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Planning

Data to inform DESNZ's Global Carbon Finance Model (GLOCAF)

Department for Energy Security & Net Zero

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-020402

Procurement identifier (OCID): ocds-h6vhtk-047a87

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Section I: Contracting authority

I.1) Name and addresses

Department for Energy Security & Net Zero

3-8 Whitehall Place

London

SW1A 3EG

Email

internationalclimateandenergy.procurement@energysecurity.gov.uk

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

<https://www.gov.uk/government/organisations/department-for-energy-security-and-net-zero>

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Ministry or any other national or federal authority

I.5) Main activity

Environment

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Data to inform DESNZ's Global Carbon Finance Model (GLOCAF)

Reference number

prj_3965

II.1.2) Main CPV code

- 73110000 - Research services

II.1.3) Type of contract

Services

II.1.4) Short description

The Global Carbon Finance Model (GLOCAF) is DESNZ's in-house model of hypothetical international carbon markets and global decarbonisation scenarios at 5-yearly time horizons up to 2050. It is used to provide a robust evidence base to inform UK international climate change policy and strategy, modelling the most cost-effective distribution of abatement across sectors and regions given different abatement targets at global, regional or sectoral levels.

The aim of a data procurement is to provide an updated dataset of emissions from energy and industry Sectors; carbon dioxide and non-carbon dioxide emissions, e.g. methane; and abatement costs across a regional and sectoral disaggregation used as inputs to the GLOCAF model.

II.1.5) Estimated total value

Value excluding VAT: £220,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 73110000 - Research services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

From an international perspective, outputs from the GLOCAF model inform the UK's understanding of global decarbonisation scenarios and implementation of international climate commitments.

Domestically, GLOCAF outputs are used as part of the evidence base that informs the emissions targets included in domestic legislation, as set out in the carbon budgets orders and in the net zero 2050 target.

GLOCAF currently allows modelling of up to 26 countries/regions (including emissions from international aviation and maritime transport as separate 'regions'). Together, these countries/regions provide global coverage. For example, the Americas are currently split into six countries/regions: Canada, USA, Mexico, Rest of Central America, Brazil, and Rest of South America. GLOCAF can currently model up to 27 sectors.

The aim of a data procurement is to provide an updated dataset of emissions from energy and industry Sectors; carbon dioxide and non-carbon dioxide emissions, e.g. methane; and abatement costs across a regional and sectoral disaggregation used as inputs to the GLOCAF model.

The necessary breakdowns are summarised as follows:

Historic data and projections of emissions from energy and industry sectors, including process emissions, and the costs of reducing them are required, at global coverage, for the years 1990 – 2050 at 5-yearly intervals:

1. historic data with projections of a Business as Usual [BaU] / Current Policy scenario
2. and the costs of reducing emissions to be modelled in the form of marginal abatement cost curves [MACCs] for at least the period 2030-2050.

The BaU provides a counterfactual from which MACCs can be subtracted to model future emissions projections given different action scenarios. It is necessary that the MACCs reflect a range of action pathways. Traditionally the MACCs have simulated 3 approaches to climate action: progressive climate action policy adoption, or rather a linear adoption of increased climate ambition policies; early action reflecting largescale, near term investment in climate ambition policies and technology, modelling greater abatement costs in the short-term, but low abatement costs overall; and delayed action where action is deferred and the curve of abatement follows an exponential growth shape reaching high marginal costs.

We will be running an open procurement anticipated to be launched in the weeks commencing 10th July and is anticipated to run for 5 weeks.

The ITT objective will be to identify a supplier who can provide:

1. the data as outlined above in an excel, csv. or comparable file format
2. An accompanying report explaining the scope and limitations of the data
3. Weekly engagements for the Authority to keep abreast of methodology, review data and challenge assumptions for improvements to be actioned in a timely manner
4. At a minimum two presentations with stakeholders at key delivery milestones.

The deadline for this activity will be mid-February 2025. It is anticipated that the Cabinet office's Short Form Contract terms and conditions would be used for this contract and bidders will be evaluated on their price, proposed methodology, team, contract management abilities as well as social value.

II.2.14) Additional information

If you wish to be notified of when the Contract Notice is published for the commencement of the competition, and/or any queries relating to the competition prior to this launch, please email internationalclimateandenergy.procurement@energysecurity.gov.uk

II.3) Estimated date of publication of contract notice

12 July 2024

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes