

Request for Proposal (RFP) for Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon

Prepared by the Lebanese Center for Energy Conservation (LCEC)

June 2026

Beirut, Lebanon

The Lebanese Center for Energy Conservation (LCEC) reserves the right to request additional information to be added to the RFP.

Should any company interested in submitting a proposal fail to provide its contact details to the LCEC, the LCEC shall not be responsible if such company fails to receive any updates to this document or clarifications relating thereto.

The enclosed technical specifications book is prepared by the Lebanese Center for Energy Conservation (LCEC).

June 2026 - Beirut, Lebanon

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A. Abbreviations

BESS	Battery Energy Storage System
CSP	Concentrated Solar Power
EDL	Electricité du Liban
ESIA	Environmental and Social Impact Assessment
GWh	Gigawatt Hours
IBC	International Building Code
IEC	International Electro-technical Commission
IFC	International Finance Corporation
ILO	International Labour Organization
JV	Joint Venture
kV	Kilo Volt
kWh	Kilowatt Hour
kW	Kilowatt
kWp	Kilowatt Peak
LCEC	Lebanese Center for Energy Conservation
MEW	Ministry of Energy and Water
MoU	Memorandum of Understanding
MW	Megawatt
NEEAP	National Energy Efficiency Action Plan
NREAP	National Renewable Energy Action Plan
OECD	Organization for Economic Co-operation and Development
PDF	Portable Document Format
PV	Photovoltaic
RFP	Request for Proposal
UNDP	United Nations Development Programme
URL	Uniform Resource Locator
USB	Universal Serial Bus

B. Important Notes

1. The Lebanese Center for Energy Conservation (LCEC) completed phase 1 of the feasibility study for the development of a Concentrated Solar Power (CSP) in Baalbek-Hermel, Lebanon.
2. Based on the outcomes of phase 1, the objective of this Request for Proposal (RFP) is for the LCEC to procure consultancy services for the development of a Solar PV + Battery Energy Storage System (BESS) plant in Baalbek-Hermel, Lebanon, utilizing a contract agreement.
3. Outcomes of phase 1 concluded that the Solar PV + BESS renewable energy technology is the most suitable alternative technology in the feasibility study's context.
4. The intent is to award the contract to one qualified bidder for completing the consultancy services.
5. A single consultancy services company or a consortium of companies can apply to this bid and will be referred to from this point onward as the consultant.
6. The consultant will assess the feasibility of installing and operating a Solar PV + BESS plant in the Baalbek-Hermel region in Lebanon. This contract covers the detailed studies for the Solar PV + BESS plant in Baalbek-Hermel, Lebanon consisting of: financial viability analysis, economic viability analysis, procurement analysis, implementation and O&M plan, proportional Environmental and Social Impact Assessment (ESIA), and detailed tender documents.
7. It is important to note that the World Bank is currently supporting the Lebanese government through the Lebanon Renewable Energy and System Reinforcement Project¹.

¹ <https://documents.worldbank.org/en/publication/documents-reports/documentdetail/099091124181525582>

The outcomes of the current assignment will be harmonized with this initiative through sharing available information and lessons learned. The objective of this assignment is therefore to assess the appropriate structure to attract private investment and implement the project, given the institutional setting, regulatory requirements and identified risks.

8. Proposal is due on July 15, 2026 at 2:00 p.m Beirut time. All proposals received after the mentioned date and time will be rejected.
9. LCEC may, at its discretion, extend the deadline for the submission of proposals, in which case all rights and obligations of LCEC and the applicants subject to the previous deadline shall thereafter be subject to the deadline as extended.
10. Proposals must be delivered to the LCEC offices at the following address: Ministry of Energy and Water (MEW), Corniche du Fleuve, 1st Floor, Room 303.
11. Proposals shall be in two (2) envelopes: Envelope (1) contains the Administrative, Capabilities and Technical Proposal and Envelope (2) contains the Financial Offer. The proposal shall be valid for 210 days from the proposal due date.
12. All information included in all the pages of this document and its annexes is an integral part of this Request for Proposal (RFP).
13. Interested bidders are required to read carefully all the information in all the sections: abbreviations; important notes; background of the project; scope of the project; instructions to bidders; general organization of the submittal; evaluation process and scoring method; qualification criteria- stage 1; technical scoring- stage 2; general terms and conditions; miscellaneous term and conditions; general conditions of contract; forms section; and the annexes.
14. The technical specifications book is enclosed in Annex as a functional document to guide bidders to design and propose fully operational systems.
15. For all questions, comments, suggestions, and clarifications regarding this proposal, communicate with LCEC **ONLY by email** to: energy@lcec.org.lb. All requests for clarifications shall be submitted no later than 6 July 2026.

C. Background

16. In 2018, Lebanon had an actual installed capacity of around 65.5% of the power demand in the country noting that the yearly increase in electricity demand is around 3%². This makes the energy sector one of the most challenging to the Government of Lebanon, making energy efficiency solutions essential to overcome the energy sector's problems.
17. Substantial changes occurred to the electricity sector ever since. The supply and demand for electricity both remarkably shrunk. The increased need for energy security triggered the exceptional addition of decentralized renewable energy solutions coupled with the removal of subsidies on the energy products and electricity tariffs.
18. The Government of Lebanon is keen to overcome the problems of the electricity sector in order to meet the expected economic growth that would provide considerable social and economic benefits, and reach the target of 30% from renewable energy by 2030. This target is only achievable through the utilization of renewable energy power plants and specifically solar technologies in a country that has an estimation of 300 sunny days per year.
19. In June 2010, the Policy Paper for the Electricity Sector that was presented by the Ministry of Energy and Water (MEW) to the Council of Ministers set a target of increasing installed production capacity through an arrangement of actions including thermal as well as renewable energy power plants.
20. In November 2011, the Council of Ministers approved the National Energy Efficiency Action Plan (NEEAP) 2011-2015, prepared by the Lebanese Center for Energy Conservation (LCEC) and presented by the MEW. Initiative 7 of the NEEAP 2011-2015 is about "Electricity Generation from Solar Energy", with the objective to "start the development and promote the generation of electricity from solar PV and CSP stations".

² Updated policy paper for the electricity sector, Ministry of Energy and Water, March 2019

21. In January 2017, The MEW launched the National Renewable Energy Action Plan (NREAP) 2016-2020. The NREAP 2016-2020 includes a specific chapter for concentrated solar power generation with a realistic target of 50 MW and an optimistic target of 100 MW, both with 7.5 hours of storage.
 22. In September 2025, the updated National Renewable Energy Action Plan (NREAP)³ 2025-2030 was launched. Three potential pathways were identified for the growth of renewable energy capacities in Lebanon while highlighting the role of solar technologies in achieving the optimal scenario.
 23. This project was launched as “Consultancy Services for the Development of a Concentrated Solar Power Plant in Baalbek-Hermel Lebanon”. It targeted the feasibility study of a CSP plant in Baalbek-Hermel, Lebanon.
 24. Phase 1 of the project has been completed, and the outcomes of the feasibility study pushed towards exploring a more optimized alternative renewable energy solution, Solar PV + BESS. The feasibility of this alternative will be further investigated during phase 2 of the project, which is the current scope of this assignment.
 25. The project will be under the supervision and management of the LCEC, and in close coordination with Lebanon’s national electric utility Electricité du Liban (EDL).
 26. The expected duration of the project is 6 months starting the date of the contract signature with the consultant.
 27. The financing for the project is completely available to the LCEC through funding by Invest International on behalf of the Dutch Ministry of Foreign Affairs, under the grant facility Develop2Build (D2B)
 28. The disbursement schedule which shows the financial impact of such an event in terms of payments to the consultant is detailed in the annex. The disbursement is set in euros.
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³ [Updated National Renewable Energy Action Plan 2025-2030](#)

29. The consultant submits the invoices to the LCEC, including the documentation described in the conditions of the disbursement schedule.
30. The LCEC will send the invoice(s) and the required documents to Invest International.
31. Before contract award, LCEC submits the final contract with its payment schedule for a Statement of No Objection by Invest International. Based on the payment schedule, Invest International will prepare a disbursement schedule in consultation with the LCEC and the consultant.
32. Payment by Invest International will be made directly to the Consultant on behalf of LCEC to the extent and on the conditions described in the disbursement schedule.
33. Invest International can issue a Statement of no objection and release the final disbursement after a Statement of acceptance is received from LCEC on the D2B-project deliverables.
34. The consultant will supply during and after implementation of the D2B-project accurate, detailed and complete information to the LCEC regarding the project.
35. At no cost to the LCEC and Invest International, the consultant will acknowledge Invest International 's funding in publications, advertising, speeches, lectures, interviews, press releases and other similar activities, ensuring the appropriateness and accuracy of any messages.
36. Invest International and LCEC may, or may instruct others to, inspect or audit the activities carried out in respect of the project including the consultant's financial reports and financial accounts and/or the periodic reports described in the provisions above.
37. The consultant will render every assistance to the official(s) appointed by the Invest International and LCEC to carry out such inspection and will allow them access to any documents related to this project. The costs of any such inspection or audit will be borne by Invest International.

D.Scope

38. The consultant shall study the feasibility of at least 175 MWp + 550 MWh plant in Baalbek-Hermel, Lebanon, to enhance the national energy security through a renewable and sustainable energy source.
39. The LCEC will deliver the Consultant the studies developed in Phase 1, including the following:
1. Technical studies covering desk study, demand and supply gap analysis, site selection and cost estimates of CSP types including but not limited to:
 - Installed and planned supply capacities
 - Historical growth in demand and demand forecast
 - Evaluation of proposed sites
 - Adaptation of DNI satellite values with ground meteorological station
 2. Institutional assessment including but not limited to:
 - Stakeholders engagement
 - Capacities and potential barriers
 - Socio-economic analysis
 3. Identification of (co)financing sources including but not limited to:
 - Qualitative EPC vs IPP comparison
 - PPA procurement report
 4. Financial and economic analysis including but not limited to:
 - Financial model assumptions book
 - Economic analysis assumptions book
 - Risk allocation report
 5. Project Screening Form and ESIA Scoping Report;
 6. Description of potential other renewable energy sources with storage capacity, including CAPEX and OPEX estimates including for Solar + BESS but not limited to:
 - Solar resource analysis
 - Plant configuration
 - Energy yield assessment
 - Economic and financial parameters
40. The current assignment focuses on the development of a Solar PV + BESS plant and shall comprise the elaboration of the studies and documents mentioned here below:

- Financial viability analysis
- Economic viability analysis
- Procurement and ownership analysis
- Implementation and O&M plan
- **Optional:** Proportional ESIA
- **Optional:** tender documents

