

Édition 2024 : Appel à projets et Journées de rencontre de la Graduate Initiative EIF.



ID de Contribution: 17

Type: **Stage de niveau M2**

Building Integrated Photovoltaic (PV) Systems Energy production modelling in urban environment

vendredi 12 juillet 2024 11:40 (20 minutes)

The purpose of the Master thesis relies on impacts of massive integration of photovoltaic (PV) panels and PV power plants within urban environment. The first objective of the proposed study is to investigate the contribution of PV systems and their layout (facades and roofs) on the local urban warming. The effects of radiative coatings to enhance cooling of PVs and as consequence the PV power generation management will be also investigated. This work will be based on CFD simulations, energy balance of PV panels and data processing such as deep learning, neural networks. eural networks.

Laboratoire du porteur

LAGEPP

Montant du financement (si stage 600euros*nbmois) :

3600

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Classification de Session: Session 3B

Classification de thématique: Présentation: Session 3B