

OLYELECTRA Renewable-Energy Capability Statement

Project definition, technology qualification, grid readiness and lifecycle performance

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Purpose			
A concise capability statement for project owners, utilities, public bodies, investors, OEMs, EPCs, integrators and service partners.			

Core capabilities

- Project origination and development: structure sponsor objectives, site readiness, resource/load evidence, permits, grid, offtake, timeline, budget and decision gates.
- Technology and supplier qualification: verify legal manufacturer and delivery role, exact model evidence, comparable references, quality scope, warranties and service coverage.
- Technical and commercial due diligence: organise yield, design, interconnection, safety, environmental/social, contract, degradation, availability and financial assumptions for review.
- Procurement and delivery coordination: convert the design basis into traceable specifications, bid criteria, responsibilities, acceptance evidence, change control and interfaces.
- Grid, storage and digital integration: coordinate protection, metering, power quality, EMS/SCADA, dispatch, cyber and jurisdiction-specific operating requirements.
- Operations and lifecycle: plan commissioning, monitoring, O&M, spares, warranties, incident response, repowering, recycling and decommissioning.

Typical programme outputs

- Project definition and evidence-gap register with owners and decision dates.
- Site, resource/load, permitting, grid and stakeholder readiness summary.
- Qualified supplier, exact-product and comparable-reference dossier.
- Technical/commercial comparison, assumptions, exclusions and risk register.
- Acceptance, handover, performance-monitoring and lifecycle plan.

Evidence principle

A product-family name, generic brochure or standard reference is not treated as proof. Evidence must be current, attributable to the legal manufacturer and exact configuration, relevant to the site and claim, and acceptable to the contracting and competent authorities.

Professional boundary

OLYELECTRA coordinates qualified workstreams but does not replace licensed engineering design, network-operator approval, public permits, independent technical advice, lender diligence or the asset owner's statutory responsibilities.

Technology families structured around project evidence, safety and lifecycle outcomes.

OLYELECTRA is technology- and brand-neutral at public-enquiry stage. The exact solution, model, certification basis and delivery route are selected only after the site, load, grid, jurisdiction and commercial case are defined.

Utility-Scale Solar PV

Ground-mounted and selected floating or agrivoltaic concepts for utilities, developers and institutional investors, from early definition through procurement and lifecycle planning.

- Site, land, irradiation and climate data
- DC/AC concept, modules, inverters, structures and balance of plant
- Energy-yield, losses, degradation and availability assumptions
- Grid, permitting, construction, commissioning and O&M interfaces

Project evidence boundary: *PV claims are linked to the exact model and project design. Module qualification, safety, commissioning and documentation evidence is requested where contractually and jurisdictionally applicable.*

Commercial & Industrial Solar

Rooftop, carport, behind-the-meter and campus solar programmes aligned to structural, electrical, fire, operational and energy-consumption constraints.

- Interval load data and self-consumption objective
- Roof/site rights, structural and fire-safety review
- Export limits, metering, protection and utility requirements
- Business case, tariff assumptions, warranties and maintenance access

Project evidence boundary: *Savings and payback are not presented as universal figures; they depend on verified load, tariff, tax, export, financing, degradation and curtailment assumptions.*

Onshore & Offshore Wind

Wind project and supplier coordination covering resource, turbine fit, site access, electrical infrastructure, environmental constraints and long-term service strategy.

- Measured or modelled wind resource and uncertainty
- Turbine class, site conditions, layout and wake assumptions
- Transport, crane, civil, electrical and grid interfaces
- Service availability, major components, spares and repowering

Project evidence boundary: *Energy and availability forecasts require project-specific resource assessment and verified turbine, layout, loss and operating assumptions; public descriptions are not bankable yield studies.*

Battery Energy Storage Systems

Front-of-meter and behind-the-meter storage for renewable integration, peak management, resilience, capacity and other approved market or network services.

- Use case, MW/MWh rating, duration and duty cycle
- Cell/system provenance, degradation, augmentation and warranty model
- Thermal management, detection, fire strategy and emergency response
- PCS, EMS, protection, grid code, commissioning and end-of-life

Project evidence boundary: *Storage design is treated as a system-safety and lifecycle decision. Chemistry, site separation, fire response, transport, operating limits and jurisdictional approvals are verified before selection.*

Hybrid Plants & Microgrids

Integrated solar, wind, storage, generators and controllable loads for grid-connected, weak-grid, remote and resilience-focused applications.

- Load profile, critical loads and resilience objective
- Generation/storage sizing and operating scenarios
- Island, resynchronisation, protection and black-start philosophy
- Controller, forecasting, communications, testing and operator training

Project evidence boundary: *Resilience claims depend on defined contingencies, fuel and resource availability, load priority, control logic and tested operating procedures.*

EV Charging & Fleet Electrification

Depot, workplace, destination, public and selected high-power charging programmes integrated with fleet duty cycles, sites, networks and energy systems.

