver E. Jones
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Planning horizon	Thirty six months
Current operating posture	PQC_GOVERNED_NOT_YET_PQC_ENFORCED

Prepared for executive approval, partner diligence and controlled customer discovery

Executive Business Decision

SourceEnergy Technologies should commercialize Quantum Ready Energy Infrastructure as a gated portfolio of advisory services, implementation programs, field validation and recurring node assurance. The company should enter through paid readiness assessments, convert qualified customers into benchmarks or pilots, and build recurring revenue only after security, technical and commercial evidence supports production use.

SourceEnergy will own the energy problem, customer relationship, integration method, governed evidence and deployment standard. Quantum hardware, cloud and specialist partners will remain accountable for their own technology claims. This structure lets SourceEnergy lead the application and commercialization layer without representing itself as a qubit manufacturer.

The economic priority is to establish high margin assessment and benchmark revenue first, use paid pilots to finance learning, and convert validated sites into annual assurance subscriptions. Energy asset development, project finance and power sales remain separate businesses and are excluded from this model unless a later approved transaction combines them.

Business Model at a Glance

Business model element	SourceEnergy design
Customer segments	Utilities, grid operators, public agencies, energy developers, critical infrastructure owners, quantum vendors, laboratories and infrastructure investors
Value proposition	A governed path from quantum readiness through reproducible validation and safe energy deployment
Primary channel	Paid assessment followed by benchmark, pilot, migration and subscription expansion
Customer relationship	Executive sponsor relationship supported by technical delivery, evidence reviews and recurring assurance
Revenue streams	Assessments, design and implementation fees, benchmark engagements, field pilots, subscriptions, licensing and approved contingent participation
Key activities	Cryptographic discovery, grid problem definition, classical benchmarking, quantum or hybrid testing, field validation, integration and evidence governance
Key resources	SIOS, PQ-CGL, Quantum Ready Grid Node specification, benchmark contract, SourceCube integration patterns, energy domain expertise and partner network
Key partners	Utilities, cloud and quantum providers, universities, national laboratories, EPC firms, independent evaluators and approved capital providers
Cost structure	Specialist personnel, engineering, security, cloud and test environments, field equipment, insurance, legal, sales and partner delivery

Strategic Position

SourceEnergy's defensible position is the deployment layer between quantum science and energy infrastructure. Its planned portfolio of 5,000 substation communities, each associated with a 5 MW solar and battery opportunity, represents an internal problem and deployment pipeline of up to 25 GW if fully developed. These figures describe planned opportunity, not deployed capacity, contracted revenue or an approved market valuation.

SourceEnergy role	Owned responsibility		Boundary
Energy domain owner	Define operational problems, constraints, safety cases and customer value		Do not accept a vendor demonstration as operational evidence
Infrastructure integrator	Connect approved tools to data, digital twins, field systems and evidence records		Experimental outputs remain isolated from protective control
Validation authority	Freeze baselines, govern test conditions and commission independent review		No quantum advantage claim without reproducible comparison
Commercialization partner	Package qualified capabilities for customers and recurring operation		No binding offer or capital release without approval

Initial Market Focus

Priority	Customer	Initial problem	Entry offer
1	Utilities and grid operators	Cryptographic exposure, planning complexity and resilience	Readiness assessment and grid benchmark
2	Solar, storage and microgrid portfolios	Repeatable node design, interconnection and operating assurance	Portfolio assessment and node subscription
3	Public infrastructure and emergency systems	Continuity, timing, navigation and data integrity	Readiness assessment and sensing pilot
4	Quantum vendors and laboratories	Need for energy use cases, field access and independent evidence	Commercialization gateway
5	Infrastructure investors and insurers	Technical diligence and milestone verification	Independent readiness and evidence review

Commercial Offer Portfolio

The offer sequence begins with work that can be completed without production access or unsupported technology claims. Each subsequent offer requires the preceding evidence and a separate customer authorization.

