


Event:
Date:
Place:

ENERGY in BUILDINGS 2019
Saturday September 28, 2019
Athens, Hellas



#	<p>Niki Gaitani Ph.D. in Energy Performance & Indoor Environmental Quality of Buildings, M.Sc. in Environmental & Building Physics, B.Sc. in Physics</p>	
Title:	<p>Senior Researcher & Project Manager at the Research Centre on Zero Emission Neighbourhoods in Smart Cities (ZEN Research Centre), Norwegian University of Science and Technology (NTNU), Trondheim, Norway</p>	
email:	<p>niki.gaitani@ntnu.no</p>	
Presentation title:	<p>Sustainable Plus Energy Neighbourhoods-syn.ikia H2020 project</p>	
<p>As the world debates actions to combat climate change, the success of reducing greenhouse gas (GHG) emissions rely to a great extent on the transition to a low carbon built environment and energy systems with improvements in energy efficiency and increase of energy flexibility.</p> <p>The overarching aim of syn.ikia project is to deliver a blueprint masterplan, including technical, financial, legal, and social issues, for the development of sustainable plus energy neighbourhoods in different contexts, climates, and markets in Europe.</p> <p>The project will enable an integrated design process at neighbourhood scale with the advancement and deployment of cutting-edge technologies, affordable resources, and cost-efficient solutions. Furthermore, non-technological elements, e.g. socio-economics, financing, spatial, regulatory and legal challenges, will be addressed.</p> <p>The syn.ikia master plan includes the following aspects:</p> <ul style="list-style-type: none"> • Plan, design and operate buildings and neighbourhoods to become climate neutral, highly energy efficient with a surplus of energy from renewable sources • Enable sustainable operation of buildings while improving user comfort and well-being • Manage energy flows within and between buildings and exchanges with the surrounding energy system in a smart and flexible way • Demonstrate economic sustainability, by minimising total life cycle costs and life cycle system costs • Plan and design buildings and neighbourhoods to provide good architectural and spatial qualities and stimulate sustainable behaviour and citizen engagement • Enable innovative processes based on new forms of cooperation between the involved partners leading to innovative solutions <p>These strategies will significantly contribute towards environment-friendly, healthy, resilient, secure, safe, and affordable living places and communities. The consortium comprises 13 partners from six countries.</p> <p>A key output of syn.ikia project will be four real-life demonstration projects in Norway, Spain, Netherlands and Hungary, that will serve as co-creation hubs for developing and testing of novel systems, technologies, and processes at four climatic types in Europe.</p>		

Event:

ENERGY in BUILDINGS 2019

Date:

Saturday September 28, 2019

Place:

Athens, Hellas



CV:

Dr Niki Gaitani is a Senior Researcher & Project Manager at the Research Centre on Zero Emission Neighbourhoods in Smart Cities ([ZEN Research Center](#)) at the Norwegian University of Science and Technology ([NTNU](#)).

She is a Senior Researcher in the field of building physics and urban climatology, with skill base on monitoring procedures and simulation tools. Her main research activities and expertise relate to the energy performance of buildings, the zero emission building and neighbourhood concepts, the physical properties of the materials, the urban climate, computational fluid dynamics for the evaluation of sustainable design strategies, thermal comfort in outdoor spaces and indoor environmental quality.

Dr Niki Gaitani has published 18 articles in refereed scientific journals and presented results at 28 international conferences. Her h-index is 11 and has received 804 citations.

She is a Reviewer for international scientific journals (e.g. Buildings and Environment, Energy and Buildings, Landscape and Urban Planning, Sustainable Cities and Society, Atmospheric Research, Energies). Currently she is Guest Editor at the Journal of Renewable and Sustainable Energy Reviews for the special issue on 'Methods and applications for quantitative assessment of renewable and sustainable energy solutions at the urban scale'. She has also been Evaluator at H2020 FET-OPEN project proposals.

Dr Niki Gaitani has participated in 20 EU funded research projects (RIA, IA, CSA, and MSCA ITN). She is the Coordinator of syn.ikia-Sustainable Plus Energy Neighbourhoods, H2020 (IA) project. E-mail: niki.gaitani@ntnu.no