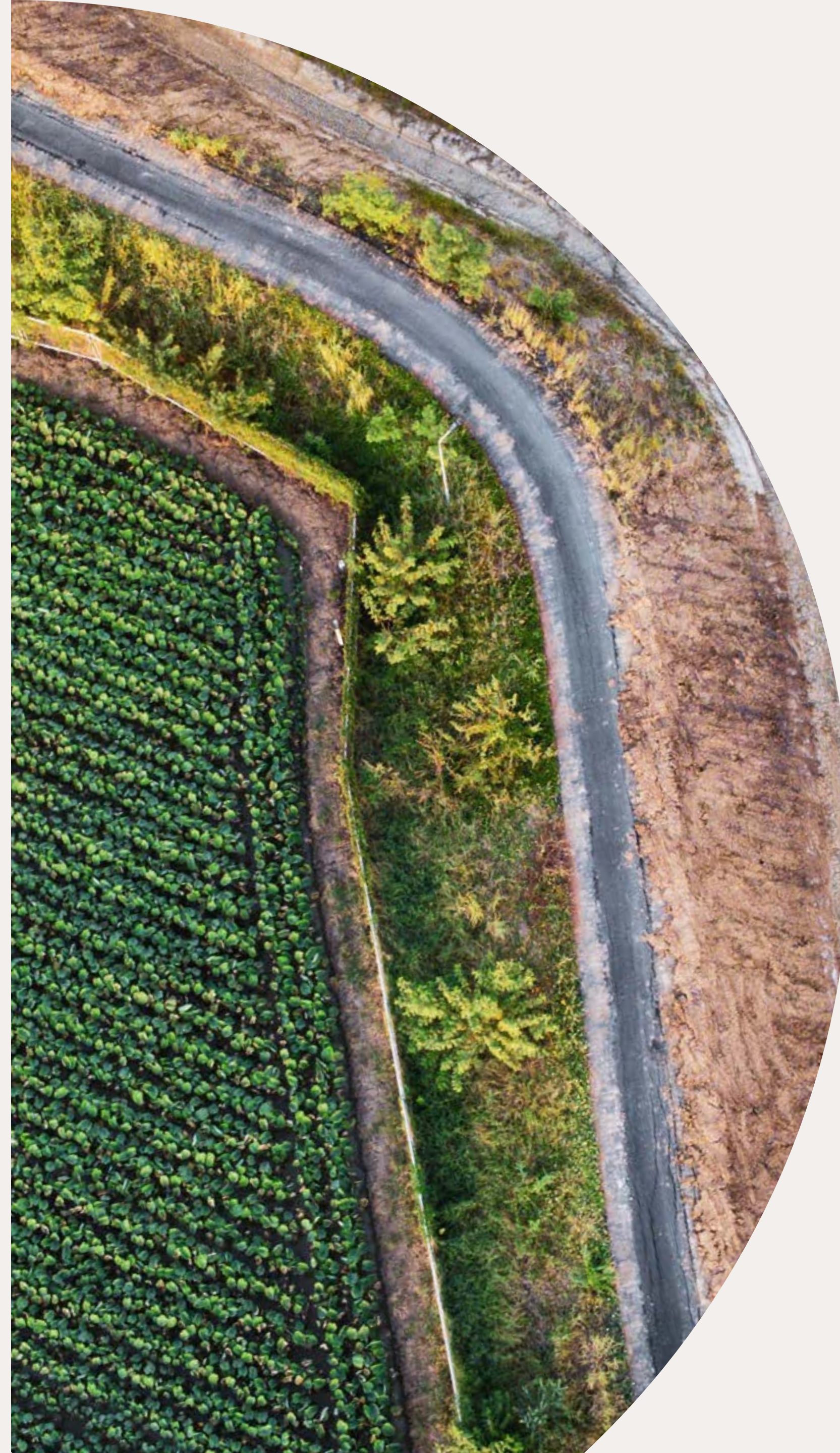


Powering Global Energy Transformations





Strategy, Sustainability, Impact

Energy is central to sustainable development, climate action, economic resilience and inclusive prosperity. Over 75% of global greenhouse gas emissions originate from energy production and use, making the sector key to addressing climate change. The Stantec team in Belgium, an instrumental entity within Stantec's global consulting network, brings four decades of experience supporting the design, preparation and implementation of energy reforms and infrastructure investments worldwide.

Our mission is to accelerate just and sustainable energy transitions by delivering integrated technical, regulatory and strategic solutions.

