**Full Project Proposal Form**

**Third Funding Cycle**

April 30th, 2015

**Project name:** Click here to enter text.

**Project number:** Click here to enter text.

**Instructions:** This form is protected. Applicants can input the project details in the areas labelled *‘Click here to enter’*, or use the drop down options labelled *‘Choose an item’*. Other sections without either option will allow you to input texts freely and add rows where necessary.

**Summary update:**

Please use this section to clarify project objectives and provide a brief description of the project. Include relevant updates since the executive project summary stage. The description could include technical merit, commercial viability and socioeconomic and environmental benefits of projects. Highlight project features that are potentially transformative, innovative and/or replicable/scalable. (Max. 100 words).

Answer: Click here to enter text.

**Technical merit: (40% weight)**

1. **Technology type:** select the appropriate technology type and provide output capacity with appropriate unit of measure.

|  |  |  |  |
| --- | --- | --- | --- |
| **Project technologies** | **Select** | **Annual output** | **Unit of measure** |
| **Solar** |  |  | **MWh / year** |
| PV rooftop |[ ]  Click here to enter text. |  |
| PV utility |[ ]  Click here to enter text. |  |
| CSP |[ ]  Click here to enter text. |  |
| Solar thermal |[ ]  Click here to enter text. |  |
| **Wind** |  |  | **MWh / year** |
| On-shore |[ ]  Click here to enter text. |  |
| Off-shore |[ ]  Click here to enter text. |  |
| **Hydropower** |[ ]   | **MWh / year** |
| **Bioenergy** |  |  | **Specify unit of measure** |
| Biogas power |[ ]  Click here to enter text. | Click here to enter text. |
| Biogas heat |[ ]  Click here to enter text. | Click here to enter text. |
| Biogas CHP |[ ]  Click here to enter text. | Click here to enter text. |
| Biogas fuel production |[ ]  Click here to enter text. | Click here to enter text. |
| Solid biomass power |[ ]  Click here to enter text. | Click here to enter text. |
| Solid biomass heat |[ ]  Click here to enter text. | Click here to enter text. |
| Solid biomass CHP |[ ]  Click here to enter text. | Click here to enter text. |
| Solid biomass fuel production |[ ]  Click here to enter text. | Click here to enter text. |
| Liquid biofuels |[ ]  Click here to enter text. | Click here to enter text. |
| **Waste to energy** |[ ]  Click here to enter text. | **MWh / year** |
| **Geothermal** |  |  | **Specify unit of measure** |
| Geothermal power |[ ]  Click here to enter text. | Click here to enter text. |
| Geothermal heat |[ ]  Click here to enter text. | Click here to enter text. |
| **Ocean** |[ ]   | **MWh / year** |
| **Hybrid** |  |  | **MWh / year** |
| Hybrid renewable |[ ]  Click here to enter text. |  |
| Hybrid diesel / renewable |[ ]  Click here to enter text. |  |
| **Cookstoves** |  |  | **Quantity** |
| Solid biomass cookstoves |[ ]  Click here to enter text. | Number of units |
| Biogas cookstoves |[ ]  Click here to enter text. | Number of units |
| **Other** |  |  | **Specify unit of measure** |
| Click here to enter text. |[ ]  Click here to enter text. | Click here to enter text. |

1. **Technology components and specification:** Describe and list all components with specifications of the project technology set up (for example: solar modules, inverters, substation, wind turbines, bio-digesters, hydro power turbines, etc.). Add additional rows where necessary.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Component name** | **Make and model** | **Specification** | **Quantity** | **Notes** |
|   |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. **Renewable resource:** Complete the following table with the renewable resource availability at the project site providing the amount of any relevant unit of measure.

|  |  |  |  |
| --- | --- | --- | --- |
| **Resource type** | **Estimated amount** | **Unit of measure** | **Source of data[[1]](#footnote-1)** |
| Solar | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Wind | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Hydro | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Biomass | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Geothermal | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Ocean | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Other | Click here to enter text. | Click here to enter text. | Click here to enter text. |

1. **Select the applicable project classifications from the following lists in this table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grid connection** | **Centralized / Decentralized\*** | **Project owners** | **Project financiers** |
| Choose an item. | Choose an item. | Choose an item. | Choose an item. |

**\*Centralized:** Renewable energy project developed for the support of different purposes, entities or communities. Example: 30 MW Solar CSP plant providing electricity to households, manufacturing plants, clinics.

**\*Decentralized**: Renewable energy project, usually located in proximity of the end-user, intended to serve a specific cause and of use to a particular entity or community. Example: Small hydro plant powering a local hospital.