41. The key points to be elaborated in the abovementioned studies are:

- **Financial viability assessment:**

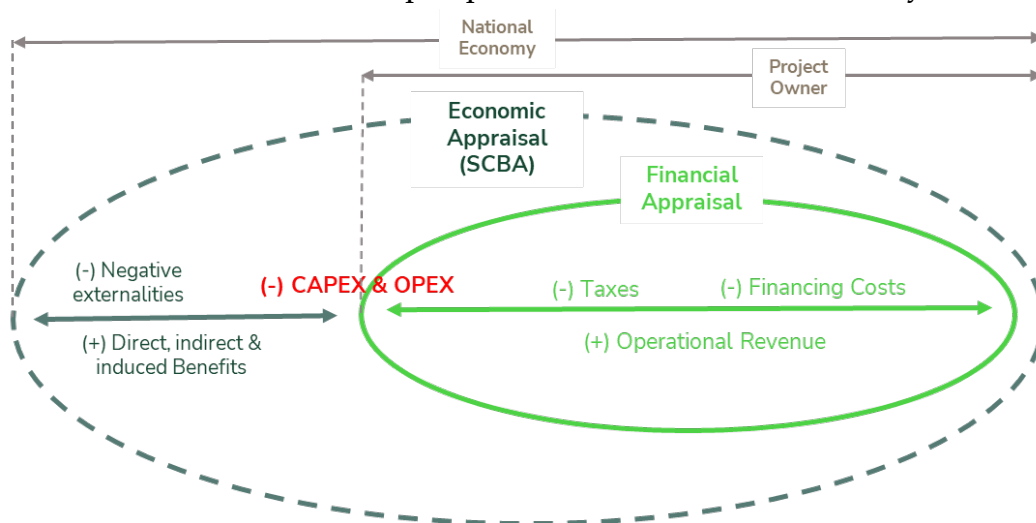
- ❖ Financial viability, which is an analysis of the financing sources and mixes, and the ability – or not – of the Project to sustain its (external) financing.
- ❖ Develop the Business Case based on cash-flow projections with a reasonable level of details of the capital investment (CapEx) and life-cycle costs (OpEx) over a 25 years life cycle period;
- ❖ Any direct financial revenue related to the Project that can be identified should be also factored in the cash flow analysis;
- ❖ In terms of capital investment, modelling the expected reinvestment/replacement of certain initial assets which may be reinvested during the project life-cycle period;
- ❖ Financial sustainability ensuring that necessary O&M expenditure can be met throughout project cycle;
- ❖ Using a purposes-built financial model (based on FAST Standard), the financial viability analysis shall identify the viability of the Project as a stand-alone, on basis of Project's Free Cash Flow (FCF); Free Cash Flow prognosis (FCF) using the Discounted Cash Flow (DCF) method to compute return metrics;
- ❖ Project IRR of the proposed interventions (preferably post-tax cash flows), computed on the basis of the FCF;
- ❖ Identify and substantiate the proposed Weighted Average Cost of Capital – WACC – to be set as the minimum hurdle rate (threshold) for financial viability assessment;
- ❖ Estimation of financial viability gap and expected Viability Gap Funding (VGF); the analysis shall clearly compare the Project metrics without a grant (stand-alone) and the difference with a grant to meet the minimum target;
- ❖ An analysis and mapping of possible financing and funding structures; the Consultant shall consult financiers with experience in funding similar projects in

Lebanon and summarize their willingness and pre-conditions to fund this project;

- ❖ Include modelling of financing costs under different derisking scenarios (e.g., with government guarantees, concessional loans, VGF).
- ❖ Assess impact of risk instruments on WACC and tariff competitiveness.
- ❖ Preliminary mapping and modelling of the possible sources of financing and grant funding in consistency with the proposed WACC;
- ❖ Presentation of detailed Financing Cash Flow projections;
- ❖ Presentation of standard Financial Statements;
- ❖ Sensitivity analyses on the above.

- **Economic viability analysis – Social Cost/Benefit Analysis:**

- ❖ Using a purposes-built Cost/Benefit Analysis (CBA) model (based on FAST Standard), the CBA shall identify the economic costs – costs corrected for shadow pricing - and the direct, indirect and induced incremental economic benefits;
- ❖ The economic viability shall be assessed on the incremental benefits generated by the difference between the Status quo vs. with Project situation and/or the do-minimum vs. Project situation;
- ❖ Prepare a Risk Mitigation Plan, detailing:
 - Recommended policy and financial instruments for Baalbek-Hermel.
 - Cost-benefit analysis of implementing these instruments vs. higher tariffs.
- ❖ To the extent possible, the externality related to CO2 emissions – expressed in tCO2e – shall be identified on an incremental basis. The shadow price of a tCO2e shall be based on the Invest International prescribed price assumptions;
- ❖ Present a comprehensive SCBA methodology, including scenario identification and documented cost and benefits assumptions on basis of which the economic indicators are computed, namely the Economic IRR (EIRR) compared with the Social Discount Rate, Economic NPV (ENPV) and BCR (Benefits/Cost Ratio);
- ❖ The economic appraisal shall be clearly distinct from the financial appraisal; the financial appraisal focuses on the costs and revenues of the project (from the perspective of the project owner), whilst the economic appraisal takes a broader perspective and also includes the negative externalities and the (in)direct benefits to the national economy and society, triggered by the project. See visualization below for the difference of perspective between these two analyses.



- ❖ The SCBA should identify, map and quantify the economic benefits and externalities generated by the implementation of the Project;
- ❖ The SCBA shall present and explain the source of the Social Discount Rate (the SDR);
- ❖ The SCBA shall present and explain the Without Project situation;
- ❖ The SCBA shall present and explain the With Project situation;
- ❖ Mapping and description of economic benefits and externalities, including qualitative delineation and substantiation of the derived benefits and externalities, followed by quantification and monetization of the benefits and externalities. Quantification and monetization of Green House Gases (GHG) emissions is a critical component of the benefits (or costs);
- ❖ Listing and correction of economic costs, including the CapEx and OpEx derived from the financial analysis and where relevant, corrected by shadow prices to determine the economic costs (investments and life-cycle costs);
- ❖ Additional costs required to execute the Project, irrespective of which party bears these costs, must be factored in the SCBA; these may include costs of land acquisition, resettlement costs and compensation, etc.
- ❖ The SCBA shall be computed in real terms (without inflation) and exclude taxation, financing costs and non-technical contingencies. The choice of currency of analysis shall be explained in the methodology (USD/EUR vs. local currency);
- ❖ The analysis shall avoid double-counting of cost or benefits (neutral vs. incremental costs and benefits);
- ❖ A sensitivity analysis shall be included (including switching values) with a short analysis of the observed outcome, and provide guidance on the main risks and challenges in realizing the expected EIRR.

- **Procurement analysis:**

- ❖ Procurement strategy report; recommended procurement route(s) that incorporate risk transfer (e.g. EPC, PPP with sovereign guarantees, EPCM, separate BESS/C&I, battery-as-a-service, O&M contract), rationale, pros/cons, risk allocation matrix;
- ❖ Market assessment; short-list of international and regional manufacturers and EPCs for PV, BESS, PCS/inverters, transformers, mounting, civil works; summary of capabilities, lead times, commercial terms and bankability considerations;
- ❖ Technical procurement specifications; high-level specs for major packages: PV modules, inverters, BESS (cells/modules, battery management system, PCS), transformers, switchgear, SCADA, civil/structural and balance-of-plant;
- ❖ Cost estimate and price benchmarking; class 3/4 (order of magnitude to budgetary) cost build-up for equipment, installation, grid connection, land works, contingency and escalation assumptions;
- ❖ Lead-time and critical path analysis; manufacturer lead times, long-lead items, procurement schedule and impacts on EPC timeline;
- ❖ Procurement risk register; identified procurement risks with mitigation measures and suggested contract clauses;
- ❖ Bill of Quantities (BoQ) / equipment list; line items for major equipment and quantities to be used in tender documents;
- ❖ Recommended commercial terms based on the recommended procurement route(s).

- **Implementation and O&M plan:**

- ❖ Implementation program; detailed schedule (GANTT) showing procurement, site works, installation, testing, commissioning and handover milestones; resource and manpower profile for peak activities;
- ❖ Construction methodology; sequencing, temporary works, site access, traffic management, materials handling, civil and electrical installation methods including BESS specific installation and commissioning procedures.
- ❖ Health, Safety and Environmental (HSE) plan; site HSE rules, emergency procedures, battery-specific safety measures, PPE requirements, permit-to-work, fire suppression and spill response.
- ❖ Quality assurance / quality control (QA/QC) plan; inspection and test plans (ITPs) for civil, electrical, PV and BESS; hold points; factory acceptance test (FAT) and site acceptance test (SAT) criteria.
- ❖ Commissioning plan; step-by-step commissioning protocol for PV arrays, inverters, transformers, BESS (Charge/Discharge profile tests, SoC/SoH baseline,

protection settings, black start / islanding tests), SCADA integration and grid tests.

- ❖ Operations & Maintenance (O&M) plan; preventive and corrective maintenance schedules, spare parts list and stocking strategy, condition monitoring plan, performance monitoring KPIs, degradation management (PV and battery), remote monitoring and cybersecurity measures.
- ❖ Staffing and training plan; proposed organization chart, staffing numbers, roles and responsibilities during construction and operation, training curriculum and handover of O&M manuals.
- ❖ Lifecycle and end-of-life considerations; battery replacement strategy, recycling/disposal approach, residual value assumptions.
- ❖ Costed O&M budget; annual O&M cost breakdown (labor, spares, services, scheduled major overhauls) for first 10 years.

- **Optional: Tender Documents:**

Based on the outcomes of the Procurement Analysis deliverable, the Consultant shall develop the tender documents through the following either Set 1 or Set 2:

Set 1 – EPC Model:

- ❖ Tender instruction and evaluation criteria; procurement rules, prequalification requirements, scoring matrix (technical, commercial, financial), minimum experience and financial thresholds;
- ❖ Bidding documents; Invitation to Tender, Instructions to Bidders, Scope of Work, Deliverables, Timeline, Bid Forms, Bid Security template, Price Schedules (Excel);
- ❖ Draft contract(s); draft EPC and draft O&M contracts with technical annexes, scope of work, payment terms, performance guarantees, warranties, liquidated damages, delay mechanisms, acceptance tests, retention, force majeure and termination clauses;
- ❖ Technical specification and works scope; complete technical specs, drawings, detailed BOQ, performance guarantees (PR, availability, round-trip efficiency for storage), testing and acceptance criteria, interface and responsibility matrix;
- ❖ Commercial schedules; baseline commercial assumptions, escalation indices, currency, payment milestones, tax and duties allocation;
- ❖ Evaluation tools; bid comparison model (Excel) that calculates levelized cost metrics, net present cost, lifecycle O&M, and evaluates compliance to technical thresholds;
- ❖ Contract administration annexes; sample as-built documentation requirements, handover checklist, spare parts list, training deliverables, warranty claim procedure.

Set 2 – IPP Model:

- ❖ Tender instruction and evaluation criteria; procurement rules, prequalification requirements, scoring matrix (technical, commercial, financial), minimum experience and financial thresholds;
- ❖ Bidding documents; Invitation to Tender, Instructions to Bidders, Scope of Work, Deliverables, Timeline, Bid Forms, Bid Security template, Price Schedules (Excel);
- ❖ Evaluation tools; bid comparison model (Excel) that calculates levelized cost metrics, net present cost, lifecycle O&M, and evaluates compliance to technical thresholds;
- ❖ Draft PPAs with standardized risk-sharing and bankability provisions.

- ❖ PPA Schedules templates including but not limited to Conditions Precedent, COD criteria, T&C, Calculation of Payment, Requirements for Invoices, Form of Development Bond, Form of Performance Bond, Termination Pricing, Form of LC, and Requirements for Insurance.

- **Optional: Proportional ESIA:**

- ❖ The ESIA should follow the Lebanese EIA Decree 8633/2012 (see Annex 3) and the IFC Performance Standards;
- ❖ Mitigation measures; The ESIA should identify measures needed to prevent, reduce and eliminate as fully as possible any significant adverse effects of the project interventions under consideration;
- ❖ Assessment framework; For further developing and comparing the (packages of) project interventions and associated measures, an assessment framework is needed: which environmental, social and economic effects and criteria are relevant and which indicators can be used to assess the different project intervention packages (and the associated measures) against those criteria. It is important to identify 'significant' effects and (measurable) indicators, taking different stakeholders in the area into account;
- ❖ Stakeholder consultations; the following stakeholders should be consulted: official agencies, NGOs, and groups affected by the project. The minutes from dialogue, stakeholder consultation meetings and public hearings are attached to the ESIA; Address social acceptance risk and political risk mitigation through transparent consultation and governance measures.
- ❖ After completion, the Consultant shall submit the ESIA to the Ministry of Environment (MoE).

42. It should be noted that the development of a Solar PV + BESS plant goes beyond the system alone. The final design should also include necessary infrastructural measures to connect the plant to the national grid. However, potential investments to the national grid itself are excluded.

43. The consultant shall be responsible for all aspects of the study including but not limited to the aforementioned studies and documents.

