



# “SMART GRIDS AND SMART CITIES” INTERNATIONAL SUMMER SCHOOL 6-8 June 2017 - Barcelona

## DAY 2: SMART CITIES

### TABLE 4: IMPLEMENTATION OF THE SMART CITY CONCEPT

**Growsmarter: low energy district for Smart Cities, the Barcelona Case.**  
**Alaia Sola, Catalonia Institute for Energy Research (IREC).**



Alaia Sola obtained her Chemical Engineering degree from the School of Industrial Engineering of Barcelona (ETSEIB) at the Universitat Politècnica de Catalunya (UPC) in 2011. On the framework of her Chemical Engineering studies, she studied at KTH Royal Institute of Technology (Sweden), through a 1-year student exchange program. There, she had the opportunity of starting her research activity at the

Department of Chemical Engineering of KTH thanks to a 7-months project focused on modeling and simulation of biofuels production processes. In 2015 she obtained the Nordic Master's Double degree in Innovative and Sustainable Energy Engineering from KTH Royal Institute of Technology and Aalto University (Finland), awarded with Distinction. She worked on her Master's thesis for the consulting engineering company Renetech in Stockholm (Sweden), in the field of biomass renewable energy production. In June 2015, she joined IREC as project engineer in the Thermal Energy and Building Environmental Performance Group focusing on waste heat recovery from industries and tertiary sector buildings, district heating and cooling systems, and integration of renewable energy sources on thermal systems. Since July 2016 she is working as project engineer in the Energy Systems Analytics group of the Electrical Engineering Area of IREC, focusing her research on the field of Energy in Smart Cities and Communities.