

Multidisciplinary sustainability and building-performance partner for the built environment

Building physics · Energy modelling · Green building · Whole-life carbon · Commissioning & M&V

LEGAL NAME	TYPE	BASED IN	ESTABLISHED	EXPERT POOL	FRAMEWORKS
Altensis İnşaat Enerji Ltd. Şti.	Consultancy (SME)	Istanbul, Türkiye	2008	14 professionals ~19 yrs average	LEED · BREEAM · EDGE WELL · ENVISION

Altensis is a multidisciplinary sustainability and building-performance consultancy established in 2008 and headquartered in Istanbul, Türkiye. The company brings together architectural, civil, mechanical, electrical and environmental expertise to support high-performance buildings, energy-efficiency investments and sustainable project delivery.

Altensis provides consultancy throughout the building lifecycle: sustainability strategy, energy audits and performance assessment; multidisciplinary design coordination; implementation support; commissioning; and post-renovation performance verification. It has contributed to public-building and internationally financed programmes involving schools, hospitals, universities and large institutional portfolios, with assignments supported by the World Bank, KfW and the European Union, the EBRD, the European Investment Bank and the Green for Growth Fund.

A technical and sustainability partner for Horizon Europe and New European Bauhaus projects.

Altensis has not previously participated in Horizon Europe. The company is seeking to join consortia where building-physics depth, whole-life carbon assessment and independent performance verification are needed alongside demonstration and design work.

CORE CAPABILITIES

Building energy modelling & simulation	Building performance assessment	Existing-building & major-renovation assessment	Green building certification
LCA & embodied carbon	Sustainable materials	Indoor environmental quality	Health & well-being
Energy audits & investment planning	Commissioning	Measurement & verification	Multidisciplinary design coordination
Technical review & QA/QC	Construction-stage sustainability support	Post-renovation performance verification	Stakeholder engagement & capacity building

LOCAL DELIVERY, INTERNATIONAL STANDARDS

Altensis combines detailed knowledge of Türkiye's building sector, climatic conditions, regulations and construction practices with experience in international sustainability and performance frameworks. The company works with public authorities, financial institutions, designers, contractors and international project teams to adapt global requirements to local implementation conditions. Certified projects have been delivered in Türkiye, Hungary, Uzbekistan, Kazakhstan, Jordan, Pakistan, Russia and Northern Cyprus.

Altensis is a signatory to the ten principles of the UN Global Compact.



Potential roles in a consortium

Altens contributes across the building lifecycle, from early assessment and modelling through design coordination and implementation support to commissioning, verification and operational performance.

WP A · Building performance & energy modelling

CAN LEAD

- Dynamic energy simulation (EnergyPlus, DesignBuilder) and building physics analysis
- Envelope and HVAC performance assessment; passive and active strategy evaluation
- Thermal comfort and energy-use assessment to ASHRAE 55, 62.1, 90.1, 170 and TS 825
- Daylight modelling and visual comfort analysis
- Future-weather and climate-sensitivity analysis of envelope parameters

WP B · Sustainability, LCA & whole-life carbon

CAN LEAD

- Life Cycle Assessment of buildings and building elements
- Embodied carbon assessment and reduction strategies
- Life-cycle cost analysis alongside environmental results
- Sustainable materials and EPD-based product assessment
- Water efficiency and lifecycle resource performance
- Carbon and impact reporting for projects and portfolios

WP C · Green building, IEQ & user-centred performance

CAN LEAD

- LEED, BREEAM, EDGE, WELL and ENVISION assessment and certification management
- Indoor environmental quality: air quality, thermal comfort, lighting, acoustics
- Occupant health and well-being strategies at design and operational stages
- Sustainable design input from concept through construction
- User-centred performance criteria embedded in project documentation

WP D · Technical coordination & integrated design

CAN LEAD

- Multidisciplinary coordination across architectural, structural and MEP disciplines
- Technical review of architectural and MEP designs against performance criteria
- Sustainability requirements written into technical specifications and tender documentation
- Design-stage QA/QC and documentation quality control
- Integration of performance criteria into cost estimates and project documentation

WP E · Commissioning, M&V & operational performance

CAN LEAD

- Measurement and verification to IPMVP, by EVO-certified professionals
- Commissioning coordination and functional performance testing
- Post-renovation performance verification and energy-savings monitoring
- Operational performance review of buildings in use
- Performance-gap analysis between design intent and measured outcome

WP F · Implementation, capacity building & replication

CONTRIBUTING

- Construction-stage sustainability monitoring, technical support and QA/QC
- Training, workshops and technical guidance for clients and project teams
- Institutional capacity support and stakeholder coordination
- Technical guidance and replication material for public-building portfolios

WHAT ALTENSIS CAN BRING TO A CONSORTIUM

Building physics as a discipline

Two specialists hold master's degrees in building physics. Energy modelling is delivered in-house with EnergyPlus and DesignBuilder rather than subcontracted.

