

Circular Economy and Sustainable Materials for construction sector

According to a study of the European Commission, the construction sector is responsible for 40% of primary energy demand in the European Union and 36% of greenhouse gas emissions. In Italy the residential sector contributes 27.9% to energy demand and 24.2% to climate-changing emissions. These numbers alone should make us understand that the materials and construction techniques used so far must be reformed from the ground up to reduce the sector's impact on the environment. Community policies and national regulations on construction sustainability have initiated a change in the sector but there is still much to be done.

During the speech I will show some case studies and good practices that the research sector has developed and which can be implemented by acting simultaneously on both a cultural and regulatory level. I will talk about the regulatory limits and existing bottlenecks that limit the use of more sustainable materials and techniques that would allow the construction sector to be greener.

Finally, some proposals to accelerate the adoption of the solutions that the research sector has already developed.