E. Deliverables, timeframe and location

1- Deliverables

The consultant is required to submit the following deliverables (in draft version and final version):

- Financial viability analysis;
- Economic viability analysis;
- Procurement analysis;
- Implementation and O&M plan;
- **Optional:** Tender documents.
- **Optional:** Proportional ESIA;

The reports shall have a clear and concise executive summary (of maximum 5 pages) and a maximum of 50 pages. Clear structure, comprehensiveness and readability of the reports are major requirements. Detailed analyses, tables, maps and drawings shall be included as annexes.

All deliverables should be submitted in both hardcopy (one original and one copy) and softcopy in English.

2 Timeframe

The assignment is expected to be completed within six months from contract signature.

Table 1: Deliverables

Deliverables:	Due Date from Contract Signature:
Financial viability analysis Economic viability analysis	Up to 3 Months
Procurement analysis	Up to 3 Months
Implementation and O&M plan	Up to 6 Months
Optional Deliverables:	
Proportional ESIA	Up to 6 Months
Tender documents	Up to 6 Months

3 Location

The assignment will be conducted mainly at the premises of the Consultant. A number of missions are required to Lebanon in case of a Consultant whose office is located outside the country. If the consultant(s) is located outside of Lebanon, a local office/address shall be assigned for them in Beirut. The minimum suggested missions shall be upon completion of each deliverable

The consultant should specify the missions to Lebanon in the technical proposal and include the incidental expenditures related to the missions in the financial proposal.

4 Submission and approval of the reports

A digital and hard copy of the above deliverables has to be submitted to LCEC. A digital copy of the above deliverables has to be submitted to Invest International. The report must be written in English. The detailed ESIA should be written in English and Arabic and be submitted to the Ministry of Environment for approval.

F. Instructions to Bidders

44. The deadline for submission of proposals is set in Paragraph B “Important Notes”. All proposals received after the mentioned date and time will be rejected.
45. Proposals must be delivered to the LCEC offices at the following address: Ministry of Energy and Water (MEW), Corniche du Fleuve, 1st Floor, Room 303, Beirut- Lebanon. Proposals may be hand delivered or sent by courier to the mentioned address.
46. The bidder will submit its proposal in two parts. The first part will contain the entire proposal except the financial proposal. The second part will contain only the financial proposal.
47. The bidder shall prepare **one (1)** copy of the proposal. This copy shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. The latter authorization shall be indicated by written power-of-attorney accompanying the proposal.
48. A proposal shall contain no interlineations, erasures, or overwriting except, as necessary to correct errors made by the bidder, in which case such corrections shall be initiated by the person or persons signing the proposal.
49. The bidder shall submit a USB containing a digital copy of the entire proposal (except the financial offer) as one **searchable** document in PDF format. The USB must be clearly marked to indicate the name of the bidder and the statement “Proposal for Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon”.
50. The bidder shall seal the proposal in one outer envelope including 2 inner envelopes and the USB as detailed below.
51. The back of the outer envelope shall be clearly marked with “Proposal for Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon” as well as the name of the bidder. The outer envelope shall be addressed to: “Lebanese Center for Energy Conservation (LCEC), Ministry of Energy and Water (MEW), Corniche du Fleuve, 1st Floor, Room 303, Beirut- Lebanon, phone: 00961 1 569101”.

52. The two (2) inner envelopes must be sealed.
53. One (1) of the inner envelopes shall contain all the information specified in the RFP except the financial offer. This envelope must be marked on its back with “Operational and Technical Proposal”. The operational and technical part of the proposal should not contain any pricing information whatsoever on the services offered.
54. The other inner envelope shall contain the financial offer for the project. This envelope must be marked on its back with “Financial Offer”.
55. If any of the envelopes are not sealed and marked as required, LCEC will assume no responsibility for the misplacement of the proposal or its premature opening.
56. The envelopes must contain the original signature in indelible ink and will be signed by a person duly authorized to sign on behalf of the bidder.
57. Failure of the bidder to abide by the requirements of this section might lead to the rejection of the proposal.
58. The operational and technical proposal must **clearly** include five (5) sub-sections: the official and administrative signed papers, the management and resource plan, the team composition and tasks assignment, the proposed methodology section, and a detailed list of milestones including project activities.
59. The official and administrative signed papers sub-section should include all the official papers of the bidder, especially those papers needed for the qualification stage described later on. This sub-section should also include all the needed forms mentioned in Section M. Forms.
60. The management and resource plan section should provide corporate orientation to include the year and state/country of incorporation and a brief description of the bidder’s present activities. It should focus on services related to the proposal.
61. The management and resource plan section should also describe the organizational unit(s) that will become responsible for the contract in this **specific project**, and the general management approach towards **this project**. The bidder should comment on its experience

in similar projects and identify the person(s) representing the bidder in any future dealing with the LCEC.

62. The management and resource plan section should fully explain the bidder's resources in terms of personnel and facilities necessary for the performance of this requirement. It should describe the bidder's current capabilities/facilities and any plans for their expansion.
63. The proposed methodology section should demonstrate the bidder's responsiveness to the specifications by identifying the specific milestones proposed, addressing the requirements, as specified, point by point; and demonstrating how the proposed methodology meets or exceeds the specifications.
64. It is mandatory that the proposal numbering system corresponds with the numbering system used in the body of this RFP. All references to descriptive material and brochures should be included in the appropriate response paragraph, though material/documents themselves may be provided as annexes to the proposal/response.
65. The team composition and task assignment section should include the CV's of the key personnel and their key qualifications, as well as the assignment(s) dedicated to each of the personnel.
66. The bid must include a clear detailed list of milestones including project activities and man-days needed for each activity. The list of milestones shall be included in the operational and technical proposal without any pricing.
67. The same detailed list of milestones including project activities shall be included in the financial offer envelope including the pricing.

G. General Organization of the Submittal

68. In the scoring stage of the proposals, 60 points will be given on the formatting, organization and visual clarity of the submittal.
69. The forms submitted by the bidder shall be in conformance with the provided sample forms (Form 1 to Form 13). Any alternate form/text in any of the forms would result in the rejection of the bid.
70. All forms must be signed and stamped.
71. The proposal must be prepared and organized as per the order of documents provided below.
72. Only necessary documents must be provided.
73. Irrelevant documents will negatively affect the evaluation of the proposals.
74. The technical proposal must include five (5) sub-sections. Each sub-section must be referred to by a file separator.
75. The five (5) sub-sections are the following: the official and administrative signed papers, the management and resource plan, the team composition and tasks assignment, the proposed methodology section, and a detailed list of milestones including project activities.
76. **Section 1- The Official and Administrative Signed Papers: Forms 1, 2, 3, 4, 5 and 7** must be included in addition to the power of attorney if applicable, articles of incorporation or equivalent, documents of registration and other documents as stated in section I (Qualification Criteria- Stage 1) below.
77. **Section 2- The Management and Resource Plan: Forms 6 and 8** must be included in addition to the upcoming consultancy projects, company profile and bidder's resources, organizational unit with organizational chart of the team involved in this specific project and other information and details as stated in section I (Qualification Criteria- Stage 1) below.

78. **Section 3- The Team Composition and Tasks Assignment: Forms 9, 10, 11 and 12** must be included in addition to other information and details as stated in section I (Qualification Criteria- Stage 1) below.
79. **Section 4- The Proposed Methodology Section:** This section must include all needed information as stated in section I (Qualification Criteria- Stage 1) below including the timeline of the project, the organizational chart for each company, the organizational chart for the joint venture (if applicable), the detailed description of the studies to be made, the detailed description of steps to be taken to complete the studies.
80. **Section 5- Detailed List of Milestones Including Project Activities:** This section should clearly include all the milestones in the project including each section and subsection of the study and proposed workshops without any pricing. Any price mentioned in this section may lead to the disqualification of the bidder. **Form 13** shall be used in the technical proposal under this section without pricing.
81. A letter of commitment stating that the bidder commits to this RFP, its addendums and clarifications, should be attached, signed, and stamped at the end of the proposal.

H. Evaluation Process and Scoring Method

82. A four-stage procedure is utilized in evaluating the proposals, with evaluation of the technical proposal being completed prior to any price proposal being opened and compared.

83. The proposal will undergo a four-stage evaluation:

a- Stage 1: Administrative and Technical Qualification (Pass/Fail);

b- Stage 2: Capability and Technical Scoring;

c- Stage 3: Financial Offer Comparison;

d- Stage 4: Negotiation.

84. In case the winning bidder does not sign the contract within 30 days of the announcement of the award, then the LCEC reserves the right to disqualify the winning bidder and choose the next bidder. The disqualified bidder will forfeit the bid deposit.

85. Stage 1 evaluation will be based on the qualification criteria described in the following section here below. The evaluation committee will reject proposals that do not meet all the qualification criteria in stage 1.

86. All proposals that pass stage 1 evaluation will be scored in stage 2 based on the capability and technical scoring. At this stage, the financial proposal will not be opened. Companies that score 650 or higher out of a score of 1000 (technical score, S_t) will be chosen to move to stage 3.

87. In stage 3, the financial proposal of the bidders selected in stage 2 will be opened and subsequently compared.

88. If the financial offer submitted is higher than 126,000 euros, the bidder will be disqualified automatically.

89. The formula for determining the financial scores is the following:

$$S_f = 1000 \times F_m/F,$$

in which S_f is the financial score,

F_m is the lowest price

and F the price of the proposal under consideration.

90. The Total Score for each proposal will be calculated independently by formula:

$$TS = St \times 0.85 + Sf \times 0.15$$

TS - is the total score of the proposal under consideration;

St - is technical score of the proposal under consideration;

Sf - is financial score of the proposal under consideration.

91. The bidder with the highest Total Score (TS) will be selected to proceed to signing of the contract.

92. The evaluation committee to be assigned by the LCEC will use the mentioned scoring method. It reserves the right to change, modify or enhance the evaluation criteria and the scoring method. Full scores will be given only if all the requested information is provided.

93. The evaluation committee reserves the right to disqualify bidders that provide conflicting, contradictory, implausible (technical data or calculation) or in any other way misleading information.

94. The LCEC reserves the right to negotiate the proposed financial offer with the selected bidder before signing the contract if there are some ambiguities in the proposal which need to be clarified or in case if there are some changes in the scope of work.

I. Qualification Criteria- Stage 1

95. All bids must meet all the following qualification criteria (items 97 to 120 below). Compliance with all the qualification criteria is mandatory. If any one of all the requested mandatory qualification criteria (and sub-criteria) is not met by the bid, then the whole bid will be rejected (PASS/FAIL).
96. The proposal must **clearly** include five (5) sub-sections: the official and administrative signed papers, the management and resource plan, the team composition and tasks assignment, the proposed methodology section, and a detailed list of milestones including project activities.
97. All forms mentioned in Section M. Forms, should be clearly filled, signed, and stamped.
98. The forms submitted by the bidder shall be in conformance with the provided sample forms (Form 1 to Form 13). Any alternate form/text in any of the forms would result in the rejection of the bid.
99. The signed application form should be clearly filled, signed, and stamped.
100. The joint venture agreement (if needed) should be clearly filled, signed, and stamped by each and every joint venture member.
101. The power of attorney (notarized) should be provided, signed, and stamped. The power of attorney should authorize the person signing the application form or each of the persons signing the joint venture agreement (when applicable) to act as a representative (or representatives) on behalf of the bidder (or joint venture members) to submit the proposal.
102. The bidder's commercial registration (or equal) should be provided, signed, and stamped.
103. The proposal bid must include a clear detailed list of milestones including project activities. The list of milestones including project activities shall be included in the technical proposal without any pricing.