Offer	Customer outcome	Proposed price range	Target gross margin	Release gate
Quantum Ready Infrastructure Assessment	CBOM, risk ranking, target architecture and migration roadmap	\$75,000 to \$200,000 per enterprise; portfolio work may add \$5,000 to \$15,000 per node	55 to 70 percent	Scope, data authority and evidence owner approved
PQC Migration Factory	Controlled design and implementation with interoperability and rollback evidence	\$250,000 to \$1.5 million per program plus approved third party costs	35 to 55 percent	Provider, security and change authority approved
Quantum Grid Benchmark	Equivalent classical and quantum or hybrid comparison for one decision problem	\$150,000 to \$400,000 per use case	45 to 65 percent	Problem, dataset, baseline and evaluator frozen
Quantum Sensing Pilot	Bounded field trial with conventional comparator, safety record and acceptance result	\$300,000 to \$1.25 million per field program plus hardware pass through	25 to 45 percent	Site, safety, data and field authority approved
Continuous Node Assurance	Recurring control evidence, readiness state, change monitoring and executive reporting	\$750 to \$2,000 per node per month plus an optional enterprise platform fee	75 to 85 percent	Node is registered and subscription scope is accepted
Quantum Commercialization Gateway	Technology diligence, validation plan, customer pathway and finance decision package	\$100,000 to \$300,000 plus one separately approved contingent participation mechanism	60 to 80 percent	IP, conflict, legal, claims and capital review complete

Pricing Rules

- Use fixed fees for bounded assessments and benchmark design when inputs and acceptance criteria are controlled.
- Use milestone billing for migration programs and sensing pilots. Customer deposits must cover committed external costs.
- Price hardware, cloud usage, travel and specialist subcontractors as disclosed pass through costs or under an approved markup policy.
- Require a paid change order when scope, data volume, test count, field conditions or authority requirements change.
- Do not exchange material work for publicity, speculative future revenue or unapproved equity.

Contract Structure

Contract document	Purpose	Commercial control
Master services agreement	Legal terms, confidentiality, liability, IP and dispute framework	Required before restricted data or field access
Statement of work	Scope, deliverables, dependencies, acceptance and pricing	Every deliverable has an owner and objective acceptance test
Benchmark charter	Problem, data, baselines, runs, evaluator and claim limits	Signed before results are observed
Data charter	Classification, lawful basis, access, retention and deletion	Minimum necessary data only
Pilot safety plan	Isolation, hazards, rollback, incidents and emergency authority	Required before field execution
Evidence and claims schedule	Permitted customer, partner and public representations	Marketing language cannot exceed recorded evidence

Revenue Architecture

Revenue expands through a controlled land and expand sequence. The assessment creates a verified inventory. A benchmark or pilot tests a specific opportunity. A migration or deployment program implements approved findings. Continuous assurance then monitors the resulting nodes and produces recurring revenue.

Stage	Commercial event	Revenue type	Conversion evidence
Discover	Executive workshop and scoped proposal	Non revenue or paid discovery	Named sponsor, problem and authority
Assess	Readiness assessment	Fixed professional services	Accepted inventory, risk ranking and roadmap
Validate	Benchmark or sensing pilot	Milestone professional services	Reproduced result and independent finding
Implement	Migration or integrated deployment	Project and integration revenue	Security, safety, rollback and customer acceptance
Assure	Continuous node assurance	Annual recurring revenue	Active nodes with current evidence obligations
Commercialize	Partner license or approved participation	License, royalty or contingent revenue	Customer adoption and approved economic terms

Unit Economic Model

All calculations exclude taxes, financing costs, energy sales, asset ownership returns and hardware pass through revenue unless the accounting policy requires gross presentation. A contract is attractive only when the expected gross profit covers acquisition, solution engineering, delivery risk and ongoing support.

Measure	Calculation	Management use
Annual contract value	Platform fee plus node count multiplied by monthly node fee and twelve, plus approved annual services	Compares recurring and project value
Gross margin	Revenue less direct personnel, cloud, hardware, travel and subcontract cost, divided by revenue	Controls price and delivery design
Contribution margin	Gross profit less customer specific sales, support and success costs	Determines whether an account should scale
Customer acquisition payback	Acquisition and solution engineering cost divided by first year contribution profit	Controls channel investment
Net revenue retention	Opening recurring revenue plus expansion less contraction and churn, divided by opening recurring revenue	Measures portfolio expansion
Revenue quality	Signed and accepted revenue divided by reported program value	Prevents pipeline and planned assets from being presented as sales

Illustrative Twenty Five Node Cohort

A representative 25 node customer may begin with a \$125,000 assessment, add a \$250,000 benchmark and a \$500,000 migration program, then subscribe at \$1,000 per node per month. If every gate passes, this produces \$875,000 of project revenue and \$300,000 of annual recurring revenue. This illustration is a pricing model, not a signed contract or budget.

