

## PARTNER SEARCH

### Partner: LUTRA GmbH- Port Königs Wusterhausen: Project Idea: Development and Demonstration of a „Virtual Power Plant“

#### *Funding Opportunity:*

MG-7.3-2016. The Port of the Future (as part of the Horizon 2020 “Transport” Work Programme 2016/2017)

#### *Setting the scene*

As part of the upcoming Horizon 2020 “Port of the Future” call for proposals (expected publication: September 2015) new port infrastructure concepts are sought. Proposals are expected to present concepts which go beyond current developments in fields such as logistics, multimodal transport or energy efficiency. The following elements are being addressed by the call (may be subject to change):

- Multi-modal optimised cost-effective and flexible operations inside the terminal and in the wider port area.
- Sustainable maintenance, repair and reconfiguration.
- Better capacity management with reduced costs and land use.
- Low environmental impact, climate change adaptation, and moves towards the circular economy.
- Advanced and efficient links and integration in the socio-economic industrial and urban surrounding environment efficient connections with the hinterland transport network.
- Efficient connections with the hinterland transport network contributing to an increased use of the most energy-efficient transport modes, in particular rail.

The funding conditions are (may be subject to change):

- **Funding amount:** between € 1 and 5 million, 100% of direct project costs are funded
- **Consortium partners:** at least 3 partners from 3 different EU Member States or Associated Countries<sup>1</sup>
- **Deadline:** 2016 (no detailed information can be given at this point)
- **Project launch:** approx. 8 months after the deadline (expected end of 2016 or in 2017)

LUTRA GmbH is the operator of the inland port of Königs Wusterhausen, located near Berlin, Germany. **The company is interested in applying for the “Port of the Future” funding opportunity to use the port location as a demonstration platform for new port concepts.**

#### *Project Idea*

LUTRA, together with local industry partners, envisages to **demonstrate a virtual power plant integrating various renewable energy providers in the port infrastructure**. The idea is to cover the energy demand of the port itself, as well as the local industry residing within the port area. An important aspect is also the creation of capacities to attract additional industry settlement in the future.

The project idea is envisaged to be realized at the LUTRA inland port at Königs Wusterhausen, close to Berlin, Germany. The port is expected to act as a demonstration platform. The virtual power plant idea consists of the following elements:

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<sup>1</sup> A list of countries associated to Horizon 2020 can be found here:

[http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/3cp/h2020-hi-list-ac\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cp/h2020-hi-list-ac_en.pdf)

- Facilities to supply renewable energy, which either already exist or with a planned construction start within the coming months. A wind farm, a biogas plant and a biomass cogeneration power plant are envisaged to constitute the core of renewable energy supply.
- Intelligent electricity- and heat grid (partially already existing in the port area)
- A regional biomass-management system integrating biomass supply, processing and recycling with the help of innovative technologies (first concepts have been developed).

It is envisaged to integrate the above mentioned elements as part of an innovative virtual power plant, which goes beyond the current state of the art. **LUTRA is interested in discussing innovative virtual power plant concepts with potential partners.**

The project idea is expected to fall within a comprehensive sustainability concept, lying at the core of LUTRA's decision to engage in Europe-wide cooperation and apply for EU funding as part of the "Port of the Future" call. **LUTRA is open for partner suggestions interested in integrating the "virtual power plant" concept into their proposal.**

*Contact Information:*

If you are interested in working with LUTRA, please contact:

Damian Borowski

Regional Manager

Phone: +49 30 206 715 712

E-mail: [dborowski@lnegroup.com](mailto:dborowski@lnegroup.com)