104. General company eligibility: the bidding consortium (bidding company and its joint venture partners) shall fill all the requirements in the Applicant(s) Information Form, and submit all the required documentation related to eligibility.
105. The Applicant and its parties shall provide copies of financial statements for the last 3 years. The financial statements shall: (a) reflect the financial situation of the Applicant (or parent) or in case of JV the members, (b) be independently audited or certified in accordance with local legislation, (c) be complete, including all notes to the financial statements, (d) correspond to accounting periods already completed and audited.
106. Financial capability: the bidder (or, in case of a joint venture, at least one of the joint venture members) shall have revenue (turnover) of at least 300,000 Euros per year.
107. Past performance: the bidder (or, in case of a joint venture, at least one of the joint venture members) shall have at least 200 MWp + 600 MWh of utility scale solar + storage projects consultancy services that reached financial closure starting January 2016.
108. Team leader: the bidder shall assign a team leader with at least 15 years of experience in the energy sector, minimum 10 of them in Solar PV + BESS projects.
109. Team Members: the bidder shall have a professional and qualified team, including a team leader and renewable energy engineer, an electrical engineer, an institutional expert, an environmental and social specialist, and a financial and economic expert.
110. The five key experts mentioned in the previous point shall be international experts or experts with international expertise.
111. The key experts cannot submit to the bid under multiple companies, and should be committed to the company that they are applying with the whole period of the contract.
112. Each expert shall fill the commitment letter in **Form 12** that shall be duly signed.
113. Proposals from bidders shall include official letters from the aforementioned experts stating that he/she is committed to the bidder throughout the process until the submission of the final deliverable required (but not to exceed 3 years from the date of the submittal of the proposal). Bidders that do not meet this criterion will be disqualified.

114. The bidder shall propose a number of local non-key experts (such as local renewable energy and/or solar engineer, local legal expert...). The roles that will be locally filled should be listed in the proposal, while the personnel can be assigned to the roles after the contract signature.
115. Project completion date: the completion date for the project must not exceed 6 months following contract signature
116. Capacity of the project: the proposal shall include a feasibility study for a at least 175 MWp Solar PV plant in Baalbek-Hermel, Lebanon with 550 MWh hours of storage.
117. Location of the Plant: the bidding consortium shall study available places at Baalbek-Hermel, Lebanon.
118. The proposed methodology section should include the following minimum information:
- a. Timeline/project schedule;
 - b. Organizational chart for each company;
 - c. Organizational chart for the joint venture (if applicable);
 - d. Detailed description of the studies to be made;
 - e. Detailed description of steps to be taken to complete the studies;
 - f. Clear statement of the expected outputs of each study;
 - g. List of technical, regulatory, financial, and economic assumptions; identification of constraints and how they will be managed;
 - h. List of data sources and data quality controls;
 - i. Software, engineering standards, and codes to be followed, and validation approach;
 - j. Interfaces and coordination plan; frequency and format of coordination with identified stakeholders;
119. The LCEC reserves the right to add, modify, or delete criteria to or from this qualification list for any reason at its own discretion.

J. Technical Scoring- Stage 2

120. Only proposals that will pass Stage 1 evaluation will be evaluated in the Technical Scoring- Stage 2.
121. The technical scoring is over 1000.
122. Following this evaluation, each company will have one technical score (St). Companies that score 650 or higher will be selected to move to stage 3.
123. If the number of proposals that possess a score of 650 or higher is less than 3, then the top three proposals will be selected to move to stage 3 regardless of the scores.
124. The technical score of 1000 will cover three (3) aspects:

Evaluation	Maximum Obtainable Points
a) Management and resource plan	250 points
b) Team composition and tasks assignment	450 points
c) Methodology	300 points
Total	1000 points

a) Management and Resource Plan				
Ref.	Item	Max. Score	Criteria	Score
1	Formatting, Organization, and Visual Clarity of the Submittal	60	Weak	0
			Fair	20
			Good	40
			Excellent	60
3	Yearly Average Total Revenues of the Last Three years *In case of a JV, the average revenues will be considered	50	300,000 to 650,000 Euros	15
			650,000 to 1,000,000 Euros	30
			More than 1,000,000 Euros	50

4	<p>Current Activities in the Solar Market</p> <p>*Based on the Solar Energy Experience form.</p> <p>*In case of JV, the total experience of JV members will be considered</p> <p>*Current activities are undergoing activities that have not been finalized yet as of the deadline of submission of this bid</p> <p>*Based on previously completed consultancy projects</p>	30	Bidders ranked among the least 30% of the total number of qualified bidders in size of current activities	0
			Bidders ranked between the top 30% and the least 30% of the total number of qualified bidders	15
			Bidders ranked among the top 30% of the total number of qualified bidders in size of current activities	30
5	<p>Previous Experience in the Solar Market (Capacity of completed projects in previous consultancy and implementation contracts in MWp)</p> <p>*Based on the Solar Energy Experience form.</p> <p>*In case of JV, the total experience of JV members will be considered</p> <p>*Previous activities are activities finalized before the deadline of submission of this bid</p> <p>*Based on previously completed consultancy projects</p>	50	Less than 200 MWp	0
			200 to 500 MWp	25
			More than 500 MWp	50
6	<p>Previous Experience in the Lebanese Solar Market (Capacity of completed projects in previous consultancy and implementation contracts in Lebanon in MWp)</p> <p>*Based on the Solar Energy Experience form.</p> <p>*In case of JV, the total experience of JV members will be considered</p> <p>*Previous activities are activities finalized before the deadline of submission of this bid only in the Lebanese market</p> <p>*Based on previously completed consultancy projects in Lebanon</p>	30	Bidders ranked among the least 30% of the total number of qualified bidders in size of previous activities in Lebanon	0
			Bidders ranked between the top 30%	15

			and the least 30% of the total number of qualified bidders	
			Bidders ranked among the top 30% of the total number of qualified bidders in size of previous activities in Lebanon	30
7	List of Detailed Milestones	30	Not Provided	0
			Provided	30
	Maximum Obtainable Score	250		

b) Team and Tasks				
Ref.	Item	Max. Score	Criteria	Score
1	Team Leader and Renewable Energy Engineer- Total Years of Experience * In case of multiple team leaders involved, the average years of experience will be considered	30	less than 15 years	0
			15-20 years	15
			More than 20 years	30
2	Team Leader and Renewable Energy Engineer- Years of Experience in the Utility Scale Solar PV+BESS Industry * In case of multiple team leaders involved, the average years of experience will be considered	40	Less than 10 years	0
			10 to 15 years	20
			More than 15 years	40
3	Electrical Engineer- Years of Experience in the Design of High and Medium Voltage Installations * Experience in Lebanon and MENA region	30	less than 15 years	0
			15-20 years	15
			More than 20 years	30

4	Electrical Engineer- Years of Experience with Utility Scale Renewable Energy Installations * Experience in Lebanon and MENA region	30	less than 10 years	0
			10-15 years	15
			More than 15 years	30
5	Legal Expert- Years of Experience in Renewable Energy Legal and Contractual Activities * Experience in Lebanon and MENA region	40	less than 10 years	0
			10-15 years	20
			More than 15 years	40
6	Environmental and Social Specialist- Years of Experience in Managing and Conducting ESIA's for Renewable Energy Projects * Experience in Lebanon and MENA region * Experience according to international standards	30	less than 10 years	0
			10-15 years	15
			More than 15 years	30
7	Financial Expert- Years of Experience in Green Energy Financing	40	less than 15 years	0
			15-20 years	20
			More than 20 years	40
8	Economic Expert Years of Experience in Economic Analysis of Utility Scale Renewable Energy Projects	40	Less than 10 years	0
			10-15 years	20
			More than 15 years	40
9	Technical and Managerial Staff Involved in the Project	30	Less than 8	0
			8 to 11	15
			More than 11	30
9	Overall Evaluation of the CV's of Team Members	40	Weak	0
			Fair	10

			Good	20
			Excellent	30
			Outstanding	40
10	Distribution of Tasks Assignment	50	Weak	0
			Fair	15
			Good	30
			Excellent	40
			Outstanding	50
	Maximum Obtainable Score	450	Totals	

c) Methodology				
Ref.	Item	Max. Score	Criteria	Score
1	Quality/Type of sub-studies proposed for each deliverable	40	Bidders ranked among the least 30% of the total number of qualified bidders: providing the lowest number of relevant studies	10
			Bidders ranked between the top 30% and the least 30% of the total number of qualified bidders	20
			Bidders ranked among the top 30% of the total number of qualified bidders: providing the highest number of relevant studies	40
2	Description of Studies, Description of Steps to Complete the Studies, Statement of Expected Outputs from Each Study	50	Bidders ranked among the least 30% of the total number of qualified bidders:	10

			providing the lowest number of proposed storage types under study	
			Bidders ranked between the top 30% and the least 30% of the total number of qualified bidders	30
			Bidders ranked among the top 30% of the total number of qualified bidders: providing the highest number of proposed storage types under study	50
3	Committed Study Time	40	Between 5 and 6 months	15
			Between 4 and 5 months	40
	List of Data Sources, Data Quality Controls, Software, Engineering Standards, Codes, and Validation Approach	50	General	0
			Detailed	50
5	List of Technical, Regulatory, Financial, and Economic Assumptions.	50	Weak	10
			Good	30
			Excellent	50
6	Identification and Constraints Management	35	Weak	10
			Good	20
			Excellent	35
7	Coordination Plan	35	Weak	10
			Good	20
			Excellent	35
	Maximum Obtainable Score	300	Totals	

125. The LCEC reserves the right to add, modify, or delete criteria to or from this qualification list for any reason at its own discretion.

126. The LCEC also reserves the right to change the weight associated to the different criteria for any reason at its own discretion.

K. General Terms and Conditions

127. Successful bidder will sign the contract agreement with the LCEC.
128. Proposal must be submitted as per the contents of this RFP using the forms shown in the forms section.
129. The consultant (successful bidder) shall inform the LCEC as soon as a deviation takes place in the planning or described in the submitted tender documents and postpones any tender activities until the LCEC has decided whether a Statement of no objection is required for the change.
130. Cost of proposal: the bidder shall bear all costs associated with the preparation and submission of the proposal. The LCEC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the RFP. All documents submitted in response to this RFP will become the property of LCEC.
131. The application, as well as all correspondence and documents relating to the RFP shall be written in the English language. Supporting documents and printed literature that are part of the application may be in another language, provided they are accompanied by an accurate official translation of the relevant passages into the English language, in which case, for purposes of interpretation of the application, the translation shall govern.
132. Confidentiality of Proposal: information relating to the evaluation of proposals shall not be disclosed to bidders or any other persons not officially concerned with such process until the notification of selection is made to all bidders.
133. Evaluators will read printed copy of proposal. All evaluators may not have access to the internet, therefore it is recommended to not include URLs, hyperlinks or other forms of internet-based content in the proposal.
134. Clarification of Proposal: to assist in the evaluation of proposal, LCEC may, at its discretion, ask any bidder for a clarification of its proposal which shall be submitted within a stated reasonable period of time. Any request for clarification and all clarifications shall be in writing. If a bidder does not provide clarifications of the

information requested by the date and time set in the request for clarification, its proposal may be rejected.

135. Proposal must offer services for the total requirements of the RFP. Proposals offering only part of the requirements will be rejected.
136. The bidder is expected to examine all corresponding instructions, forms, terms and specifications contained in the RFP. Failure to comply with these documents will be at the bidder's risk and may affect the evaluation of the proposal. Any proposal which is not responsive to the requirements of the RFP may be rejected.
137. Reservation of Rights: LCEC reserves the right to:
 - a) Modify or withdraw from the RFP, or modify the provisions contained in the RFP, for any reason;
 - b) Select zero, one, or multiple bid proposal(s) in response to this RFP in order to enter into negotiations or execute an agreement;
 - c) Award contract to bidder(s) based on some or all criteria in this RFP, or post-bid negotiations;
 - d) Waive any material or immaterial non-conformity in any bid received
 - e) Reject parts of bid or entire bid for any reason;
138. By submitting the proposal, bidder agrees that the terms in the proposal shall remain irrevocable for 210 days after the due date of the proposal.
139. The companies may ask for debriefing during 3 days after receiving of appropriate notification concerning the bid's result.
140. A prospective bidder requiring any clarification of the RFP may notify LCEC in writing at the mailing address indicated in the RFP. LCEC will respond in writing to any request for clarification of the RFP that it receives earlier than one week prior to the deadline for the submission of proposals. Written copies of LCEC response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective bidders that have received the RFP.
141. At any time prior to the deadline for submission of proposals, LCEC may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective

bidder, modify the RFP by amendment. All prospective bidders that have received the RFP will be notified in writing of all amendments to the RFP.

