

Master Thesis Brief Description

Thesis Title	Reward and Punishment measures to reduce energy consumption in the building sector
Programme of Studies	MSc in Sustainable Energy Systems
Course	MES 580 MSc Thesis
Area of Study	Energy Policy
Student's Name	Vasilis Mezos
Students Reg. Number	21116
Supervisor	Dr.-Ing. Paris A. Fokaides, Assoc. Professor, Mechanical Engineering Department
Supervisory Committee	Dr Byron Ioannou, Ass. Professor, Architectural Department Dr. George Karagiorgis, Assoc. Professor, Mechanical Engineering Department
Semester	Fall Semester 2022
Short Description	<p>In the past, incentives and punishments have historically served as deterrents to prevent citizens from violating state laws. However, with the advent of technology, environmental destruction has become a concerning issue, necessitating measures to reduce or prevent it. The excessive reliance on fossil fuels, such as coal and oil, stands as a prominent cause for concern. To combat climate change, it has become imperative to curtail energy consumption. Buildings have a significant impact on energy usage, and tenants contribute to this impact through their appliance usage and lifestyle choices. Introducing a reward and punishment program aimed at encouraging tenants to adopt more energy-efficient practices becomes crucial in promoting low-carbon and sustainable living. In the paper, the proposed rewards and punishments are outlined, aiming to incentivize energy reduction and penalize excessive energy use. The study sought to determine the effectiveness of this program in encouraging tenants to adopt energy-efficient behaviors, thereby contributing to a more sustainable future.</p>