**6) Project implementation plan:** Describe the project implementation plan in detail highlighting the various steps of project development including duration. Examples include, but not limited to, site readiness, land permits, grid connection, resource measurements, community engagement, contract negotiation, etc. Insert additional rows where necessary.

|  |  |  |  |
| --- | --- | --- | --- |
| **Pre-development activities** | **Implementation Dates**  | **Status** | **Notes** |
| **Start** | **Finish** |
| Land acquisition | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| Permitting | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| Project feasibility | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| **Financing** |  |
| Financing arrangements  | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| Other:  | Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| **Agreements** |  |
| EPC | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| Offtake | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| O&M  | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| Grid connection | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| Partnership | Click here to enter text. | Click here to enter text. | Choose an item. | Click here to enter text. |
| **Other** |  |
| Construction | Click here to enter text. |  | Click here to enter text. |
| Operation | Click here to enter text. |  | Click here to enter text. |
| **Full project** |  |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |

\*NB Project implementation shall be in accordance with the tendering and procurement procedures of ADFD. Technology providers can only be awarded contracts after the project is selected and a loan agreement is concluded with ADFD. ADFD oversees these procedures to ensure transparency of the tendering and delivery process.

**7) Project risks:** provide a summary of the risk mitigation strategies available for each type of project risk. Insert additional rows where necessary.

|  |  |  |
| --- | --- | --- |
| **Type** | **Risk** | **Mitigation** |
| Political |  |  |
| Security |  |  |
| Policy and regulatory |  |  |
| Off-take non-payment |  |  |
| Technology |  |  |
| Grid connectivity |  |  |
| Construction delay |  |  |
| Resource availability |  |  |
| Output |  |  |
| Monitoring and maintenance |  |  |
| Financing |  |  |
| Liquidity |  |  |
| Fuel cost variability |  |  |
| Management capacity |  |  |
| Competency |  |  |
| Partner capacity |  |  |
| Exchange rate |  |  |
| Administrative sustainability |  |  |
| Natural catastrophe |  |  |
| Other: | specify here |  |  |

**8) Key performance indicators (KPIs):** Provide a list of the KPIs from a technical point of view for the project. (For example: solar module efficiency and kWh/year generated, wind turbine efficiency, operations and maintenance (O&M) cost per year, etc.). Insert additional rows where necessary.

|  |  |  |  |
| --- | --- | --- | --- |
| **KPI** | **Description** | **Target value** | **Units** |
| Technology efficiency |  |  |  |
| Renewable resource availability |  |  |  |
| Other: | Specify here |  |  |  |

**9) Proof of technical feasibility:** Provide proof of technical feasibility for the proposed project (for example: feasibility studies including technical studies, pilot project analysis, previous experience, etc.). Attach in a separate file.

**10) Management capabilities:** Provide detailed experience/ qualifications for the project management team listing relevant experience, knowledge of country and technology, capability and availability to deliver, commitment to the project and other relevant qualifications/ certifications.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Project position** | **Years of relevant experience** | **Summary of past relevant experience** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**11) Monitoring and evaluation:** Provide details on the monitoring and evaluation plan of the project.

*Answer:* Click here to enter text.

**Commercial viability: (30% weight)**

1. **Loan requested and total project cost** in USD million.

|  |  |
| --- | --- |
| **Loan requested** | **Total project cost** |
| Click here to enter text. | Click here to enter text. |

1. **Estimate for the** **levelized cost of energy (LCOE):** Provide the best possible estimate for the levelized cost of energy, if already calculated. Provide full detail of the cost items included and method of calculation.

*Answer:* Click here to enter text.

1. **Detailed technology costs:** Provide detailed costs for the technology components listed in Technical Merit section above, under question 2). Insert additional rows as necessary.

|  |  |  |  |
| --- | --- | --- | --- |
| **Component name/type** | **Quantity** | **Price per unit** | **Total amount** |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |

1. **Detailed other project costs:** Provide detailed cost breakdown of other cost items in the project, such as but not limited to project development costs, feasibility studies, consulting works, shipping cost, customs and duties, etc. Insert additional rows as necessary.

|  |  |  |  |
| --- | --- | --- | --- |
| **Other costs** | **Quantity** | **Price per unit** | **Total amount** |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |

1. **Content localization:** Provide percentage of the total project costs that will be sourced/spent locally including services and equipment.

*Answer:* Click here to enter text.

1. **Financial model:** Provide full financial model including balance sheet, cash flow statement, and profit and loss (P&L) statement. Attach in a separate file.
2. **Project Internal Rate of Return (IRR):** Provide project internal rate of return (IRR).