142. In order to afford prospective bidders reasonable time in which to take the amendments into account in preparing their offers, LCEC may, at its discretion, extend the deadline for the submission of proposals.
143. Performance bond: according to the Lebanese laws and regulations (performance bonds, taxes, duties, stamp fees). However, the bidder shall be forfeited the performance bond for non-compliance—inability to successfully commission and put into production the entire project in the proposed timeframe. Putting the solar station into production means successfully delivering continuous operation for a period of 30 days and successfully delivering minimum units of electricity (based on solar availability) for a period of 30 days.
144. The bidding consortium may be a firm that is a private entity or any combination of such entities in the form of a Joint Venture (JV) under an existing agreement supported by the JV form attached to this RFP. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the contract in accordance with the contract terms. The JV shall nominate a representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the bidding process and, in the event the JV is awarded the contract, during contract execution. There is no limit on the number of members in a JV.
145. The bidder shall indicate on an appropriate price schedule for the services it proposes to supply under the contract.
146. The price of the current contract is divided into three main payments. The three payments are labeled as: advance payment, progress payments, and final payment. The bidder's total remuneration shall include all staff costs, subcontractor's (if any) costs, printing, communications, travel, accommodation, and the like, and all other costs incurred by the bidder in carrying out the services.
147. A minimum of 5 travels to Lebanon for all 5 key experts mentioned in the technical specifications book is required and should be accounted for in the pricing.

148. LCEC shall effect payments to the winning bidder after acceptance by LCEC of the invoices submitted by the contractor, upon achievement of the corresponding milestones of the project. Payments will be effected in Euros.
149. The bidder may withdraw its proposal after the proposal's submission, provided that written notice of the withdrawal is received by LCEC prior to the deadline prescribed for submission of proposals. The bidder's withdrawal notice shall be prepared, sealed, marked, and sent by hand or fax but followed by a signed confirmation copy.
150. No proposal may be modified subsequent to the deadline for submission of proposals.
151. To assist in the examination, evaluation and comparison of proposals, the LCEC may at its discretion, ask the bidder for clarification of its proposal. The request for clarification and the response shall be in writing and consequently no change in price or substance of the proposal shall be sought, offered or permitted.

L. Miscellaneous Terms and Conditions

152. Corrupt and Fraudulent Practices: Anticorruption Policy requires bidders, suppliers, and contractors to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy the organization defines, for the purposes of this provision, the terms set forth below as follows:

- a) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
- b) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- c) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- d) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

153. LCEC will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, agents, sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive practices, or any illegal practice in competing for the Contract in question.

154. The bidders as well as its personnel, agents, sub-consultants, sub-contractors, service providers, suppliers and/or their employees will observe the OECD Guidelines for Multinational Enterprises.

155. The consultant shall cooperate in audits and provide the following information:

- Information about circumstances that cause or might cause delays in implementing the D2B-project and other circumstances that prevent or might prevent the consultant from fulfilling its duties under this contract;
- Information on the following situations or the threat of these: moratorium on the payment of debts, deficits, fraud, bribery;

- Information about changes in the implementation of the activities as described in contracts.
156. The consultant is responsible for maintaining sound management procedures and keeping proper accounts for the project.
157. The LCEC may assess at any time individual outputs of the contract, whether in respect of an inspection or audit or otherwise, in order to decide whether to continue, reduce, suspend, terminate and/or reclaim this contract.
158. The LCEC may assess, and/or seek expert opinions, to check the soundness or accuracy of any conclusion, calculation, estimation and/or statement made as part of individual outputs.
159. Derogations from the contract and the appendices will only become effective in so far as they have been expressly accepted between the signatories.
160. This contract and its annexes can only be amended with addenda, which become effective when printed on official writing paper and are duly signed by the representatives of the signatories.
161. Substantial changes in the implementation of the activities as described in the Technical Specifications Book can only be implemented after a statement of no objection from the LCEC.
162. Substantial changes in the implementation of the activities as described in the contracts, are only admissible with a statement of no objection from the LCEC.
163. The LCEC can: require an independent opinion on the changes; require suspension of the implementation until its statement of no objection; withhold payment of the next instalment until its statement of no objection.
164. The LCEC may ex parte/unilaterally reduce or terminate the contract, but only after consultation with the consultant:
- If the Invest International is of the opinion that the specific way in which the D2B-project is implemented or a change of circumstances has led to a situation in which the

financing of the D2B-project is incompatible with the Dutch government's foreign policy;

- In the event of unforeseen circumstances or events, including i) failure to arrange the necessary licenses, ii) a change of government policy, iii) an amendment to the applicable legislation, iv) non-compliance with the Policy Rules, or v) decreasing financial viability that cause the implementation of the D2B-project Plan and/or the D2B-project to be seriously hampered or delayed or to become unfeasible;
- If the consultant fails to fulfill its duties under this contract, or fails to do so on time, or uses the resources for a purpose other than that for which the Grant was made available, or if a third party has provided co-financing for the same activities without the Invest International's prior knowledge and consent.

165. This grant will end for either of the following reasons:

- All duties of the Signatories under this contract have been fulfilled to the satisfaction of the other Signatory;
- The Grant has been prematurely terminated and/or reclaimed and accounts have been settled.

166. If any organization to be engaged in the Project is listed on the publicly available debarment list of the following international financial institutions: World Bank Group, African Development Bank, Asian Development Bank, European Bank for Reconstruction and Development and the Inter-American Development Bank. This organization will be excluded from involvement, or further involvement, in the project.

167. The consultant will disclose whether anyone acting on its behalf or on behalf of the agents, consultants and/or contractors in connection with the project is currently under charge in a national court or, within a five-year period preceding the Application, has been convicted in a national court, or been subject to equivalent national administrative measures for violation of laws against bribery of public officials of any country.

168. The consultant will disclose, upon demand: i) the identity of persons acting on its behalf or on behalf of the agents, consultants and/or contractors in connection with the Project, and ii) the amount and purpose of commissions and fees paid, or agreed to be paid, to such persons.

169. The LCEC may decide to carry out enhanced due diligence if: i) any organization engaged in the Project appears on the publicly available debarment lists of one of the international

financial institutions referred to in point 172 above; or ii) the LCEC becomes aware that anyone acting on behalf of the agents, consultants and/or contractors in connection with the Project is currently under charge in a national court, or, within a five-year period preceding the application, has been convicted in a national court or been subject to equivalent national administrative measures for violation of laws against bribery of public officials of any country; or iii) the LCEC becomes aware of child and/or forced labour in the Project; or iv) the LCEC has reason to believe that the Project may involve bribery.

170. The LCEC may verify whether appropriate internal corrective and preventive measures have been taken, maintained and documented in case of a conviction in a national court, or equivalent national administrative measures, for violation of laws against bribery of public officials of any country, of a person acting on behalf of the agents, consultants and/or contractors in connection with the project, within a five-year period.
171. The LCEC will disclose to the law enforcement authorities any credible evidence of bribery.
172. If there is credible evidence that bribery is involved in the award or execution of any contract for the Development Phase of the Project, the LCEC may suspend further disbursements of the contract during an enhanced due diligence process or withdraw the contract, deny further disbursements and/or reclaim the sums already paid. Furthermore, the LCEC may refuse approval of any further contract for the Implementation and the Operation and Maintenance phases of the project.
173. LCEC confirms that no contract will be awarded without a prior statement of no objection of Invest International.
174. LCEC will sanction a party or its successor, including declaring ineligible, either indefinitely or for a stated period of time, to participate in contracts if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive practices, or any illegal practice in competing for, or in executing, a contract.
175. Conflict of Interest: LCEC considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and

regulations, and that such conflict of interest may contribute to or constitute a prohibited practice under LCEC's Anticorruption Policy. In pursuance of LCEC's Anticorruption Policy's requirement, bidders, suppliers, and contractors under contracts must observe the highest standard of ethics. LCEC will take appropriate actions to manage such conflicts of interest which may include rejecting a proposal for award if it determines that a conflict of interest has flawed the integrity of any procurement process. At the time of bidding, bidders may be considered to be in a conflict of interest with one or more parties if they, including but not limited to:

- a) have controlling shareholders in common; or
- b) receive or have received any direct or indirect subsidy from any of them; or
- c) have the same legal representative for purposes of their Application; or
- d) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or to influence the bid of another Applicant in the subsequent bidding process or influence the decisions of LCEC regarding this prequalification process; or
- e) participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of this prequalification. Where a firm, or a firm from the same economic or financial group, in addition to consulting, also has the capability to manufacture or supply goods or to construct works, that firm, or a firm from the same economic or financial group, may not normally be a supplier of goods or works, if it provided consulting services for the contract corresponding to this prequalification, unless it can be demonstrated that there is no significant degree of common ownership, influence or control.

M. General Conditions of Contract

176. **LEGAL STATUS:** The Contractor shall be considered as having the legal status of an independent contractor vis-à-vis LCEC. The Contractor's personnel and sub-contractors shall not be considered in any respect as being the employees or agents of LCEC.
177. **SOURCE OF INSTRUCTIONS:** The Contractor shall neither seek nor accept instructions from any authority external to LCEC in connection with the performance of its services under this Contract. The Contractor shall refrain from any action which may adversely affect LCEC and shall fulfill its commitments with the fullest regard to the interests of LCEC.
178. **CONTRACTOR'S RESPONSIBILITY FOR EMPLOYEES:** The Contractor shall be responsible for the professional and technical competence of its employees and will select, for work under this Contract, reliable individuals who will perform effectively in the implementation of this Contract, respect the local customs, and conform to a high standard of moral and ethical conduct.
179. **ASSIGNMENT:** The Contractor shall not assign, transfer, pledge or make other disposition of this Contract or any part thereof, or any of the Contractor's rights, claims or obligations under this Contract except with the prior written consent of LCEC.
180. **SUB-CONTRACTING:** In the event the Contractor requires the services of sub-contractors, the Contractor shall obtain the prior written approval and clearance of LCEC for all sub-contractors. The approval of LCEC of a sub-contractor shall not relieve the Contractor of any of its obligations under this Contract. The terms of any sub-contract shall be subject to and conform with the provisions of this Contract.
181. **OFFICIALS NOT TO BENEFIT:** The Contractor warrants that no official of LCEC has received or will be offered by the Contractor any direct or indirect benefit arising from this Contract or the award thereof. The Contractor agrees that breach of this provision is a breach of an essential term of this Contract.
182. **INDEMNIFICATION:** The Contractor shall indemnify, hold and save harmless, and defend, at its own expense, LCEC, its officials, agents, servants and employees from and against all suits, claims, demands, and liability of any nature or kind, including their costs

and expenses, arising out of acts or omissions of the Contractor, or the Contractor's employees, officers, agents or sub-contractors, in the performance of this Contract. This provision shall extend, inter alia, to claims and liability in the nature of workmen's compensation, products liability and liability arising out of the use of patented inventions or devices, copyrighted material or other intellectual property by the Contractor, its employees, officers, agents, servants or sub-contractors. The obligations under this Article do not lapse upon termination of this Contract.