We support governments, regional and continental bodies, as well as international financial institutions (IFIs) across Africa, Asia, Europe and Latin America through policy design, technical assistance, project preparation and implementation support. Our work is grounded in the principles of impact, innovation and inclusivity, in full alignment with Sustainable Development Goal 7, the Paris Agreement, Agenda 2063, and the European Union (EU)'s Green Deal, Clean Industrial Deal and Global Gateway Strategy.

With an approach built on equity, institutional trust and evidence-based action, Stantec integrates sustainable energy into broader economic, social and environmental systems—making us a critical partner in the delivery of transitions.

The Stantec Advantage

Unparalleled Track Record

With over 40 years of operational experience, Stantec has implemented more than 450 flagship energy assignments notably under the EU Technical Assistance Facilities (TAFs) in the energy sector (former West and Central Africa and East and Central Africa “Sustainable Energy for All” (SE4ALL) TAFs, now EU Energy Facility), the Sustainable Energy Connectivity in Central Asia (SECCA) project, and the Continental Energy Programme in Africa (CEPA). These projects span energy policy, renewable energy (RE) development, electrification planning, energy efficiency (EE), hydrogen deployment, market integration and investment-related advisory, demonstrating our strategic alignment with global energy agendas.

Integrated, Multidisciplinary Expertise

Our close network of 400+ energy professionals includes engineers, economists, policy analysts, finance experts, environmental and social sciences experts as well as legal and regulatory advisors. We offer full-spectrum services from sector diagnostics and master plans to institutional reform, investment planning and project implementation. This integration enables comprehensive, fit-for-purpose solutions tailored to national and regional contexts.

Trusted by Leading Institutions

Stantec is a long-standing partner of the European Commission, European Investment Bank, African Development Bank, World Bank, GIZ, AFD, regional organizations and national governments. Our deep understanding of IFI procedures and safeguard frameworks allows us to deliver reliably in complex environments.

Cross-cutting Sustainability Leadership

We mainstream gender, climate resilience and digital transformation in all activities. From geospatial electrification modelling to gender-informed energy planning and ESG compliance, our work enhances the social and environmental integrity of energy investments.

Global Footprint, Local Presence

We have delivered assignments in over 80 countries. From renewable auctions in Kazakhstan to energy efficiency strategy in Côte d’Ivoire and multiple market reforms in Africa and Asia, our regional presence ensures locally grounded solutions, supported by international standards.



Our Core Service Areas

Energy Policy & Regulatory Reform

We support governments and regulators in creating robust legal, institutional and regulatory frameworks that accelerate

- Development of national energy policies, action plans and legal frameworks (e.g., National RE Action Plans in Central Asia)
- Regulatory reform for energy market integration (e.g., governance of the African Single Electricity Market (AfSEM) under the EU Energy Facility and CEPA; electricity market design for the Economic Community of West African States (ECOWAS))
- Tariff methodologies, unbundling strategies, and cost-reflective pricing models
- Institutional capacity building and stakeholder consultation processes (e.g., Côte d'Ivoire electricity regulatory reform)

(Pre-)Feasibility Studies & Technical Advisory

We provide techno-economic assessments and feasibility studies for infrastructure investments:

- Renewable energy resource assessments and grid integration modelling (e.g., Uzbekistan, Egypt)

- Electrification master planning and geospatial least-cost mapping (e.g., SE4ALL missions across sub-Saharan Africa)
- Off-grid electrification system modeling and design including productive uses of energy (e.g., The Gambia, Uganda)
- Electrification of social infrastructures (e.g., Rwanda)
- Hydrogen and derivatives systems design
- Environmental, gender and social safeguards integration

Energy Access & Electrification

Stantec delivers strategic and operational support to increase and improve access to modern energy services:

- Development of electrification master plans and geospatial access mapping, incorporating institutional reforms and investment prospectuses (e.g., Uganda, Nigeria, Togo)
- Advisory services for off-grid and mini-grid deployment, including tailored delivery models and an assessment of productive uses of energy
- Development of gender-sensitive energy access strategies and climate-resilient electrification programs
- Capacity building for rural electrification agencies and utilities, including development of planning tools and digital dashboards for implementation monitoring

Renewable Energy & Green Hydrogen

We offer end-to-end support on RE and green hydrogen development:

- Auction mechanism design and investment pipeline structuring (e.g., SECCA auction support)
- RE integration into national and regional markets (e.g., Viet Nam, Caribbean)
- Cross-border RE trade facilitation (e.g., in Africa at continental level and regional level - ECOWAS interconnectivity)
- Green hydrogen strategy and action plan development (e.g., Kenya Hydrogen Strategy, Egypt's Power-to-X (PtX) roadmap with the EU and European Investment Bank (EIB))