Commercial Sensitivities

- Each additional 100 subscribed nodes at \$1,000 per month adds \$1.2 million of annualized revenue before any enterprise platform fee.
- A \$100 change in monthly price across 500 subscribed nodes changes annualized revenue by \$600,000.
- A single delayed \$750,000 migration or field program changes recognized annual revenue by the same amount unless replaced by another accepted engagement.
- The subscription mix is the principal gross margin lever; hardware intensive pilots should be priced for risk and treated as a path to validated recurring revenue.

Thirty Six Month Planning Case

The following base case is an arithmetic planning scenario. It is not a forecast, valuation, financing representation or management commitment. Revenue can be recognized only under the applicable accounting policy and signed customer terms.

Revenue driver	Year 1	Year 2	Year 3
Enterprise assessments	4 at \$125,000 equals \$0.50 million	10 at \$125,000 equals \$1.25 million	20 at \$125,000 equals \$2.50 million
Migration programs	1 at \$500,000 equals \$0.50 million	4 at \$750,000 equals \$3.00 million	8 at \$1.00 million equals \$8.00 million
Grid benchmarks	2 at \$250,000 equals \$0.50 million	8 at \$275,000 equals \$2.20 million	18 at \$300,000 equals \$5.40 million
Sensing pilots	1 at \$500,000 equals \$0.50 million	3 at \$650,000 equals \$1.95 million	6 at \$750,000 equals \$4.50 million
Recognized subscription revenue	\$0.15 million	\$1.05 million	\$3.90 million
Gateway and license revenue	\$0.00 million	\$0.30 million	\$1.50 million
Total modeled revenue	\$2.15 million	\$9.75 million	\$25.80 million
Planning gross margin	45 percent	52 percent	58 percent
Modeled gross profit	\$0.97 million	\$5.07 million	\$14.96 million

Operating Drivers

Driver	Year 1	Year 2	Year 3
Enterprise customers	4	10	20
Nodes assessed during year	50	250	750
Subscribed nodes at year end	25	150	500
Ending node subscription revenue	\$0.30 million	\$1.80 million	\$6.00 million
Core team planning range	8 to 12	18 to 28	35 to 55

Scenario Controls

- Do not count the 5,000 planned nodes as customers, subscriptions or contracted backlog.
- Do not include power purchase agreement revenue, project finance proceeds or asset values in quantum business revenue.
- Reforecast quarterly using signed contracts, accepted milestones, active node counts, direct delivery costs and cash collections.
- Do not assert break even until the board approves the hiring plan, overhead allocation, capitalization policy and revenue recognition treatment.

Sales and Distribution Model

Channel	Buyer	Commercial motion	Primary proof
Direct enterprise	CIO, CISO, grid planning, operations and resilience executives	Account based discovery followed by paid assessment	Accepted roadmap and executive sponsor
Portfolio channel	Solar, storage, microgrid and infrastructure portfolio owners	Master agreement with node rollout schedule	Repeatable node economics and control evidence
Public sector	Energy, emergency management and infrastructure agencies	Qualified teaming, grant or procurement route	Eligibility, scope, claims and procurement compliance
Technology partner	Quantum, cloud, sensing and security providers	Joint solution and controlled customer validation	Partner diligence and vendor neutral benchmark
Research channel	Universities and national laboratories	Sponsored research, testbed and technology transfer	IP, publication, export and data terms

Pipeline Qualification

Stage	Probability for planning	Required evidence
Identified	10 percent	Named organization and relevant infrastructure problem
Qualified	25 percent	Buyer, authority, timing and value hypothesis confirmed
Scoped	50 percent	Draft scope, data boundary, acceptance criteria and price
Commercial review	75 percent	Procurement, legal, security and budget path confirmed
Contracted	100 percent	Executed agreement and authorized start

Operating Model

SourceEnergy Technologies owns the customer contract and integrated delivery. SIOS maintains the governed evidence and state model. SETC controls technology intake and commercialization decisions. SourceEnergy Capital may evaluate financing only after technical and commercial gates pass.

