


Event:  
Date:  
Place:

**ENERGY in BUILDINGS 2018**  
Saturday November 3, 2018  
Athens, Hellas



<b>#</b>	<b>Raul Simonetti</b>	
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Presentation title:	<b>Optimising Efficiency at System level</b>	
	<p>Energy-efficiency schemes and regulations have so far very much focused on the efficiency of products, leading to a decrement of the used energy and generated pollution (relevant references are the EU Ecodesign Regulations, the US Energy Star® program or the Chinese Energy Efficiency Leader Scheme).</p> <p>Can any more be done? Yes, by pursuing the energy efficiency at system level.</p> <p>When products work together for common goals (i.e., the system's goals), they should be controlled so that the system-level efficiency be maximized rather than the efficiency of the single products. Managing systems by newly developed algorithms can further reduce the system's energy consumption; additionally, the introduction of active monitoring techniques (IoT, for instance) will help to keep the systems under control and provide a (quasi-)continuous fine-tuning.</p>	
CV:	<p>Degree in Electronic Engineering from the University of Trieste (Italy) in 1992. Following employment at DANIELI S.p.A., working in the design and set-up of automation systems for rolling mills, in November 2000 he joined CAREL as Climate Systems Application Manager. He worked with OEM customers on custom and new product requirements. He was also responsible for technical training and support on humidifiers and evaporative-cooling systems. From August 2015 he is HVAC/R Corporate Business Manager, taking care of the legislative and normative landscape in EU, USA, China, Australia, Japan and other Countries; he acts as CAREL Industries SpA's Representative at EPEE, a EU-based Association of heating and cooling Companies. He represents the Company at seminars and congresses in Italy and abroad, writing and presenting technical papers on humidification, evaporative cooling, and energy saving. He is a member of ASHRAE CEC and ASHRAE Technical Committee TC 5.11 Humidification Equipment.</p>	