Energy Efficiency

We develop enabling frameworks to plan and scale EE investments:

- Capacity building and development of monitoring tools for district-level EE committees (Côte d'Ivoire)
- Energy efficiency and demand-side management roadmaps (e.g., Portugal, Tunisia, Lebanon)
- National Energy Efficiency Action Plans (NEEAPs) and sectoral EE strategies (e.g., Argentina, Côte d'Ivoire, Madagascar, Senegal, Zimbabwe)

Investment Mobilization & Access to Sustainable Finance

We help energy project promoters identify and access diversified and innovative sources of funding, including climate and green finance:

- Identification, monitoring and support to the maturing of pipelines of bankable sustainable energy projects (e.g., Africa, Central Asia, Latin America)
- Study on financing mechanisms for priority projects contributing to the operationalization of Africa's Continental Power System Master Plan
- Support to the mobilization of funding from multilateral climate funds for RE and EE projects (e.g., Côte d'Ivoire)
- Identification of financing options for the solar photovoltaic (PV), electric vehicle (EV) charging infrastructure and hydrogen refueling stations in Croatia's motorway network
- Design of investment strategies to accelerate the renovation of public and residential buildings for energy performance (e.g., Portugal)



Geographic Experience Highlights



Africa

Stantec has played a critical role in shaping Africa's continental, regional and national energy landscapes:

- Led regulatory and institutional workstreams under AfSEM, supporting the African Union Commission in designing the governance, legal and market frameworks for regional and continental electricity integration
- Supported the ECOWAS Regional Electricity Regulatory Authority (ERERA) and West African Power Pool (WAPP) in reviewing electricity market rules, system and market operator institutional options, and regional transmission code design
- Developed EE roadmaps for more than 10 sub-Saharan African countries including appliance standards, energy codes, and utility capacity support
- Delivered national electrification planning, clean cooking strategy, and investment prospectus development for countries such as Nigeria, Togo and Uganda under the SE4ALL framework
- Provided technical assistance in PtX readiness and hydrogen economy development in Egypt, including policy guidance and investment pipeline structuring under EIB and EU mandates
- Supported the African Energy Commission (AFREC) in developing the African Energy Transition Strategy, including decarbonization pathways for pilot country implementation and regional coordination mechanisms



Asia

Our work in Asia has focused on governance strengthening, planning and renewable energy deployment:

- Under SECCA, supported Central Asian countries (Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan) with RE auction design, minimum performance standards, national energy statistics, and integrated planning methodologies – and delivered legal and regulatory support to ministries and regulatory authorities for the harmonization of national frameworks with regional transition goals
- In support of the EU-Viet Nam Sustainable Energy Transition, provided recommendations for the upgrading of the Viet Nam Energy Information System and the selection of off-grid RE models, and specified the needs for regulatory framework upgrading in support of off-grid RE deployment



Europe & Neighborhood

Stantec is actively engaged in the European energy transition.

- Supported Portugal in developing its energy efficiency financing ecosystem through policy advisory, taxonomy alignment, and project screening for green bonds and public-private financing
- Provided strategic advisory for corporate decarbonization planning in Lithuania (Achemos Group)
- Supported the integration of solar PV, EV charging and hydrogen refueling infrastructure along Croatian motorways
- Delivered technical inputs to Ukraine's just transition and decarbonization strategies, focusing on coal phasing-out and regional resilience
- Engaged with the European Commission on market design reform and digitalization strategies through multiple framework contracts



Latin America & Caribbean

Our regional support spans energy efficiency and renewables:

- In Argentina, developed the National Energy Efficiency Action Plan, including energy labelling schemes, institutional reform proposals, and training programs for public agencies
- Advised Caribbean island states on renewable energy deployment and resilience integration, combining RE assessments with financing mechanisms
- Provided transaction advisory and investment promotion support for sustainable energy portfolios under EU and EIB cooperation

Delivering Value with Purpose

Stantec is more than a consultancy. We are a strategic partner in driving energy transitions that are equitable, climate-resilient and investment-ready. Our proven ability to work across policy, planning, finance and engineering ensures that energy solutions are institutionally grounded, technically robust and socially responsive.

With a global footprint, trusted by IFIs and national partners alike, Stantec offers the capacity, agility and commitment to deliver on complex energy mandates worldwide. Whether leading regulatory harmonization under AfSEM, supporting hydrogen diplomacy in Egypt, or designing electrification blueprints in Africa and Asia, our work transforms policy into progress.





Connect with us

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