

République Tunisienne Ministère de l'Enseignement Supérieur et de la Recherche Scientifique Université de Tunis El Manar Ecole Doctorale STI





Thesis

submitted in partial fulfilment of the requirements of the

Research Master's Degree

in Electrical Systems

by

JEBALI Safa

Study and Implementation of a Photovoltaic Agent in an Intelligent Multi-Agent System for Energy Production Optimization in a Residential Microgrid

Defended on December 7, 2024 before the jury:

Chairman : Monia BOUZID Associate Professor Reviewer : Marwa Ben Said- Assistant Professor

Romdhane

Academic supervisor : Sondes SKANDER- Associate Professor

Mustapha

Company supervisor

Guest member :

Research Laboratory

Laboratory of electrical system



Academic year 2024/2025