

**EUROPEAN PARLIAMENT**  
**Preliminary proposal**  
**Pilot Project/Preparatory Action**

Assessment phase

Pilot Project

New Proposal

**Title**

Establishment of a European virtual platform and forum for identifying challenges for the definition of technical standards, for exchanging best practices and developing collaborative testing experiences for the adoption of blockchain technology for P2P energy sharing

**Author: MEP**

Dario Tamburrano

**Contact info**

Andrea Leonardelli

**Preferred DG**

DG Energy and DG Connect

**SECTION III: Commission**

|                     |   |
|---------------------|---|
| <b>HEADING:</b>     | <div style="border: 1px solid black; padding: 2px;">1A. Competitiveness for growth and jobs</div> <small>Please select the corresponding MFF heading. Contact your group advisor or committee administrator for guidance.</small>   |
| <b>BUDGET LINE:</b> | <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px;">32</div> <div style="border: 1px solid black; padding: 2px;">02</div> <div style="border: 1px solid black; padding: 2px;">77</div> <div style="border: 1px solid black; padding: 2px;">XX</div> </div> <small>Designates classification used to arrange the data in the budget (for instance 09 04 77 12, with 77 referring to the correct chapter for PPPAs). Contact your group advisor or committee administrator for guidance.</small> |

|                             | Amounts proposed <sup>1</sup> |            |
|-----------------------------|-------------------------------|------------|
|                             | Commitments                   | Payments   |
| <b>Appropriations (EUR)</b> | 800.000,00                    | 400.000,00 |

Suggestion: for NEW PPPAs, payments could be set at half of the proposed commitments; for ONGOING PPPAs, payments could be set at half of the proposed commitments plus outstanding payments of previous year(s).

**Remarks**

The project idea is developed as a follow-up of the feasibility study that DG Energy is already performing about the use of blockchain technology. The project aims to set up a platform for exchanging best practices and technical advices, based on the experience made so far in the different Member States and local communities, in order to support the development of testing

facilities useful for the identification of harmonised and interoperable systems for sharing energy using distributed ledgers.

In the market there are new actors, opportunities and challenges deriving from the novelties established when defining the new design of the electrical system. Harmonisation and interoperability of the different initiatives could be key for establishing benchmarks for the use of these technologies in the next years, also taking into consideration the increasing connectivity and the need to have smart solutions ready to be implemented.

The virtual platform should involve representatives from all interested stakeholders and be open to all kind of contributions coming from potential users, active consumers and all citizens in general. It should help the construction of a permanent forum that should be monitored and coordinated by the European Commission. It could then be used to discuss the initiatives that derive from the Observatory on Blockchain, creating a sort of permanent consultation forum helping the brainstorming of an entire community of innovators, developers, stakeholders, traditional actors, active citizens that are working already with many concrete examples throughout Europe.

The Commission could use the platform to better disseminate information on this niche sector, knowing that a central input to develop common rules, standards and practices is always an advantage for the creation and the operation of new instruments that could then better interoperate, if the need arises, when the European electrical network will be ready.

Once per year the Commission should favor the launch and coordination of a sort of a Blockchain for Energy Hackaton focusing on very specific challenges helping the solution and development of those standards that must become the basis for all private and public initiatives on the sector.

### **Justification**

The electrical grid will be increasingly decentralised. Distributed ledgers, in combination with smart meters and storage facilities, have the potential to open new ways of sharing energy between prosumers. Based on the findings fo the feasibility study that is currently being performed on this issue, the virtual platform would allow a permanent discussion and exchange of best practices and gather the most suitable initial experiences that are put forward by the private and public sectors to reinforce the European approach to P2P sharing of electricity.

**Committee to send:** ITRE