Verification across the lifecycle

The company that models performance at design stage also commissions, measures and verifies it in operation — useful where a project must prove rather than assert its claims.

Seventeen years in green buildings

Altens supported Türkiye's first LEED-certified project and has since delivered certification and performance work across public, commercial, institutional and industrial buildings.

Public and IFI programme experience

World Bank, KfW/EU, EBRD, EIB and GGF assignments covering audit, technical review, retrofit assessment, M&V and ESHS documentation.

Türkiye as demonstration context

Multiple climatic zones within one country, a large existing public-building stock, and construction cost structures that test affordability claims.



Selected relevant experience

Seven references selected from the Altensis portfolio for their relevance to New European Bauhaus and Horizon Europe work on existing buildings, public stock and building performance.

KABEV2 — Konya Public Buildings

Funding: World Bank
Role: Lead JV member

22 public-building campuses · approx.
302,335 m²
hospitals and university buildings

- Investment-grade energy audits and retrofit planning across the campus portfolio
- HVAC, envelope, heat-pump and renewable-energy measures
- M&V planning and ESHS support

KABEV — National Technical Assistance

Funding: World Bank
Role: JV partner

National programme covering approx. 500
existing public buildings

- Review of energy audits and multidisciplinary retrofit designs
- Commissioning, measurement and verification
- Post-renovation monitoring

MADAD — Public-School Energy Efficiency

Funding: KfW / European Union
Role: JV partner

500-school portfolio across 11 cities · 130
shortlisted · 40 studied in detail

- Screening and prioritisation of a national school portfolio
- Retrofit support across the shortlisted and detailed samples
- Solar-PV components

EBRD Public-School Energy Audits

Funding: EBRD
Role: Technical sub-consultant

8 schools across 4 climatic zones · approx.
67,200 m²

- Detailed audits covering building envelope, HVAC, lighting and electrical systems
- Energy efficiency measures with payback, NPV and IRR analysis
- Rooftop-PV assessment

ISMEP — Performance of 25 Retrofitted Schools

Funding: World Bank
Role: Technical support

25 retrofitted school buildings

- Post-renovation assessment across the retrofitted sample
- Comparison of energy, carbon and water performance
- Evidence-based review of retrofit outcomes

Existing buildings & major renovations

Client type: Private and institutional owners
Role: Sustainability consultant

Istanbul Cevahir 353,426 m² · Sakıp Sabancı
Museum 9,000 m² · Bayer Türkiye HQ 12,000
m² · ISO Odakule 13,000 m² · Tarsim HQ
5,140 m²

- Operational performance assessment of buildings in use (LEED O+M)
- Energy, water, waste and materials performance improvement in occupied buildings
- Major-renovation performance strategy for existing building stock

Public healthcare & education buildings

Client type: Ministry of Health · Ministry of
National Education · Istanbul Project
Coordination Unit
Role: Sustainability consultant

Bursa City Hospital 356,700 m² · Kartal Dr.
Lütfi Kırdar City Hospital 235,807 m² ·
Göztepe City Hospital 186,300 m² · Kadıköy
Atatürk Science High School · SEV Çekmeköy
Campus

- Sustainability and performance consultancy on large public healthcare facilities (LEED for Healthcare)
- Certification delivery on publicly owned school buildings (LEED for Schools, Platinum)

TRACK RECORD AT A GLANCE

~500

public buildings

national technical assistance
programme

302,335 m²

across 22 campuses

hospitals and university buildings

500 / 130 / 40

schools screened · shortlisted ·
studied

across 11 cities

8 / 4

schools · climatic zones

approx. 67,200 m² audited in detail



Team & fit with NEB 2026 calls

A · KEY TEAM

Mehmet Serkan Emin

Managing Partner · 23 years

Mechanical Engineer (Boğaziçi) · ASHRAE BEMP · LEED AP BD+C & O+M · IFC EDGE Expert · Building Energy Manager

Technical coordination and project management of clean energy, energy efficiency and green building projects financed by the EU, KfW, World Bank, EBRD and GGF. Senior technical manager on KABEV; energy-efficiency expert on MADAD.

