

PED EU NET Short Term Scientific Mission Hosting proposal

Short-Term Scientific Mission consists in a visit to a **host organization** located in a different country than the country of affiliation (for Affiliation, see Article 4.1.1.1.1) by a researcher or innovator for specific work to be carried out and for a determined period of time. Short-Term Scientific Missions benefit:

- STSM Grantee: receives funding for implementing a project with an international team and gains new knowledge or access to equipment or techniques not available in the home institution;
- STSM Host: receives an international partner in their institution and can develop long lasting collaboration.

STSMs need to be carried out in their entirety within a single Grant Period and always within the Action’s lifetime. Successful STSM applicants are financially supported by the Action with a contribution of up to 3000 EUR. STSM Grants do not necessarily cover all expenses related to undertaking a given mission. A STSM Grant is a contribution to the overall travel, accommodation and meal expenses of the Grantee. STSMs should support COST policies on promoting gender balance, enabling Early Career Investigators (ECI), broadening geographical inclusiveness.

HOST Institution:	Name: Technical University of Denmark, DTU Management Country: Denmark ITC Country: no Website: https://www.man.dtu.dk/english
Supervisor of the STSM:	Name: Per Sieverts Nielsen Position: Senior researcher Email: pernn@dtu.dk Phone : +45 2489 3786 PED-EU-NET MC Member: yes
Preferred timing:	(*Stay has to be between 01.02.2023 – 15.09.2023) After April 26.
The topic/scope of the proposed research and its relevance for PED EU NET Action	
<p>One of the Task in the Working Group 3 “PED Laboratories, Monitoring and Replication” it’s “T3.4 Develop common protocols for testing, monitoring, evaluation and replication of PEDs and PED Lab” and one good example of a District Urban to develop is in E/F Hvidovrevang, that’s a residential community with 240 apartments. The flats are in 40 stairways with 6 apartments in each stairway. It means it is 3 story buildings and they are divided between five buildings. The apartments are 3 rooms with an area of 55 to 75 m2. The community is heated with centralised heating connected to the Copenhagen district heating network. The community has recently established four charging points for eVs. Most of the apartments are owner occupied. E/F Hvidovrevang is situated in Hvidovre Municipality approximately 8 km from the center of Copenhagen. The connection to DTU is that senior researcher Per S. Nielsen lives in this community and he has asked the board of the housing association to evaluate the potential for investing in a solar PV system on the roofs. The occupants are diverse between gender, age, country of origin. Although most will have Danish as their mother tongue it is not a problem to communicate in English.</p> <ul style="list-style-type: none"> • What is the regulation framework for developing community owned a Solar PV systems in Denmark? • How much of the electricity consumption in E/F Hvidovrevang can be covered? • Survey on the Residents and Municipalities in E/F Hvidovrevang how they understand the possible multiple benefits that can be obtained by implementing PED and PED Labs in an Urban District; and what is they attitude towards a solar PV system on the roof. • Propose scientific metrics to identify and monitor outcomes and impacts if you become a PED or PED-Lab. • Evaluation of different kind of ownership models. This evaluation will/could be connected to evaluation of the regulative framework in Denmark as the regulation may have an impact on ownership structure. This will also depend on internal rules within the community. 	
Potential applicant requirements:	
<p>The decision to evaluate the option is recent so the potential candidate can choose to work on one of the topics. The student will work and share resources at DTU, which is the host. Through Per S Nielsen it is possible to establish direct contact with the community when and if required. The establishment of an internal working group within E/F Hvidovrevang will happen April 26 – so the research will have to be carried thereafter.</p>	