


Name: Gürkan Sin		
Function:	Associate Professor in Chemical Engineering	
Institution:	Technical University of Denmark (DTU) <input type="checkbox"/> Funding Agency <input checked="" type="checkbox"/> WP leader	
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Division	CAPEC-PROCESS research center at Department of Chemical and Biochemical Engineering	
Areas of Expertise:		
Process systems engineering, process integration and modeling, process design and synthesis, process optimization and control, uncertainty and sensitivity analysis, model-based decision support tools		
Short Description of your Institution:		
<p>Founded in 1829, DTU is amongst Denmark's and Nordic countries foremost universities known for its success in the transfer of technology to society and the industry. DTU enjoys high ranking in the world, e.g. Leiden ranks DTU the world's 4th, the Europe's 4th and the Nordic's 1st university in industrial collaboration. THE ranks DTU the world's 34th, Europe's 8th and Nordic 2nd best university.</p> <p>At CAPEC-PROCESS we research in Process Systems Engineering where we develop model-based tools and methods for solving complex problems in (bio) chemical products and processes. We also focus on research activities, where intensified/integrated processes contribute to more resource-efficient processes and production concepts. The research center has significant experience with both coordinating and cooperating in a number of (ca 15 projects running) multidisciplinary large collaboration projects funded by both EU (Horizon 2020) and Danish funding agency (Innovationsfonden). http://www.kt.dtu.dk/english/research/capec-process.</p>		
Role in the project:		
<p>Dr. Gürkan Sin. as WP leader for WP6, will lead tasks on process integration, plantwide modeling (with GHGs and micropollutants dynamics), advanced uncertainty and sensitivity analysis, multi-criteria economic and environmental analysis, and superstructure based optimization as decision support tool for optimal WWTP process synthesis and design. The tasks aim to identify novel, energy efficient and sustainable WWTP configurations and to support process validation and optimization at pilot scale with project partners.</p>		