- Vehicle mix, dwell time, route and charging demand
- AC/DC power, connectors, accessibility and user journey
- Site capacity, managed charging, storage and solar integration
- Back office, payments, roaming, uptime, cyber and maintenance

Project evidence boundary: *Charger power alone does not define a viable programme. Connection capacity, diversity, accessibility, interoperability, operations and whole-life service are assessed together.*

Grid Connection, Substations & Power Electronics

Coordination for interconnection applications, substations, transformers, switchgear, protection, metering, power conversion and selected grid-enhancing solutions.

- Connection point, voltage, capacity and queue status
- Load flow, short-circuit, protection and power-quality studies
- Single-line, interface, telemetry and compliance requirements
- Factory/site acceptance, energisation and asset records

Project evidence boundary: *Only the relevant network operator and competent authorities can grant connection or operating approval. Studies, models and settings remain project- and jurisdiction-specific.*

Energy Management, SCADA & Digital Monitoring

Monitoring, control, forecasting, optimisation, asset analytics and reporting for distributed and utility-scale energy portfolios.

- Metering architecture, data ownership and quality
- EMS/SCADA functions, interfaces and control authority
- Availability, alarm, event and performance reporting
- Cybersecurity, access, patching, backup and incident response

Project evidence boundary: *Connected energy systems require role-based access, secure architecture, supplier support, change management and recovery planning throughout the asset life.*

Renewable Heat & Electrification

Heat-pump, solar-thermal, thermal-storage and electrified-heating concepts for buildings, campuses and selected industrial applications.

- Heat demand, temperatures, operating hours and process constraints
- Source/sink conditions, seasonal efficiency and backup philosophy
- Electrical capacity, refrigerant, noise and site constraints
- Controls, metering, commissioning and maintenance

Project evidence boundary: *Performance depends on climate, system temperatures, building/process conditions, controls and installation quality; generic efficiency claims are not project guarantees.*

Green Hydrogen & Power-to-X

Early-stage opportunity screening and partner coordination for renewable hydrogen, electrolyzers, storage and selected derivative or industrial-use pathways.

- Demand, offtake and product specification
- Renewable-power source, additionality and operating profile
- Water, safety, permitting, compression/storage and logistics
- Electrolyser evidence, balance of plant, economics and certification route

Project evidence boundary: *Hydrogen projects proceed only with credible demand, safety and regulatory pathways. Public language does not imply renewable status, emissions intensity or certification without an approved methodology and evidence.*

Energy Efficiency & Demand Flexibility

Metering-led efficiency, load management, demand response and electrification programmes for commercial, industrial and infrastructure users.

- Baseline, boundary, interval data and material energy uses
- Operational constraints and controllable-load inventory
- Measurement and verification approach
- Persistence, maintenance, tariff and rebound assumptions

Project evidence boundary: *Savings claims require an agreed baseline, adjustment method, measurement boundary and verification period; estimates are clearly separated from measured outcomes.*

O&M, Repowering & Circular Lifecycle

Asset-performance, maintenance, spares, warranty, inspection, repowering, recycling and responsible end-of-life coordination across renewable portfolios.

- Asset register, configuration and maintenance baseline
- Availability, performance ratio and loss analysis
- Defect, warranty, incident, spare and obsolescence controls
- Decommissioning, take-back, recycling and record retention

Project evidence boundary: *Lifecycle planning starts before procurement. Waste, batteries, modules, oils, electronics and other materials follow applicable producer, transport and waste obligations.*

Eight evidence gates before an opportunity can become a qualified project.

Review depth is proportionate to technology, capacity, jurisdiction, site, stakeholder and transaction stage. Referenced standards apply only where required by contract, competent authority or local code, using the correct edition and scope.

- 1. Sponsor, authority & project boundary** - Legal entity, authorised requester, decision-makers, project purpose, ownership model, procurement route, capacity boundary and success criteria.
- 2. Site, resource & demand data** - Site rights, surveys, climate/resource data, interval loads, critical loads, access, logistics and data-quality/uncertainty statements.
- 3. Permitting, environment & community** - Planning, environmental and social screening, biodiversity, land/community impacts, cultural heritage, labour and stakeholder responsibilities.
- 4. Grid & system integration** - Connection point, queue/application status, grid studies, export/import limits, protection, metering, power quality, control and curtailment assumptions.
- 5. Technology & supplier evidence** - Legal manufacturer, exact model/configuration, current reports/certificates, factory/site references, warranties, degradation, service capability and change control.
- 6. Safety, quality & cybersecurity** - Design risk, electrical/fire/emergency strategy, HSE and quality plans, acceptance tests, secure architecture, access and incident/recall processes.
- 7. Commercial & bankability case** - Price basis, exclusions, schedule, yield/savings methodology, offtake/tariff, tax/incentive, financing, insurance, availability and sensitivity assumptions.
- 8. Operations & circular lifecycle** - O&M, spares, monitoring, performance verification, warranty, augmentation/repowering, take-back, recycling, decommissioning and record retention.

Do not send credentials, detailed grid models/settings, critical-infrastructure diagrams, personal identity documents, commercially restricted data or other security-sensitive information through the public form. Sensitive evidence is exchanged only after due diligence through an approved channel.

Project governance: public categories do not confirm stock, representation, certification, connection capacity, permit eligibility, incentive, yield, savings, emissions impact, price or finance. These are verified for the exact project, product, jurisdiction and transaction stage.