



Biotonomy, based in Malaga, Spain, and founded by Moein Nodehi, stands at the forefront of transforming the built industry, offering a range of benefits that are as diverse as they are impactful.

The company pioneers autonomous, regenerative buildings and infrastructures that harness biomimicry, renewable energy, and circular water systems to reduce carbon emissions, energy use, and resource consumption while enhancing biodiversity and well-being.

Awards & Recognitions

- Top 20 innovative solutions contributing to the Sustainable Development Goals (SDGs) and the New Urban Agenda by the UN-Habitat.
- In 2019, Biotonomy's project was showcased by the UN at the World Habitat Day,
- Best sustainability and rehabilitation project in the hotel industry in Spain.
- First prize of the Innosocial Malaga 2023 Awards
- The award for Best Sustainable Initiative in the Architecture and Construction sector by Diario SUR and Bano BBVA in collaboration with Avanza

Their core services include:

- Designing autonomous buildings that generate clean energy, treat and reuse water, and operate with up to 100% lower energy needs for heating and cooling.
- Delivering green infrastructure like vertical ecosystems and living walls that clean the air, regulate temperatures, and revitalise urban spaces. They use greywater recycling and hydroponic systems to create self-sustaining biophilic environments.
- Providing architecture, engineering, construction, and maintenance services grounded in nature-based design principles.




“Founder's Tips”

When you are a start-up, you have a new product in the market, you should always focus on giving first, and as you're giving, you're also building a community, which is key and fundamental.


Nature-based Solutions are very attractive to a wide range of people, from private developers to the public sector to citizens. So, it's important to adapt your pitch and its fundamental how you pitch it.

Urban Regeneration




 Spain

In collaboration with AccorInvest, a facade for Novotel Madrid with a smart green wall and integrated water recycling system. This project reflects Accor's commitment to sustainability, turning the hotel into a model of circular design, reducing water use, improving comfort, and adding long-term value.

 Austria

Biotonomy collaborated with local contractors in Austria to conceive and construct this cutting-edge Autonomous Home. Engineered with a Nature-Based heating and cooling system, the building boasts the remarkable capability to generate and recycle its own water supply. With an impressive water storage capacity of 30,000 liters, this residence stands as a testament to self-sufficiency in water, heating, cooling, and sanitation.



 Spain



Aldi, one of Europe's leading supermarket chains, has recently taken a bold step toward environmental innovation by integrating nature into its retail spaces. As part of this effort, Biotonomy has designed and installed a green roof and hydroponic green wall using a closed-loop system that recycles 100% of the building's wastewater. This solution saves over 730,000 liters of water annually while enhancing biodiversity, improving insulation, and reinforcing Aldi's commitment to sustainable development.



“Founder's Tips”

Initially, my mindset was that sales & marketing were bad and thought it forced people to try something they didn't need. So my team was dominated by people with technical knowledge. Later on, as I got more entrepreneurs in my network, I realised the importance of sales as a major way to sort out our finances and started hiring more people to work on marketing & sales. Sales is really a structured communication.