183. INSURANCE AND LIABILITIES TO THIRD PARTIES:

- a) The Contractor shall provide and thereafter maintain insurance against all risks in respect of its property and any equipment used for the execution of this Contract.
- b) The Contractor shall provide and thereafter maintain all appropriate workmen's compensation insurance, or its equivalent, with respect to its employees or any third party member to cover claims for personal injury or death in connection with this Contract.
- c) The Contractor shall also provide and thereafter maintain liability insurance in an adequate amount to cover third party claims for death or bodily injury, or loss of or damage to property, arising from or in connection with the provision of services under this Contract or the operation of any vehicles, boats, airplanes or other equipment owned or leased by the Contractor or its agents, servants, employees or sub-contractors performing work or services in connection with this Contract.
- d) Except for the workmen's compensation insurance, the insurance policies under this Article shall:
 - i. Name LCEC as additional insured;
 - ii. Include a waiver of subrogation of the Contractor's rights to the insurance carrier against LCEC;
 - iii. Provide that LCEC shall receive thirty (30) days written notice from the insurers prior to any cancellation or change of coverage.
- e) The Contractor shall, upon request, provide LCEC with satisfactory evidence of the insurance required under this Article.

184. ENCUMBRANCES/LIENS: The Contractor shall not cause or permit any lien, attachment or other encumbrance by any person to be placed on file or to remain on file in any public office or on file with LCEC against any monies due or to become due for any work done or materials furnished under this Contract, or by reason of any other claim or demand against the Contractor.

185. **TITLE TO EQUIPMENT:** Title to any equipment and supplies that may be furnished by LCEC shall rest with LCEC and any such equipment shall be returned to LCEC at the conclusion of this Contract or when no longer needed by the Contractor. Such equipment, when returned to LCEC, shall be in the same condition as when delivered to the Contractor, subject to normal wear and tear. The Contractor shall be liable to compensate LCEC for equipment determined to be damaged or degraded beyond normal wear and tear.
186. **COPYRIGHT, PATENTS AND OTHER PROPRIETARY RIGHTS:** LCEC shall be entitled to all intellectual property and other proprietary rights including but not limited to patents, copyrights, and trademarks, with regard to products, or documents and other materials which bear a direct relation to or are produced or prepared or collected in consequence of or in the course of the execution of this Contract as well as after execution. At the LCEC request, the Contractor shall take all necessary steps, execute all necessary documents and generally assist in securing such proprietary rights and transferring them to LCEC in compliance with the requirements of the applicable law.
187. **USE OF NAME, EMBLEM OR OFFICIAL SEAL:** The Contractor shall not advertise or otherwise make public the fact that it is a Contractor with LCEC, nor shall the Contractor, in any manner whatsoever use the name, emblem or official seal of LCEC, or any abbreviation of the name of LCEC in connection with its business or otherwise.
188. **CONFIDENTIAL NATURE OF DOCUMENTS AND INFORMATION:**
- a) All maps, drawings, photographs, mosaics, plans, reports, recommendations, estimates, documents and all other data compiled by or received by the Contractor under this Contract shall be the property of LCEC, shall be treated as confidential and shall be delivered only to LCEC authorized officials on completion of work under this Contract.
 - b) The Contractor may not communicate at any time to any other person, Government or authority external to LCEC, any information known to it by reason of its association with LCEC which has not been made public except with the authorization of LCEC; nor shall the Contractor at any time use such information to private advantage. These obligations do not lapse upon termination of this Contract.
189. **FORCE MAJEURE; OTHER CHANGES IN CONDITIONS:**

- a) Force majeure, as used in this Article, means acts of God, war (whether declared or not), invasion, revolution, insurrection, or other acts of a similar nature or force which are beyond the control of the Parties.
- b) In the event of and as soon as possible after the occurrence of any cause constituting force majeure, the Contractor shall give notice and full particulars in writing to LCEC, of such occurrence or change if the Contractor is thereby rendered unable, wholly or in part, to perform its obligations and meet its responsibilities under this Contract. The Contractor shall also notify LCEC of any other changes in conditions or the occurrence of any event which interferes or threatens to interfere with its performance of this Contract. The notice shall include steps proposed by the Contractor to be taken including any reasonable alternative means for performance that is not prevented by force majeure. On receipt of the notice required under this Article, LCEC shall take such action as, in its sole discretion, it considers to be appropriate or necessary in the circumstances, including the granting to the Contractor of a reasonable extension of time in which to perform its obligations under this Contract.
- c) If the Contractor is rendered permanently unable, wholly, or in part, by reason of force majeure to perform its obligations and meet its responsibilities under this Contract, LCEC shall have the right to suspend or terminate this Contract on the same terms and conditions as are provided for in Article 15, "Termination", except that the period of notice shall be seven (7) days instead of thirty (30) days.

190. TERMINATION

- a) LCEC reserves the right to terminate without cause this Contract at any time upon 15 days prior written notice to the Contractor, in which case LCEC shall reimburse the Contractor for all reasonable costs incurred by the Contractor prior to receipt of the notice of termination.
- b) In the event of any termination by LCEC under this Article, no payment shall be due from LCEC to the Contractor except for work and services satisfactorily performed in conformity with the express terms of this Contract. The Contractor shall take immediate steps to terminate the work and services in a prompt and orderly manner and to minimize losses and further expenditures.
- c) Should the Contractor be adjudged bankrupt, or be liquidated or become insolvent, or should the Contractor make an assignment for the benefit of its creditors, or should a Receiver be appointed on account of the insolvency of the Contractor, LCEC may, without prejudice to any other right or remedy it may have, terminate

this Contract forthwith. The Contractor shall immediately inform LCEC of the occurrence of any of the above events.

191. **SETTLEMENT OF DISPUTES:** The Parties shall use their best efforts to settle amicably any dispute, controversy or claim arising out of, or relating to this Contract or the breach, termination or invalidity thereof. In case amicable efforts fail, the settlement of disputes will take place in the courts of Beirut according to Lebanese laws and regulations.
192. **LABOUR ORGANIZATION:** During the execution of the contract, the bidders as well as its personnel, agents, sub-consultants, sub-contractors, service providers, suppliers and/or their employees will observe the IFC Performance Standards 2012 and the conventions of the International Labour Organization.
193. **CHILD LABOUR:** The Contractor represents and warrants that neither it, nor any of its suppliers is engaged in any practice inconsistent with the rights set forth in the Convention on the Rights of the Child, including Article 32 thereof, which, inter alia, requires that a child shall be protected from performing any work that is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical mental, spiritual, moral or social development. Any breach of this representation and warranty shall entitle the LCEC to terminate this Contract immediately upon notice to the Contractor, at no cost to the LCEC.
194. **ASSOCIATION TO TERRORISM:** The consultant ensures that none of its funds are used, directly or indirectly, to provide support to individuals, groups or entities associated with terrorism. In accordance with this policy, the Recipient undertakes to ensure that none of the Netherlands' funds provided under this award are used to provide support to individuals, groups or entities associated with terrorism, either directly or indirectly.
195. **OBSERVANCE OF THE LAW:** The Contractor shall comply with all Lebanese laws, decrees, ordinances, rules, and regulations (including future amendments) bearing upon the performance of its obligations under the terms of this Contract.
196. **AUTHORITY TO MODIFY:** No modification or change in this Contract, no waiver of any of its provisions or any additional contractual relationship of any kind with the Contractor shall be valid and enforceable against LCEC.

N.Forms

1. Letter of Application
2. Joint Venture (JV) Agreement
3. Applicant(s) Information Form
4. Sub-Contractor(s) Information Form
5. Performance Security
6. Financial Situation and Performance
7. Letter of Commitment of Consortium
8. Solar PV & Battery Storage Experience
9. Team Composition and Tasks Assignments
10. CVs of Key Experts
11. CVs of Team Members
12. Letter of Commitment of Key Experts
13. Financial Form

Form 1 - Letter of Application

Letter of Application

Date: *[day, month, and year]*

To: Lebanese Center for Energy Conservation (LCEC)
Ministry of Energy and Water
Corniche du Fleuve, First Floor, Room 303
Beirut, Republic of Lebanon

From: *[Name of the Bidder and Full Address]*

Name of the Project: “Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon”

We, the undersigned, submit this proposal and declare that:

- (a) We have examined and have no reservations to the most recent version of the RFP document and all its addendums;
- (b) We hereby confirm that we will comply with the policy in regard to Corrupt and Fraudulent Practices, and we have no conflict of interest in accordance with the section mentioned on this issue in the RFP;
- (c) We hereby confirm that if our proposal is selected, we shall sign the agreement as per the proposal;
- (d) We plan to subcontract the following key activities and/or parts of the works:
[Insert any of the key activities, subcontractors, details of the sub-contractors, their qualification and experience]
- (e) We understand that you may, without incurring any liability to the applicants, a) cancel the RFP at any time and b) accept no proposal or invite no applicant to sign the installation agreement. We also understand and accept that we shall bear all costs associated with its

preparation and submission and that LCEC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the selection process;

- (f) All information, statements and description contained in the application are in all respect true, correct and complete to the best of our knowledge and belief;
- (g) We understand that LCEC and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application. This letter of application will also serve as an authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by LCEC to verify statements and information provided in this application, or with regards to the resources, experiences, and competence of the bidder.

Signed *[insert signature(s) of an authorized representative(s) of the Applicant]*

Name *[insert full name of person signing the Application]*

In the capacity of *[insert capacity of person signing the Application]*

Duly authorized to sign the Application for and on behalf of:

Main Applicant's Name *[insert full name of Applicant or the name of the JV]*

Address *[insert street number/town or city/country address]*

Dated on *[day, month, and year]*

[For a joint venture, either all members shall sign or only the authorized representative, in which case the power of attorney to sign on behalf of all members shall be attached]

Form 2 - Joint Venture (JV) Agreement

[In case of a joint venture, a "Joint Venture Agreement" needs to be completed and signed by each partner of the bidder and attached to the Technical Proposal.]

JOINT VENTURE AGREEMENT

This agreement is made the ___ day of ___ 2026, by and between:

_____ (hereinafter called _____), a company organized under the laws of _____, with its principal office at _____, and its address at _____, hereinafter called _____ of the first part,

And

_____ (hereinafter called _____), a company organized under the laws of _____, with its principal office at _____, and its address at _____, hereinafter called _____ of the second part,
The first and the second party together are hereinafter referred to as "the Parties".

WHEREAS the Lebanese Center for Energy Conservation (LCEC), hereinafter called "the LCEC" has invited the Parties to submit a proposal for the execution of the Solar PV + BESS consultancy Project entitled "Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon" (hereinafter called "the Project")

WHEREAS the Parties wish to enter into a Joint Venture Agreement in order to be prequalified by the LCEC to tender for the Project and, if successful, to execute the Project under a Contract to be awarded by the LCEC, hereinafter called "the Contract";

THE PARTIES HERETO AGREE TO FORM A JOINT VENTURE UNDER THE FOLLOWING TERMS AND CONDITIONS:

1. ESTABLISHMENT OF THE JOINT VENTURE

The Parties hereby agree to constitute themselves as a Joint Venture under the name of _____ hereinafter called "the Joint Venture".
The Joint Venture shall have its offices at the following address:

The objective of the Joint Venture shall be to execute the Project in accordance with all terms and conditions of a Contract to be signed with the LCEC. The Joint Venture shall be comply with all laws and regulations relevant to the establishment and operation of joint ventures in Lebanon and shall be certified by the relevant public notary.

2. LIABILITY

- 2.1 Notwithstanding any other conditions contained in this joint venture agreement or in any other agreement between the Parties, each of the Parties hereby commits itself to the jointly and severally liable towards the LCEC as well as towards any and all co-contractors and/or subcontractors for the proper execution of all obligations of the Joint Venture in relation to the Contract to be signed with the LCEC for the execution of the Project.
- 2.2 The Parties shall keep each other, both during and after the term of this joint venture agreement, fully indemnified against all losses and damages resulting from gross negligence or breach of contract of one party or their personnel or agents in relation to this agreement as well as to all contracts to be executed by the Joint Venture.

