



FINANCIAL FUTURES
C E N T E R

Request for Proposal

DATA MODELLING FOR CLIMATE PROSPERITY PLANS

March 2023

Introduction to Aroha

Aroha was established with its seat in Geneva in 2017 as an independent, international non-profit organization operating worldwide. Aroha aims to avert climate chaos by mobilizing actions towards limiting global warming to 1.5°C, enhancing protection of vulnerable communities and ecosystems, and maximizing benefits of the transition to a climate resilient future.

Aroha hosts the Financial Futures Center (FFC): an economic and financial research initiative supporting developing countries to catalyze a transformation by optimizing core economic and climate responses together within the real economy.

Climate Prosperity Plans

The initiative of creating “Climate Prosperity Plans” (CPPs) to provide a roadmap for members of the Climate Vulnerable Forum & Vulnerable 20 (CVF/V20) to move from climate vulnerability to climate prosperity was officially launched by H.E. Sheikh Hasina, Prime Minister of Bangladesh, in October 2020. Through the Dhaka-Glasgow Declaration of November 2021 and its preparatory Regional Dialogues, more than 35 countries have expressed interest for developing such a plan.

The CPPs are conceived as strategic investment agendas to boost planetary prosperity and tackle climate threats. They aim to attract new investments to drive prosperity on the frontlines of the climate emergency. To do so, the CPPs offer an analysis of low-carbon and climate resilient options and provide recommendations for project typology on a country-specific basis, while also specifying financing structures and recommended investment pathways for implementation. CPPs also aim to highlight and quantify socio-economic benefits of a climate-smart approach to prosperity.

Purpose and modalities of the assignment

Aroha/FFC are looking for a contractor to conduct advanced renewable energy modelling for the creation of CPPs. This includes the provision of electricity data, systems modelling, and technical assistance to support the development and maintenance of CPPs.

Terms of reference

The objective is to provide electricity data, systems modelling, and technical assistance to support the development and maintenance of CPPs for the CVF/V20 member countries in Table 1. Outputs,



including source code, will be made available to CVF/V20 members for modification and redistribution to their stakeholders.

Model development

The Contractor will develop a CPP power system model to include grid modernization components and its impact on the power system, investment and jobs. This new RE model specific for CVF/V20 members aims to render realistic scenarios for the progression and development of the energy sector economy-wide, especially exploring maximized rates of RE production in the mix. The Contractor will work with the Aroha/FFC team towards the iterative development of this new RE model to the satisfaction of Aroha/FFC.

The Contractor will liaise with developers of the CPP model to ensure the full integration of the renewable energy components developed by the Contractor.

Table 1. Tentative timeline for the development of CPPs for CVF/V20 members

Timeframe	CVF/V20 members
H1 2023	Ghana, Maldives, Sri Lanka, The Gambia, Costa Rica, Lebanon and Senegal
H2 2023	Benin, Ethiopia, Fiji, Kenya, Marshall Islands and the Philippines
2024	Bhutan, Cambodia, Côte d'Ivoire, Democratic Republic of Congo, Dominican Republic, Eswatini, Guatemala, Guinea, Haiti, Kiribati, Liberia, Morocco, Nepal, Nicaragua, Palau, Palestine, Rwanda, Samoa, Tunisia, Uganda and Tuvalu
2025	Additional CVF/V20 members and update the aforementioned countries upon request

Model outputs

Subject to Table 1, the Contractor will provide the following in excel format (xls):

- Energy demand by sector and energy source (energy balance/year)
- Power generation capacity by technology (MW in each year)
- Power generation by technology (MWh/year)
- Cost of technology (capital and O&M, per MW in each year)
- Total investment required (timeframe) per year for new capacity plus grid
- LCOE by technology (incl. timeframe)
- Average electricity price at the country level
- Energy access (access to electricity, % of population)
- Number of new jobs in power generation and grid
- 2-3 further model outputs to be jointly defined (TBD)

Technical assistance



Subject to Table 1, the Contractor will provide the following:

- Undertake preliminary research to support the development and refinement of the modelling
- Standard technical sizing, associated costs, and financial structuring guidance on power projects (renewable energy, storage and grid)
- Show which existing plants are under utilized and would benefit from early closure
- Show which future plants are best to remove from the project pipeline
- Assessing transition opportunity for CPP countries including cost and investment required to transition and technical impacts to the power system, starting with Ghana

Stakeholder training

Subject to Table 1, the Contractor will provide the following:

- Open access to models, datasets, and model documentation
- In-country training on FEO Global’s user interface with FFC

Award criteria

Award criterion	Maximum score	Minimum score/Threshold
Technical award criteria (quality of the proposal), including the following sub-criteria:	70	35
<ul style="list-style-type: none"> • Suitability of proposal to Aroha/FFC needs and solutions to potential challenges facing Aroha/FFC. 	10 points	5 points
<ul style="list-style-type: none"> • Understanding of the concept, purpose and scope of the CPPs and suitability of the proposed contribution to such plans. 	10 points	10 points
<ul style="list-style-type: none"> • Suitability of the proposal to respond to the renewable energy modelling needs of the CPPs. 	20 points	10 points
<ul style="list-style-type: none"> • Adaptability of the proposed model to country-specific contexts, including flexibility of indicators available for modelling for a given country. 	20 points	5 points
<ul style="list-style-type: none"> • Suitability of the proposal for integration into a standardized process of CPP development. 	10 points	5 points
Price	30	
Total	100	



Minimum score per technical award criterion (threshold):

Proposals scoring less than 50% of the maximum score for any technical award criterion will be considered of insufficient quality and rejected.

Minimum total score for technical award criteria (threshold):

Proposals scoring less than 50% will be deemed to be of insufficient quality and eliminated from further consideration.

Aroha/FFC will inform all bidders about the outcome at the end of the evaluation process.

Exclusion criteria

Bidders must provide a Declaration of Honor (see Annex 1), duly signed and dated, including a statement that they are not in any of the situations listed in EU Directive 2014/24. Bidders may be excluded from participation in the present procurement procedure if they are found to be in one of the situations for exclusion or fail to submit the abovementioned declaration.

How to submit a proposal

Proposals need to be submitted to the following address: contracting@aroha.ngo. The deadline for submission is **15.03.2022 at 17:00 CET**.

The proposal should clearly state the following bidder information:

- Official name
- Official address
- Official legal form or sole expert status
- Designated contact point

The proposal should contain both a technical proposal (including the demonstration of understanding of the assignment, the deliverables, and the proposed methods) and a financial proposal that accounts for a payment structure in stages as described above. It must also include the signed Declaration of Honor (Annex 1).

Any questions regarding the assignment must be sent to contracting@aroha.ngo before 12.03.2022.

Annex 1

DECLARATION ON HONOUR REGARDING EXCLUSION CRITERIA

Declaration on honour

The undersigned [*insert name of the signatory of this form*], representing:

Full official name: Official legal form: Statutory registration number: Full official address: VAT registration number: ('the Organisation ')

I – Situations of exclusion

(1) declares that the above-mentioned Organisation is in one of the following situations:	YES	NO
(a) it is bankrupt, subject to insolvency or winding-up procedures, its assets are being administered by a liquidator or by a court, it is in an arrangement with creditors, its business activities are suspended or it is in any analogous situation arising from a similar procedure;	<input type="checkbox"/>	<input type="checkbox"/>
(b) it has been established by a final judgement or a final administrative decision that the Organisation is in breach of its obligations relating to the payment of taxes or social security contributions in accordance with the applicable law;	<input type="checkbox"/>	<input type="checkbox"/>
(c) it has been established by a final judgement or a final administrative decision that the Organisation is guilty of grave professional misconduct by having violated applicable laws or regulations or ethical standards of the profession to which the Organisation belongs, or by having engaged in any wrongful conduct which has an impact on its professional credibility where such conduct denotes wrongful intent or gross negligence, including, in particular, any of the following:		
(i) fraudulently or negligently misrepresenting information required for the verification of the absence of grounds for exclusion or the fulfilment of eligibility or selection criteria or in the performance of a contract or an agreement;	<input type="checkbox"/>	<input type="checkbox"/>
(ii) entering into agreement with other parties with the aim of distorting competition;	<input type="checkbox"/>	<input type="checkbox"/>
(iii) violating intellectual property rights;	<input type="checkbox"/>	<input type="checkbox"/>
(iv) attempting to influence the decision-making process of the contracting authority during the award procedure;	<input type="checkbox"/>	<input type="checkbox"/>
(v) attempting to obtain confidential information that may confer upon it undue advantages in the award procedure;	<input type="checkbox"/>	<input type="checkbox"/>