*Answer:* Click here to enter text.

1. **Offtake agreement/ revenue sources:** provide details on off-take agreements or potential revenue generating sources, sale price of project outputs and current state of contract negotiation. Add additional rows where necessary.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Output** | **Off-take secured**  | **Duration (Years)**  | **Sale price (USD)** | **Notes** |
| **Electricity** | Choose an item. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| **Heat** | Choose an item. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| **Biomass** | Choose an item. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| **Biogas** | Choose an item. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| **Water** | Choose an item. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| **Other** | Choose an item. | Click here to enter text. | Click here to enter text. | Click here to enter text. |

1. **Status of co-finance:** provide details and status of co-finance.

*Answer:* Click here to enter text.

1. **Debt to equity ratio:** Provide the project debt to equity ratio.

*Answer:* Click here to enter text.

1. **Cost of leveraged finance:** Provide the cost of the debt portion of the leveraged finance.

*Answer:* Click here to enter text.

**Socio-economic and environmental benefits: (30% weight)**

1. **Stakeholder engagement:** provide the current status of local stakeholder engagementon social, economic, environmental and other sustainable development aspects of the projects.

*Answer:* Click here to enter text.

1. **Economic benefits:** Provide details on the direct impacts of the project on promoting local economic development, job creation, business creation, and income generation and/or add to table in 29 below.

*Answer:* Click here to enter text.

1. **Energy access:** Provide an estimate of the number of people with direct access to the project’s energy output and/or add to table in 29 below.

*Answer:* Click here to enter text.

1. **Energy security:** Provide details on how the project contributes to the diversification of energy supply, saving scarce energy resources, or reducing grid outages and/or in the number of people or systems with reduced reliance on traditional biomass, diesel, etc.) and/or add to table in 29 below.

*Answer:* Click here to enter text.

1. **Environmental benefits:** provide details on the direct environmental benefits of the projects, such as for example quantity of fossil fuel usage saved/ CO2 avoidance, fire wood usage saved (from reduced deforestation), amount of water conservation, waste reduction/landfill usage reduction, etc. and/or add to table in 29 below.

*Answer:* Click here to enter text.

1. **Health benefits:** provide details on the direct health benefits of the project, such as the expected reduction in respiratory diseases due to burning fire wood, the benefits of preserving and decontaminating food (or water) through refrigeration or cooking (heating).

*Answer:* Click here to enter text.

1. **Key performance indicators (KPIs):** list the KPIs set by the project team to evaluate and record the socio-economic and environmental impact of the project on the local community. Include gender empowerment indicators as relevant for your project. Add additional rows where necessary.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KPI** | **Description (Examples)** | **Target value** | **Units** | **Notes** |
| Accessibility | Number of people with increased access to energy |  |  |  |
| Affordability | Reduction in household income spent on fuel |  |  |  |
| Job creation | Increase in number of direct and indirect jobs |  |  |  |
| Energy security | Reduction in power outages |  |  |  |
| Environmental/ health | Fossil fuel usage saved/ Reduced deforestation/ CO2 avoidance/ reduced cases of respiratory illness |  |  |  |
| Other |  |  |  |  |

**Application submission checklist:**

Please ensure the following documents are submitted as part of the Full Project Proposal:

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement** | **Yes** | **No** | **Status** |
| 1. Completed application form
 |[ ] [ ]   |
| 1. Government guarantee letter
 |[ ] [ ]   |
| 1. Full feasibility study
 |[ ] [ ]   |

[ ]  **Check this box if you consent to allowing IRENA to share your project details as specified in the Executive Project Summary and this Full Project Proposal with other funding agencies or investors.**

**Project evaluation criteria**

The evaluation of the proposed projects will focus on their technical merit, commercial viability and socio-economic and environmental benefit. This will involve assessment of the extent to which projects are:

* transformative (expected to have a significant positive impact on the energy landscape, society, environment and/or business situation);
* replicable/scalable (show an effective, efficient business model for the given technology that can be replicated or scaled up, and/or involve a “solid and tested” approach); and
* innovative (e.g. an innovative business model that is financially viable and technically sound).

Projects must also:

* improve energy access (expressed in number of people to gain new access to clean energy, new connections to the grid or megawatts added to the power supply); and
* address energy security (expressed in terms of how the project contributes to the diversification of energy supply, saving scarce energy resources, or reducing grid outages and/or in the number of people or systems with reduced reliance on traditional biomass, diesel, etc.).
1. For more information about renewables resource availability, go to <http://globalatlas.irena.org/> [↑](#footnote-ref-1)