3. REPRESENTATION

For the purpose of this joint venture agreement, the Joint Venture shall be represented by the first party hereto _____ who is hereby authorized by the second party to act on behalf of the Parties of this Joint Venture in all matters related to the submission of the Tender, the negotiation and signing of the Contract with the LCEC, the execution of the Project, including but not limited to the invoicing and receipt of payments, the execution of subcontractors, the incurring of liabilities and receipt of instructions on behalf of all partners of the Joint Venture in relation to the Contract with LCEC during the entire execution period of the said Contract.

[Note: the level of authority delegated to the leading party must be determined by the JV Partners. If restrictions apply, supplementary "powers of attorney" must be provided to the leading partner prior to signing of the Contract.]

The Parties shall keep the LCEC informed at all times of all details concerning the Joint Venture and its authorized representatives.

4. REVENUE DISTRIBUTION

The total payments to the joint venture shall be distributed between the Parties according to the following proportions:

First Party _____%
Second Party _____%
_____ %

The local taxes calculation shall be based on the above mentioned percentages.

5. EXCLUSIVITY

The Parties shall exclusively work together in connection with the Project. Each party hereto agrees that it has no interest whatsoever directly or indirectly, in any other proposal which may be submitted to the LCEC with respect to the execution of the Project.

6. OBLIGATION TO TENDER

The Parties shall fill in and submit to the LCEC their relevant prequalification file documents, and if jointly qualified, they shall tender for the Project as a Joint Venture. If the Contract for the Execution of the Project is awarded to the Joint Venture, they shall jointly execute the Project under their joint and several responsibilities in accordance with the applicable terms and conditions of contract.

7. DURATION

7.1 This joint venture agreement shall enter in to force and effect as of the date first written above.

7.2 This joint venture agreement shall expire if the Joint Venture's tender is rejected or in case the Contract is awarded to another bidder.

7.3 In case the Contract is awarded to the Joint Venture, this joint venture agreement shall remain in force until all obligations of the Parties under the Contract have been fulfilled and each of the Parties has honored its obligations towards the other.

8. RIGHTS OF LCEC

All rights stipulated in this joint venture agreement in favor of the LCEC SHALL BE HONORED BY THE Parties as if the LCEC were a direct beneficiary of this agreement. Consequently, the Parties hereto acknowledge the right of the LCEC to act directly on the basis of this agreement against all or any of the Parties hereof.

9. SETTLEMENT OF DISPUTES

The parties shall use their best efforts to settle amicably arising out of or in connection with this joint venture or the interpretation thereof.

[Note: choose one of the alternatives and delete the rest]

Alternative 1: Any dispute between the Parties as to the matters arising pursuant to this agreement which cannot be settled amicably within (30) days after receipt by one party of the other party's request for such amicable settlement may be submitted by either party to the competent Court in the Republic of Lebanon. Lebanese law shall apply to the interpretation of this agreement.

Alternative 2: Any dispute between the Parties as to the matters arising pursuant to this agreement which cannot be settled amicably within thirty (30) days after receipt by one party of the other party's request for such amicable settlement may be submitted by either party to arbitration for final settlement in accordance with the procedures applicable under the Laws of the Republic of Lebanon.

Alternative 3: Any dispute between the Parties as to the matters arising pursuant to this agreement which cannot be settled amicably within thirty (30) days after receipt by one party of the other party's request for such amicable settlement shall be finally settled by either party under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

The Parties hereto have caused this agreement to be executed in three copies, one for each party and one for the LCEC, by their duly authorized officers on the date first above written

FOR AND ON BEHALF OF

FOR AND ON BEHALF OF

FIRST PARTY

SECOND PARTY

NAME:

NAME:

TITLE:

TITLE:

SIGNATURE:

SIGNATURE:

STAMP:

STAMP:

Form 3 - Applicant(s) Information Form

Applicant Information Form

[Name of Applicant]

[All individual firms and each partner of a Joint Venture applying for the project are requested to complete the information in this form, separately]

Applicant's name:	<i>[insert full name]</i>
In case of Joint Venture (JV), name of each member:	<i>[insert full name of each member in JV]</i>
Applicant's actual or intended country of registration:	<i>[indicate country of Constitution]</i>
Applicant's actual or intended year of incorporation:	<i>[indicate year of Constitution]</i>
Applicant's legal address [in country of registration]:	<i>[insert street/ number/ town or city/ country]</i>
Applicant's authorized representative information	
Name:	<i>[insert full name]</i>
Address:	<i>[insert street/ number/town or city/country]</i>
Telephone/Fax numbers:	<i>[insert telephone/fax numbers, including country and city codes]</i>
E-mail address:	<i>[indicate e-mail address]</i>

Attached are copies of original documents of articles of incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above.

Form 4 - Sub-Contractor(s) Information Form

Sub-Contractor Information Form

[Name of Sub-contractor]

[The following form shall be completed to provide information relating to any specialized sub-contractor proposed to be used by the applicant]

Sub-contractor's name:	<i>[insert full name]</i>
Sub-contractor's actual country of registration:	<i>[indicate country of Constitution]</i>
Sub-contractor's actual or intended year of incorporation:	<i>[indicate year of Constitution]</i>
Sub-contractor's legal address [in country of registration]:	<i>[insert street/ number/ town or city/ country]</i>
Sub-contractor's authorized representative information	<i>[insert full name]</i>
Name:	<i>[insert street/ number/ town or city/ country]</i>
Address:	<i>[insert telephone/fax numbers, including country and city codes]</i>
Telephone/Fax numbers:	
E-mail address:	<i>[indicate e-mail address]</i>

Attached are copies of original documents of articles of incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above.

PERFORMANCE SECURITY – BANK GUARANTEE FOR GOOD
PERFORMANCE OF WORK

Tenderers are to submit confirmation that a Performance Bank guarantee will be provided in the terms described in the RFP. The actual Bank Guarantee shall be executed at contract award.

Brief description of Contract: the Contract concerns the “Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon”

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To: The Lebanese Center for Energy Conservation (LCEC)
Ministry of Energy and Water Building, Corniche du Fleuve
1st Floor, Room 303
Beirut, Lebanon

Gentlemen,

WHEREAS,(name and address of Contractor), hereinafter called “the Contractor”) has undertaken in pursuance of Contract No.datedto execute (name of project) hereinafter called “the Contract”);

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with an unconditional an irrevocable Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor up to a total of (in words) such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or

argument, any sum or sums within the limits of (amount of Guarantee in the currency(ies) specified) (in words) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed hereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the date of issue of the Defects Liability Certificate by the Employer. In any case defect liability period shall not extend beyond four years from the date of taking over.

SIGNATURE AND SEAL OF THE GUARANTOR,
Name of the Bank
Address
Date

Form 6 - Financial Situation and Performance

[The following table shall be filled by the bidder and by each member of a Joint Venture]

Applicant's Name	[insert full name]
Applicant's Party Name	[insert full name]

Financial Data

Type of Financial information in (Euros)	Historic information for previous 3 years, (amount in Euros)		
	[Specify Year 1]	[Specify Year 2]	[Specify Year 3]
Statement of Financial Position (Information from Balance Sheet)			
Total Assets (TA)			
Total Liabilities (TL)			
Total Equity/Net Worth (NW)			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital (WC)			
Information from Income Statement			
Total Revenue (TR)			
Revenue from solar energy			
Profits Before Taxes (PBT)			
Cash Flow Information			
Cash Flow from Operating Activities			

[The Applicant and its parties shall provide copies of financial statements for the last 3 years. The financial statements shall: (a) reflect the financial situation of the Applicant (or parent) or in case of JV the members, (b) be independently audited or certified in accordance with local legislation, (c) be complete, including all notes to the financial statements, (d) correspond to accounting periods already completed and audited]

Form 7 – Letter of Commitment of Consortium

To: Lebanese Center for Energy Conservation

Beirut

Corniche du Fleuve

We, the undersigned, submit this proposal and declare that:

We have examined, have no reservations and commit to the most recent version of the RFP for Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon composed of 46 pages' document and all its addendums;

Signed *[insert signature(s) of an authorized representative(s) of the Applicant]*

Name *[insert full name of person signing the Application]*

In the capacity of *[insert capacity of person signing the Application]*

Duly authorized to sign the Application for and on behalf of: Applicant's Name *[insert full name of Applicant or the name of the JV]*

Address *[insert street number/town or city/country address]*

Dated on *[insert day number]* day of *[insert month]*, *[insert year]*

[Either all members of the JV shall sign or only the authorized representative, in which case the power of attorney to sign on behalf of all members shall be attached]

Form 8 – Solar PV & Battery Storage Experience

Applicant's/Joint Venture Member's Name:	<i>[insert full name]</i>
Applicant JV Party Name:	<i>[insert full name]</i>

[The following table shall be filled in for the main applicant and in the case of a JV applicant, each member]

[Identify contracts that demonstrate continuous solar PV + BESS work Starting January 2016. List contracts chronologically, according to their commencement (starting) dates.]

Starting Year	Ending Year	Contract Identification	Role of Applicant
<i>[indicate year]</i>	<i>[indicate year]</i>	Contract name: <i>[insert full name]</i> Solar station size (MWp): Battery storage size (MWh): Contract amount (€): Award date: Completion date: Brief Description of the Works performed by the Applicant: <i>[describe works performed briefly]</i> Name of Employer: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i> Contact Person Name & Details: <i>[name, phone, email]</i>	<i>[insert "Prime Consultant" or "JV Member" or "Sub-consultant" or other role]</i>
<i>[indicate year]</i>	<i>[indicate year]</i>	Contract name: <i>[insert full name]</i> Solar station size (MWp): Battery storage size (MWh): Contract amount (€): Award date: Completion date: Brief Description of the Works performed by the Applicant: <i>[describe works performed briefly]</i> Name of Employer: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i> Contact Person Name & Details: <i>[name, phone, email]</i>	<i>[insert "Prime Consultant" or "JV Member" or "Sub-consultant" or other role]</i>

<i>[indicate year]</i>	<i>[indicate year]</i>	Contract name: [insert full name] Solar station size (MWp): Battery storage size (MWh): Contract amount (€): Award date: Completion date: Brief Description of the Works performed by the Applicant: [describe works performed briefly] Name of Employer: [indicate full name] Address: [indicate street/number/town or city/country] Contact Person Name & Details: [name, phone, email]	<i>[insert "Prime Consultant" or "JV Member" or "Sub-consultant" or other role]</i>

[Add rows, if necessary]

Form 9 - Team Composition and Task Assignments

1. Team Leader and Renewable Energy Engineer

Name	Phone number	Email

2. Electrical Engineer

Name	Phone number	Email

3. Legal Expert

Name	Phone number	Email

4. Environmental and Social Specialist

Name	Phone number	Email

5. Financial Expert

Name	Phone number	Email

5. Economic Expert

Name	Phone number	Email

Form 10- CVs of Key Experts

[Use this standard format for specifying the name of each key expert. The CV of the key expert must be attached separately.]

Team Leader and Renewable Energy Engineer	
Person name:	
Title in the project:	
Affiliation:	
Experience	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	

Electrical Engineer	
Person name:	
Title in the project:	
Affiliation:	
Experience	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	

Legal Expert	
Person name:	
Title in the project:	
Affiliation:	
Experience	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	

Environmental and Social Specialist	
Person name:	
Title in the project:	
Affiliation:	
Experience	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	

Financial Expert	
Person name:	
Title in the project:	
Affiliation:	
Experience	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	

Economic Expert	
Person name:	
Title in the project:	
Affiliation:	
Experience	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	

Form 11 - CVs of Team Members

[Use this standard format for specifying names of key people that constitute the team. CV's of the team members must be attached separately.]

[If the bidder intends to subcontract any of the key activities, then the subcontractor name shall be clearly identified in the Affiliation, and attach a letter of support from the subcontractor stating the name of the project and personnel provided. Add more rows if necessary.]

