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Cnt_705040450 – FUTURE ENERGY TRIAL (ELECTRICITY GENERATION) REQUEST FOR INFORMATION

Potential Opportunity

1. The Innovation team within Defence Support Transformation, Strategic Command (UK MOD), wish to inform potential suppliers of an intended procurement to acquire the services of a suitably skilled and qualified supplier to undertake a trial of an electricity generation system using green fuels to charge vehicles at locations with limited electrical power. This trial would be used to inform the future power generation solution to recharge Electrical Vehicles (EVs). The installed equipment during the trial and any potential follow-on activity will be a temporary solution until the appropriate electrical infrastructure can be installed to meet the need.
2. This RFI Notice has been published, as an initial enquiry only, to obtain information from potential suppliers and/ or independent experts to develop a robust requirement and procurement/ commercial strategy. This RFI is not a commitment to launch a formal procurement procedure or to ask potential suppliers to express an interest in the requirement.
3. Link to the Defence Sourcing Portal (DSP) Opportunity Listing and RFI Notice:

High Level Statement of Need

4. With the increasing electricity power requirement, due in part to the increase in EVs, this uplift has been limited by the power availability on sites. The Authority is keen to understand the green fuelled power generation options that exist to inform a future trial.
5. For potential suppliers' awareness, the Authority is keen to understand the green fuels mix available to meet this requirement such as battery storage and solar panels.
6. The Authority wishes to engage early with the market with the objective of gathering knowledge in these key areas:
 - 6.1 to engage and gain potential suppliers' opinion on the viability of the concept.
 - 6.2 to gain insight to the market possibilities and potential innovative solutions.
 - 6.3 to understand potential risks and issues.

RFI Notice Key Dates

7. RFI responses must be submitted electronically via Paul.Hayes105@mod.gov.uk by 1200 on the 9 September 2022.

Additional Information

8. This RFI will give potential suppliers the opportunity to comment on the proposed requirement and perhaps offer alternative solutions to better inform the trial.
9. The Authority reserves the right to choose not to approach the market for formal expressions of interest, and if potential suppliers choose to act on any information, it is entirely at their own risk. Any resulting formal procurement procedure will be conducted competitively.
10. Potential suppliers will bear all costs associated with preparing and submitting the RFI responses. The Authority will not be liable for the costs of any work or effort incurred by potential suppliers participating in this RFI, including where the Authority decides not to launch a formal procurement procedure.
11. The Authority reserves the right to seek clarification or additional information or documents in respect of potential suppliers' responses where necessary.

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12. Potential suppliers' responses to an RFI may be marked as commercially sensitive if they include technical, financial or other commercially sensitive information.
13. RFI responses provided by potential suppliers will not be carried forward, used or acknowledged for the purpose of evaluating the potential supplier in any subsequent formal procurement procedure.
14. If a potential supplier does not respond to this RFI, it will not prevent their participation in any subsequent formal procurement procedure.

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Annex A – RFI Questions. The list below is not exhaustive, there may also be occasions where the full level of detail is not available but the intent is to gain a view on how suitable the product is for expansion within the MOD.

Ref	Question	Response (no word limit)
1.	To gain insight to the market possibilities, please explain: a. Technical solutions to meet the RFI. b. The green fuel mix choices available, to include availability, ease of handling of the fuel and the estimated operating cost per kWh. c. Indicate if a lease option is available. For the trial, this is likely to be a preferred option. d. Remote system monitoring options. e. User access control, key code or RFID system or similar. f. If there is a private user charging system available.	
2	Please comment on the following supply chain considerations: a. Supply chain resilience for the system and any supply chain interdependencies. b. Lead Times from order to delivery. c. How long it would take your organisation to complete total build of the equipment to first charge on location (UK based). c. Detail key component lead times and countries of origin.	
3	To gain opinion on the viability and operating nature of the product please detail: a. The servicing schedule and indicative costs. b. Detail support logistics (servicing and spare parts required). c. Environmental infrastructure and training required to support the system. d. How will system failures be rectified. e. Demonstrate system reliability. This may also reference environmental conditions or factors that may impact on the system, such as dust or purity of fuel and describe the mitigation(s).	
4	To understand system operation and transportation risks whilst operating at either end of European climatic conditions please comment on. a. Transportation requirements. b. Site selection. c. Operation, to include user experience of charging EVs. d. Nature and handling requirements of any waste products. e. Any other system operating risks that might be present such as the system process operating at hot/cold temperatures, electrical and fire risk and safety.	

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6	To inform the Authority's strategy, please comment on the types of social value that could be delivered by your organisation on this requirement across the themes: a. Covid-19 Recovery b. Tackling economic inequality c. Fighting climate change d. Equal opportunity e. Wellbeing Please provide a short commentary explaining your answer.	
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