

Platon Pallis

Teaching Staff /Energy saving & management – HVAC systems / School of Mechanical Engineering N.T.U.A.

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Dr-Ing. Platon Pallis holds a PhD in Mechanical Engineering from the National Technical University of Athens (NTUA), specializing in building energy efficiency, the optimization of technical building systems, energy management, and advanced thermal systems, such as combined heat and power (CHP) units and waste heat recovery systems for power generation. Currently, he serves as a member of the Laboratory Teaching Staff (EDIP) at the School of Mechanical Engineering of NTUA, where he actively contributes to teaching courses including "Energy Management", "Decentralized Thermal Systems", and "Thermal Power Conversion Plants". Concurrently, he possesses significant academic experience as an Adjunct Faculty Member (SEP) at the Hellenic Open University, instructing in the postgraduate program "Sustainable Design of the Built Environment" with an emphasis on heating and cooling systems. His research activities focus on the analysis and optimization of technical building systems, encompassing dynamic energy simulation, the deployment of specialized software, and the techno-economic evaluation of energy interventions.

Selected Publications

1. P. Pallis, N. Gkonis, E. Varvagiannis, K. Braimakis, S. Karellas, M. Katsaros, P. Vourliotis "Cost effectiveness assessment and beyond: A study on energy efficiency interventions in Greek residential building stock.", Energy and Buildings, <https://doi.org/10.1016/j.enbuild.2018.10.024>
2. P. Pallis, N. Gkonis, E. Varvagiannis, K. Braimakis, S. Karellas, M. Katsaros, P. Vourliotis, D. Sarafianos "Towards ZEB in Greece: a comparative study between cost optimality and energy efficiency for newly constructed residential buildings.", Energy and Buildings; <https://doi.org/10.1016/j.enbuild.2019.06.005>
3. Pallis, P., Braimakis, K., Roumpedakis, T., Varvagiannis, E., Karellas, S., Doulos, L., Katsaros, M., & Vourliotis, P. 2021. Energy and economic performance assessment of efficiency measures in zero-energy office buildings in Greece. Building and Environment. <https://doi.org/10.1016/j.buildenv.2021.108378>
4. D. Ioannidis, P. Rigopoulos, K. Braimakis, P. Pallis, S. Karellas, "Multi-objective ANN-driven genetic algorithm optimization of energy efficiency measures in an NZEB multi-family house building in Greece", Energy and Buildings, <https://doi.org/10.1016/j.enbuild.2025.116653>