Solar PV + BESS Consultancy Services	
Person name:	
Title in the project:	
Affiliation:	
Experience	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	
Date range:	
Project name:	
Role:	

[Add tables as needed]

Form 12 – Letter of Commitment of Key Experts

To: Lebanese Center for Energy Conservation

Beirut

Corniche du Fleuve

I, the undersigned, acting as *[key expert]* declare that:

I am committed to the consultancy services company *[Insert Name of Company]* during the entire period of the project entitled “Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon”, and will not be a part of any other submittal with any other company to this bid.

Signed *[insert signature of key expert]*

Name *[insert full name of key expert]*

Address *[insert street number/town or city/country address]*

Dated on *[insert day number]* day of *[insert month]*, *[insert year]*

Form 13 – Financial Form

[This list is to be filled only with the man-days in the operational and technical proposal folder and should include the price only in the financial offer envelope]

<i>Milestone (as per section D)</i>	<i>Man-days (breakdown per expert)</i>	<i>Pricing (in Euros)</i>
Financial viability analysis		
Economic viability analysis		
Procurement analysis		
Implementation and O&M plan		
Optional Deliverables:		
Proportional ESIA		
Tender documents		
Total		

[Add rows to include all milestones that the consultant deems necessary]

[The more detailed the list of milestones is, the better]

Appendix 1. Technical Specifications Book for the Request for Proposal (RFP) for Consultancy Services for the Development of a Solar PV + BESS Plant in Baalbek-Hermel Lebanon

Prepared by the Lebanese Center for Energy Conservation (LCEC)

May 2026

Beirut, Lebanon

Technical Specifications Book for the Request for Proposal (RFP) for
Consultancy Services for the Development of a Solar PV + BESS Plant
in Baalbek-Hermel Lebanon

A. Profile of the consultancy team

The Consultant shall be a reputable Renewable Energy Engineering Consultancy firm and fully conversant with Lebanon's procurement documents, Conditions of Contract and construction of projects in developing countries. The Consultant should have a track record in similar projects carried out in Lebanon and/or the Middle Eastern region. Experience in the design of Solar PV + BESS plants is a requirement.

The Consultant is responsible for the sufficiency and adequacy of its work. These Terms of Reference are not intended to be an exhaustive list of all activities, but should be considered an indication of the level of work minimally required for the outputs. Although the work is divided into various elements, the Consultant shall ensure that it forms a holistic, integrated study resulting in sustainable outputs.

The personnel assignment schedule shall be coherent with the work plan (activity schedule) and with the number of man-months which will be reflected in the cost breakdown of the Financial proposal.

The Consultant shall provide adequate staff with appropriate qualification and experience to undertake the works described herein. It is expected that the staff/areas of expertise as indicated below, will be included in the team. The team of key personnel shall comprise at least the competences/functions mentioned below. The bidders shall submit CVs of the key experts in accordance with the format attached to the Invitation to Tender. The bidders are free to propose additional expertise fields and a pool of supporting experts.

B. Form of contract and payment structure

The form of Contract shall be lump sum. Payments for the services shall be made on the basis of agreed Lump Sums for each completed milestone of the assignment. Invest International will pay the Consultant directly on behalf of the LCEC.

The relative milestone payments in proportion to the total sum for the assignment are given below:

Table 3: Tentative Payment schedule

Milestone (After Approval by the Client)	Percentage of contract value
Report of Project Working Plan and Updated Gantt Chart Upon Contract Signature	10%
Financial Viability Analysis Economic Viability Analysis Procurement Analysis	30%
Implementation and O&M Plan	15%
Optional Deliverables	
Proportional ESIA	10%
Tender Documents	35%
Total Lump Sum Contract	100%

Approval and payment procedure

The consultant submits the draft deliverables to LCEC. LCEC and Invest International will jointly review the reports and send their joint comments to the consultant. After taking into account the comments, the Consultant submits the final deliverables to LCEC.

LCEC and Invest International approve the final deliverables through issuing a Statement of Acceptance, after which the Consultant can send an invoice to LCEC. LCEC will request Invest International to pay the Consultant on their behalf.

Annexes - ESIA

Annex 2 - Required Information for the EIA Scoping

This annex is based on the general Lebanese EIA scoping requirements.

1. **Introduction:** this paragraph defines the objective of the EIA scoping report, the project under study, in addition to explanation of the EIA executive measures.
2. **Background information:** this paragraph includes relevant information about potential parties conducting the EIA study, a synopsis of the basic content of the proposed project, a statement of the importance of the project, its objectives, the implementing office, and a summary of the history of the project, the alternatives and related projects. Reference will be made to any projects planned or currently implemented in the same area since they could be competing with the project under consideration in terms of resources.
3. **Objective:** this paragraph identifies the EIA scope, and discusses its timing in view of the phases of preparing, designing and implementing the project.
4. **EIA requirements:** this paragraph sets forth any regulations and guidelines organizing the EIA implementation. It defines the content of the EIA scoping report.
5. **Study area:** this paragraph shows the boundaries of the area covered by the study for the purposes of environmental impact assessment. If there is a neighbouring or far away area that should be studied in terms of the potential consequences of implementing or managing this project, such area should be included in the EIA scoping report.
6. **Scope of work:** in some cases, knowing clearly the tasks of the project owner, facilitates defining them fully in the EIA scoping report. However, in other cases, there is a need to carry out specialized field studies or forming models in order to assess the consequences of the proposed project, and at that point, the project owner is required to define these certain tasks in detail. The scope of work includes the following points:

6.1 Policy, legal and administrative frameworks: an investigation of the enforceable regulations, principles, and standards observed by the environment sector at the local and national levels (the study sets forth the known considerations, and the project owner is requested to verify the existence of any other considerations), laws governing the sector under which the project is included. The information should address specifying the official department concerned, and its potential at the local and national levels.

6.2 Assistance in coordinating among official departments and public participation: assistance in coordinating the study with official departments, seeking feedback of local NGOs and groups affected by the project, and keeping the minutes of meetings, other activities, communications, comments and how to act regarding them. The EIA scoping report identifies the types of activities such as the meeting on work scoping attended by stakeholders, briefing sessions at the environment sector for project employees, supporting consultants of the environment sector, public seminars etc.

6.3 Description of the proposed project: description of project components, the relevant maps according to the appropriate scale and photos, information of project location, comprehensive design, size, capacity, work program, services, the duration of operation, etc.

6.4 Description of the surrounding environment of the project: gathering and evaluation basic information of environmental characteristics of the study location (physical, chemical, biological, social and economic environment) taking into consideration any expected modifications before the commencement of the project or any likely changes in future.

6.5 Potential environmental impact of the project: it should be distinguished between positive and negative effect, direct and indirect impact, short term and long term impact. Permanent unavoidable consequences should be identified, as well as defining universal and cross border effects. The project owner should describe estimation means and techniques used in assessing the impact of the project on the environment. The scope and quality of available information will be determined, together with an explanation of significant information gaps and uncertainties regarding the assessment of the potential impact of the proposed project. It is advisable to review the conditions of some planned studies in order to obtain the missing information. This paragraph

should list the possible mitigation measures per each impact and recommend the most effective and low cost measures.

6.6 Analysis of project alternatives: preliminary description of alternatives studied during the preparation of the proposed project and listing other alternatives that can achieve the same objectives. The concept of these alternatives generally includes the selection of project site, its designs and technology, construction methods and the stages, and the operation and maintenance procedures. A preliminary comparison will be made among these alternatives in terms of potential environmental effects, their costs relative to the capital and operation, adequacy of local conditions, institutional requirements, training needs, and monitoring and control requirements. It should, as much as possible, identify the preliminary cost and profits of all alternatives, as well as the estimated cost of mitigation measure. The alternation regarding the no implementation of the project should also be included to clarify environmental conditions "AS IS" without the project.

6.7 Environmental management plan: this plan should include:

- Mitigation measures for negative impact;
- Monitoring and control plan;
- Institutional capacity development plan to implement recommendations contained in the EIA report.

The project owner should prepare a detailed environmental management plan including mitigation measures for all negative consequences, monitoring and control program, the needs of workers and institutions to apply these measures. The cost of this plan should also be identified, including compensations for those affected by impact that will not be mitigated.

7. **The Report:** The EIA report should be brief addressing only major environmental issues. The body text should focus on investigation results, the conclusion, practical recommendations supported by summaries of the gathered information, and any approved references to explain and interpret such information. The detailed or unclear information is not appropriate in the body text, and should be presented in the annexes or in a separate document. The same thing applies to unpublished documents used in the EIA study and they should be grouped in an annex.

Annex 3 - Required Information for the EIA study

This annex is based on the general Lebanese EIA requirements for a full-fledged ESIA. This annex could be used as a reference to identify and scale a Proportional ESIA.

The EIA report should include the following information (not necessarily in this order):

- 1. Executive summary**
- 2. Table of contents**
- 3. Introduction**
 - Objective and rationale of the project
 - Definition of the project and the project owner
 - Brief description of the type, size and location of the project
 - Importance of the project to the country
 - The EIA scoping, which include the person or the agency that prepared the study
- 4. Policy, legal and administrative frameworks:**
 - Official department concerned, its capabilities at local and national levels
 - Environmental legislation, other regulations related to the environment, the policy observed in the country
 - Environmental requirements for any of the parties participating in financing the project
 - Applicable Environmental agreements or treaties the country have joined
- 5. Public participation:**
 - Official agencies
 - NGOs
 - Groups affected by the Project
- 6. Description of the proposed project:**
 - Type of the project
 - Location of the project: maps showing the project site and its impact
 - Size of the project, including the related activities
 - Proposed program for construction and operation

7. Description of the surrounding environment of the project:

7.1 Physical and chemical environment:

- Topographical and geological aspects, and the impact of earthquakes and other hazards
- Study of surface and underground water
- Measuring sea and coasts
- Available means of discharging polluted water, and the quality of water
- Surround air quality, sources of air pollution
- Climate and weather service
- Noise

7.2 Biological environment:

- Vegetation and animal life
- Fish and water living creatures
- Rare or endangered species
- Sensitive areas (forests, protected areas, natural parks, etc)

7.3 Socio-economic environment:

- Demographics (population, social fabric, employment, income distribution, customs and traditions, people expectations etc)
- Development activities (infrastructure, industry, agriculture, institutions, tourism, recreation etc)
- Land use
- Traffic
- Public health
 - Historic and archaeological heritage
 - Aesthetic values
 - Culture and civilization values (customs and tradition, aspirations)

8. Potential environmental impact of the project:

8.1 Physical and chemical environments

8.2 Biological environment

8.3 Social and economic environment

9. Preliminary analysis of project alternatives:

- Non establishment of the project
- Alternative projects with same objectives
- Same project with different technologies
- Comparing various environmental and economic potentials

10. Environmental management plan:

10a. Negative impact mitigation program:

- Summary of significant environmental consequences
- Technical detail of each mitigation measure (applicable to which impact, the conditions of their application, designs, detailed fittings and operational procedures)
- Potential environmental effects of these measures
- Linkage between these measures and other mitigation programs
- Cost of negative impact mitigation program

10b. Monitoring and control program:

- Specific technical detail of control means (control standards, control techniques, periodicity of the required control, control location, measurement procedures, keeping and analyzing' information, and emergency measures)
- Reporting and report submission
- Detailed budget, acquisition program and the required supplies
- Cost of monitoring and control program

10c. Institutional capacity development program:

- Detailed description of institutional procedures required for the above environmental measures (responsibility for implementing mitigation measures and control/follow up procedures etc).
- Technical assistance programs
- Acquisitions and supplies
- Organizational changes
- Cost of institutional capacity development program

11. Conclusion:

- Net profit justifying the establishment of the project
- Explanation of how to mitigate negative impact
- Prior preparations for following up control and supervision

12. Annexes:

- Minutes of public participation
- Summary of project-related documents
- Tables and information statements
- List of related reports
- List of scientific and non-scientific references used
- List of the names of who prepared the EIA report (individuals and agencies)

Note: The Ministry of Environment has the right to modify items required in this annex in accordance with environmental essentials that are applicable to standards and role of the project. Special consideration is given to the application of article 12 "Information publication".