Role	Accountability	Initial capacity model
Knowledge Governor and Executive Sponsor	Scope, governance rulings and reserved approvals	Dr. Oliver E. Jones
Program Director	Portfolio delivery, schedule, resources and gate preparation	Full time leadership appointment
SIOS Product and Data Owner	Schemas, evidence, permissions, product roadmap and release state	Product lead plus data engineering
Security and Cryptography Authority	CBOM, algorithms, providers, key boundaries, testing and incidents	Senior security lead with specialist support
Grid Engineering Lead	Energy problems, constraints, safety and classical baselines	Grid lead plus modeling resources
Field Validation Lead	Sites, sensing comparators, hazards, commissioning and evidence	Field lead supported by EPC partners
Commercialization Lead	Customers, partners, pricing, contracts and revenue operations	Enterprise seller plus solution engineering
Independent Evaluator	Reproduction, challenge and formal validation opinion	External and independent engagement
Capital Authority	Financing decision after approved commercial gate	Authorized SourceEnergy Capital officer

Delivery Capacity Rules

- Staff the reusable control plane, benchmark library and node assurance product internally.
- Use qualified partners for specialized quantum hardware, field instruments, cloud environments and local EPC execution.
- Do not accept a project when the accountable technical owner, evaluator or safe test environment is unavailable.
- Track utilization separately for billable delivery, product development, partner diligence and governance work.
- Standardize deliverables before scaling headcount; each engagement must reuse approved schemas, test contracts and acceptance evidence.

Technology Architecture for Revenue

Layer	Commercial function	Control requirement
SIOS evidence plane	Stores governed events, assessments, scores, decisions and outcomes	Append only records and role based access
PQ-CGL and QRI	Drives cryptographic inventory, readiness state and migration evidence	PQC_GOVERNED_NOT_YET_PQC_ENFORCED until gates pass
Quantum adapter	Provides vendor neutral problem and result interfaces	No direct operational actuator privilege

Layer	Commercial function	Control requirement
Benchmark library	Creates reusable energy problem definitions and comparisons	Frozen data, versions, costs and reproduction record
SourceCube and grid node	Connects approved site identity, telemetry and field evidence	Safety isolation, conventional fallback and human authority
Executive reporting	Supports renewal, risk and capital decisions	Claims reconcile to current evidence state

Partner and Intellectual Property Model

Party	Expected contribution	Economic structure	Rights and controls
SourceEnergy Technologies	Customer, use case, integration, field validation and deployment method	Prime contract, integration margin and subscription	Owns or licenses its platform, methods, derivative integration and governed evidence subject to customer rights
Quantum or cloud provider	Hardware, solver, runtime, support and provider evidence	License, usage, subcontract or referral economics	Retains provider technology; warrants only its documented capability
University or laboratory	Research, algorithms, facilities and independent evaluation	Sponsored research, milestone grant or license	Background IP, foreground IP and publication rights agreed before work
EPC and field partner	Site engineering, installation, commissioning and maintenance	Subcontract, regional delivery or approved revenue share	Safety, warranty, insurance and acceptance responsibility defined
Customer	Problem, authorized data, operational expertise and acceptance	Fees and approved reimbursable costs	Customer data and site rights remain protected under contract
SourceEnergy Capital	Approved project or growth capital after gates pass	Debt, equity or project finance under separate authorization	No investment inference from technical approval

Defensible Assets

- Quantum Ready Grid Node control specification and assurance state model.
- Vendor neutral energy benchmark contracts, datasets, baseline methods and verified results.
- Cryptographic discovery, migration and evidence workflows integrated with SIOS and PQ-CGL.
- Field validation protocols for sensing, timing, resilience and safe classical fallback.
- Customer relationships, deployment evidence and recurring node operating history.
- Commercialization methods that connect qualified technology, infrastructure delivery and gated capital.

Data and Evidence Rights

Every contract must distinguish customer data, SourceEnergy platform data, provider telemetry, jointly created benchmark results, anonymized aggregate measures and public claims. SourceEnergy should seek the right to retain nonidentifying methods, control evidence and aggregate performance statistics while honoring confidentiality, export, privacy and critical infrastructure restrictions.