Emre Ilıcali

Managing Director

LEED Fellow · LEED for Homes Green Rater

Senior certification leadership and green-building market development. One of the first two LEED Fellows in Türkiye and among the first international LEED for Homes Green Raters outside the USA. Received the GBCI Europe Top Solution Provider award on behalf of Altensis at Greenbuild Europe 2018.

Müge Emen Göytan

Projects Coordinator · 15 years

Architect (ITU) · M.Sc. Environmental Control & Construction Technologies · Ph.D. candidate, Construction Sciences · LEED AP BD+C, ID+C, ND · BREEAM International AP

Coordination of the company's green building portfolio; certification and building Life Cycle Assessment across LEED, BREEAM, WELL, ENVISION and IFC EDGE. Doctoral research on green building performance assessment.

Mustafa Dehmen

Building Performance Team Leader · 10 years

Mechanical Engineer · M.Sc. Building Physics (YTU) · LEED AP BD+C · EVO M&V Expert · Building Energy Auditor

Dynamic energy simulation (EnergyPlus, DesignBuilder), building physics and HVAC consultancy across more than 100 green building projects. Master's research on future climate data and passive envelope parameters.

Billur Tekinbaykal

Sustainability Consultant · 10 years

Architect (YTU) · M.Sc. Building Physics and Acoustics · LEED AP BD+C

Energy-efficient buildings, daylight modelling, building life-cycle analysis and sustainable building design. Develops internal sustainability, well-being and conduct guidelines for client organisations.

Wider expert pool

14 professionals · ~19 years average

Architects, civil, mechanical and electrical engineers, building-performance specialists, energy auditors, commissioning professionals, sustainability consultants and occupational health and safety experts, mobilised per assignment.

DISCIPLINES AVAILABLE IN THE TEAM

Energy & building performance	Building physics & energy modelling	Architecture & sustainable design	Mechanical engineering	Electrical engineering
Structural & civil engineering	Commissioning & M&V	LCA & embodied carbon	Sustainable materials	Green building certification
IEQ, health & well-being	Energy audits	OHS / ESHS	Stakeholder engagement	Project management

B · FIT WITH NEB 2026 CALLS

REGEN-01

Thermal comfort in buildings

STRONG FIT

- Building physics and dynamic energy modelling of proposed solutions
- Thermal comfort assessment to ASHRAE 55; passive and active strategy evaluation
- Daylight, IEQ and occupant well-being assessment
- Life-cycle GHG and life-cycle cost evaluation against market-standard solutions
- Performance across climatic zones, evidenced by school audits in four zones
- Commissioning and post-installation validation

Not claimed: development of vernacular construction techniques or nature-based products; heritage-building intervention.

REGEN-02

Sustainable maintenance and repair of existing buildings

STRONG FIT

- Condition and operational performance assessment of buildings in use
- LCA and life-cycle cost analysis to underpin a decision-support tool
- Embodied carbon and EPD-based assessment of repair and replacement options
- Major-renovation performance strategy for existing building stock
- Hazardous-material and occupational-safety expertise for works in occupied buildings
- Commissioning, M&V and post-intervention verification

Not claimed: predictive-maintenance algorithm or software development; social-housing demonstration.

REGEN-03

Sustainable and beautiful use of vertical space

CONTRIBUTING

- Structural and static feasibility of roof-mounted additions, drawing on roof solar structural design and building reinforcement experience
- Roof and envelope build-up, insulation and waterproofing detailing
- Energy and performance modelling of the host building with the added layer
- LCA and environmental performance assessment
- Structural and MEP coordination; technical validation

Not claimed: vertical farming or agronomic systems; architectural authorship of vertical extensions.

Joint call

Circular economy models in construction, from buildings to city scale

CONTRIBUTING

- Life Cycle Assessment and embodied carbon at building and element level
- Circular and low-impact material selection; EPD-based procurement workflows
- Lifecycle performance and life-cycle cost analysis
- Green-building frameworks as circularity delivery mechanisms
- Design and implementation guidance, technical review and QA/QC

Not claimed: material reprocessing technology; city-scale material flow modelling.

Altensis works closely with its sister company BESENVE Energy. Where appropriate, the two companies can mobilise complementary expertise for energy-efficiency, public-building renovation, demonstration, commissioning, M&V, building performance and sustainability assignments. Altensis and BESENVE are separate legal entities with separate corporate track records.

We are looking to join Horizon Europe and New European Bauhaus consortia as a multidisciplinary sustainability and building-performance partner.

Potential contribution areas: Building Performance | Energy Modelling | LCA | Embodied Carbon | Sustainable Materials | Green Buildings | IEQ | Commissioning | M&V | Integrated Design | Technical Validation

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