

**Research program:**  
***“Innovation on plant components for the production of renewable energy applicable to smart city”***

***Annex C***

**Department of Department of Management Engineering, information and production**

**Tutor: Prof. Davide Russo**

**Research activities:**

The research program aims at developing paradigms of product development based on the use of CAI (Computer Aided Innovation) tools for the design of new products and technical problems solving. The following activities are planned:

- Creation of a methodological approach to design systems for renewable energy generation applicable to smart city:
- Patent analysis for the identification of alternative technologies to be transferred in the sector of the production and conversion of renewable energy
- Overcoming contradictions and development of technical solutions compatible with the functional design requirements
- Experimentation with real test cases that involve the different issues mentioned in the previous activities.