Governance and Claims Discipline

Dimension	Business control	Evidence required
Fear of the Lord	Truthful representation and zero tolerance for unsupported capability or revenue claims	Claim to source mapping and signed decision
Presence of the Lord	Accountable human authority at material customer, safety, treasury and capital decisions	Named approver, scope, time and authority reference
Wisdom	Select customer problems with measurable value and a credible classical baseline	Use case score and opportunity cost review
Knowledge	Base pricing, performance and readiness on attributable evidence	Dataset, method, cost and result records
Understanding	Evaluate dependencies, integration burdens and failure modes	Architecture, hazard and economic review
Counsel	Require qualified independent challenge before material claims	Reproduction or external validation record
Might and Power	Release production authority and capital only after required gates pass	Authorized transition and bounded mandate

Nonnegotiable Boundaries

- Cryptographic validity does not create legal, fiduciary, regulatory, banking, custody or investment authority.
- Experimental quantum or hybrid outputs remain advisory and cannot directly operate protection, switching, treasury, custody, life safety or community critical systems.
- Private keys and restricted customer payloads cannot be stored in ordinary application, document, chat, ticket or source code systems.
- The current authoritative posture remains PQC_GOVERNED_NOT_YET_PQC_ENFORCED until provider, key, test and production approvals are evidenced.
- No public claim may combine planned nodes, potential gigawatts, pipeline, signed bookings, recognized revenue and deployed capacity.

Capital and Cash Model

The program should use customer funded discovery and pilots wherever possible. Corporate capital should fund reusable platform assets, governance, partner qualification and capacity that cannot be assigned to a customer. Every release remains subject to separate budget and authority approval.

Capital gate	Proposed envelope	Permitted purpose	Release evidence
Gate A	\$250,000 to \$500,000	Core appointments, product specification, legal templates, secure sandbox design and first customer development	SET-Q-BM-001 approval, named owners and detailed budget
Gate B	\$1.0 million to \$2.0 million	Benchmark tooling, provider integration, paid pilots and field readiness	Paid contracts or approved funding, baselines, provider package and safety plans

Capital gate	Proposed envelope	Permitted purpose	Release evidence
Gate C	\$3.0 million to \$7.0 million	Productization, delivery capacity, insurance, regional rollout and subscription scaling	Reproducible results, accepted pilots, recurring contracts and board approved scale plan

Cash Controls

- Invoice assessments at contract signing and final acceptance; avoid financing a customer's discovery work.
- Use deposits and milestone payments to cover cloud, hardware, travel and subcontract commitments before they are incurred.
- Track contract assets, receivables, deferred revenue and reimbursable costs separately from pipeline and capital proceeds.
- Require a spend ceiling, named account owner, billing alerts and shutdown authority for every cloud or experimental environment.
- Do not use an SBLC, equity commitment, debt instrument or project finance structure without independent validation and the applicable treasury, legal and capital approvals.

Business Risk Register

Risk	Rating	Commercial effect	Primary control	Owner
Premature capability claims	High	Loss of trust, legal exposure and failed sales	Evidence linked claims and approval schedule	Program Director
Weak customer demand	High	Pilot activity without repeatable revenue	Paid discovery, buyer validation and conversion thresholds	Commercialization Lead
Vendor lock in	High	Margin pressure and switching cost	Vendor neutral adapters, portable records and exit rights	SIOS Owner
Irreproducible result	High	No commercial release	Classical baseline, multiple runs and independent evaluator	Grid Lead
Operational or safety incident	Critical	Harm, shutdown and liability	Isolation, field authority, rollback and incident plan	Field and Security Leads
Uncontrolled delivery cost	High	Negative gross margin and cash strain	Milestone billing, deposits and project cost ledger	Program Director
Data or key leakage	Critical	Security, privacy and contractual breach	Managed key boundary, minimum data and automated controls	Cryptography Authority
IP conflict	Medium	Delayed commercialization or disputed economics	Background and foreground IP schedule before work	Commercialization Lead
Capital released before evidence	High	Loss of capital and governance breach	Separate technical, commercial and capital decisions	Capital Authority