(d) it has been established by a final judgement that the Organisation is guilty of any of the following:		
(i) fraud, as defined in applicable laws and regulations;	<input type="checkbox"/>	<input type="checkbox"/>
(ii) corruption, as defined in applicable laws and regulations;	<input type="checkbox"/>	<input type="checkbox"/>
(iii) conduct related to a criminal organisation;	<input type="checkbox"/>	<input type="checkbox"/>
(iv) money laundering or terrorist financing, as defined in applicable laws and regulations;	<input type="checkbox"/>	<input type="checkbox"/>
(v) terrorist offences or offences linked to terrorist activities, or inciting, aiding, abetting or attempting to commit such offences;	<input type="checkbox"/>	<input type="checkbox"/>
(vi) child labour or other offences concerning trafficking in human beings as defined in applicable laws and regulations;	<input type="checkbox"/>	<input type="checkbox"/>
(e) it has been established by a final judgment or final administrative decision that the Organisation has created an entity under a different jurisdiction with the intent to circumvent fiscal, social or any other legal obligations in the jurisdiction of its registered office, central administration or principal place of business.	<input type="checkbox"/>	<input type="checkbox"/>

II – Situations of exclusion concerning natural or legal person with power of representation, decision-making or control over the legal Organisation and beneficial owners

	YES	NO	N/A
(2) declares that a natural or legal person who is a member of the administrative, management or supervisory body of the Organisation, or who has powers of representation, decision or control with regard to the above-mentioned Organisation (this covers e.g. company directors, members of management or supervisory bodies, and cases where one natural or legal person holds a majority of shares) is in one of the following situations:			
Situation (c) above (grave professional misconduct)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Situation (d) above (fraud, corruption or other criminal offence)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Situation (e) above (creation of an entity with the intent to circumvent legal obligations)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III – Remedial measures

If the Organisation declares one of the situations of exclusion listed above, it must indicate measures it has taken to remedy the exclusion situation, thus demonstrating its reliability. This may include e.g. technical, organisational and personnel measures to prevent further occurrence, compensation of damage or payment of fines or of any taxes or social security contributions. The relevant documentary evidence which illustrates the remedial measures taken must be provided in annex to this declaration. This does not apply for situations referred in point (d) of this declaration.

IV – Evidence upon request



Upon request the Organisation must provide information on natural or legal persons that are members of the administrative, management or supervisory body or that have powers of representation, decision or control, including legal and natural persons within the ownership and control structure and beneficial owners. It must also upon request provide production of recent certificates issued by the competent authorities and/or a recent extract from the judicial record or, failing that, an equivalent document recently issued by a judicial or administrative authority in the country of establishment of the Organisation showing that those requirements are satisfied. These documents must provide evidence covering all taxes and social security contributions for which the Organisation is liable, including for example, VAT, income/company tax and social security contributions.

V – Selection criteria

(3) declares that the above-mentioned Organisation complies with the following selection criteria	YES	NO	N/A
(a) It has the legal and regulatory capacity to pursue the professional activity needed for performing the Services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) It fulfils the applicable technical and professional criteria necessary for providing the Services.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI – FINAL

The signatory declares that the above-mentioned Organisation has truthfully provided the information herein.

The above-mentioned Organisation shall immediately inform the contracting authority of any changes in the situations as declared.

The above-mentioned Organisation may be subject to rejection from the contracting or selection procedure and to legal claims if any of the declarations or information provided as a condition for contracting with Aroha/FFC prove to be false.

Full Name of Authorized Representative or Expert:

Date:

Signature: