

**Question for written answer E-000293/2024  
to the Commission**

Rule 138

**Aldo Patriciello (ID)**

Subject: CleanHME programme and 'low-energy nuclear reactions' (LENR)

ARPA-E (USA) has funded eight research and demonstration projects<sup>1</sup> through a call for proposals with a budget of USD 10 million to select one or more promising avenues for further development.

A NASA document<sup>2</sup> confirmed the strength of the commitment of various Japanese business actors based on the LENR phenomenon and the 'Japanese LENRs' are mentioned as one of three possible solutions to climate issues.

In view of the above:

1. In light of the establishment of the EU's CleanHME programme and the possibility that a new project on the proposed topics could have an impact – either as a new green energy technology or as a means of disposing of harmful waste with the production of useful materials – what action does the Commission intend to take in this regard?
2. In particular, will the new programme aim to obtain substantial and shared evidence of the existence and characteristics of the phenomenon, starting with the reproducibility and repeatability of the results and providing standardised programmes and materials so that knowledge can be compared and built on between the different groups active in the world?
3. Does the Commission intend to assess the creation of demonstrator prototypes with an appropriate Technology Readiness Level (e.g. TRL > 5)?

Submitted: 31.1.2024

---

<sup>1</sup> <https://www.ans.org/news/article-5526/focused-energy-partners-with-llnl-on-inertial-fusion-energy-targets/>

<sup>2</sup> <https://ntrs.nasa.gov/api/citations/20230005204/downloads/NASA-TM-20230005204.pdf>