First Ninety Day Commercialization Plan

Window	Commercial priority	Required deliverable	Exit condition
Days 0 to 15	Mobilize	Approve business model; appoint accountable leads; establish pricing, claims, contract and pipeline registers	Authority and owners recorded
Days 16 to 30	Package offers	Assessment scope, benchmark charter, data charter, pilot safety plan and proposal templates	Documents approved for controlled use
Days 31 to 45	Qualify market	Target list of 30 accounts, 12 qualified problems, five priority partners and three research channels	Buyer and problem evidence recorded
Days 46 to 60	Secure paid entry	Four proposals, two paid assessments or funded equivalents and provider diligence package	Executed work or recorded hold
Days 61 to 75	Build proof	Classical baselines, secure sandbox, node assurance minimum product and evaluator appointments	Test readiness decision
Days 76 to 90	Convert	Assessment findings, benchmark or pilot statements of work and first subscription conversion plan	Day 90 advance, hold or reject decision

Day Ninety Gate

The program may move into scaled pilot delivery only when at least two customers have funded work, the accountable roles are filled, the secure sandbox is approved, one classical baseline is reproducible, the provider decision package is complete, delivery costs are measurable and no unresolved issue exposes production systems, restricted data or private keys. Otherwise the program remains on hold with named remediation and a review date.

Executive Scorecard

Measure	Day 30	Day 90	Year 1 target
Governance	Roles and registers active	All work has signed charters	No material unapproved execution
Commercial	30 target accounts and 12 qualified problems	Two paid assessments or funded equivalents	Four enterprise customers
Delivery	Standard offer documents complete	One reproducible classical baseline	Four assessments, two benchmarks and one sensing pilot
Recurring product	Node assurance specification	Minimum product demonstrated	25 subscribed nodes
Economics	Price and cost model approved	Project cost ledger active	At least 45 percent modeled portfolio gross margin

Measure	Day 30	Day 90	Year 1 target
Claims	Claims register active	Every proposal reconciles to evidence	No unsupported capability, capacity or revenue claims
Capital	Gate A decision recorded	Gate B recommendation	No capital outside approved envelope

Executive Decisions Required

Decision	Recommendation	Authority status
Adopt the operating model	Approve SET-Q-BM-001 as the business model subordinate to SET-Q-001	Executive Sponsor decision
Appoint operating leads	Fill the six accountable operating roles within seven days	Reserved until recorded
Approve customer discovery	Authorize controlled outreach, workshops and proposal preparation	No external submission without review
Approve pricing bands	Use the proposed ranges for discovery and negotiation	Final contracts require deal approval
Approve Gate A budget	Release only against a detailed spend plan and named cost owners	Separate budget decision
Approve DARPA posture	Participate only as an application or validation partner with a qualified architecture developer	Go or no go required before submission

Authorization Record

Authorization field	Entry
Decision	Approve / Approve with conditions / Hold / Reject
Authorized scope	_____
Approved budget	_____
Reserved conditions	_____
Authorized by	Dr. Oliver E. Jones
Capacity	Knowledge Governor and Executive Sponsor
Decision reference	_____
Signature and date	_____

Source Register

Reference	Source	Link
R1	SET-Q-001 Quantum Ready Energy Infrastructure Directive	Internal companion document
R2	NIST approval of FIPS 203, 204 and 205	Open reference
R3	NIST CSWP 39 update on crypto agility	Open reference
R4	NCCoE Migration to Post Quantum Cryptography	Open reference
R5	DOE Quantum Algorithm Competition for Grid Resilience	Open reference
R6	NSF Project Triad	Open reference
R7	DARPA Quantum Benchmarking Initiative Stage A 2026	Open reference
R8	SIOS post quantum governance policy	Open reference
R9	SIOS PQC provider commissioning runbook	Open reference

Planning Assumptions

- All prices, margins, volumes, staffing ranges and capital envelopes are proposed management assumptions for validation.
- The model excludes energy project revenue, asset values, power sales, financing proceeds and unapproved contingent economics.
- The planned 5,000 node and 25 GW figures describe potential infrastructure opportunity and cannot be represented as deployed, contracted or financed.
- Current PQC and provider status must be reconciled to the controlling SIOS evidence before every material proposal or public claim.

Implementation Statement

SET-Q-BM-001 converts the SET-Q-001 directive into a commercial operating model. SourceEnergy Technologies will lead through energy domain ownership, governed validation, safe integration and recurring assurance. Scale will follow signed demand and reproduced evidence. Every material transition will retain accountable human approval.