Bioo
POWERED BY NATURE

ABOUT BIOO

MOST DISRUPTIVE COMPANY OF THE WORLD GOOGLE INC.

MOST INNOVATIVE COMPANY OF EUROPE EUROPEAN PARLIAMENT

30U30 EUROPE FORBES LIST AWARD FORBES

SOME OF OUR MAIN CLIENTS AROUND THE GLOBE

Founded in 2015, Bioo is a biotech company focused on the biotechnological transformation of our world through unique proprietary technologies able to generate electricity from nature among others, with a team comprised of top world leaders in their areas with the vision of creating the first biotech buildings and cities.

We envision a greener future through a real symbiosis between nature and technology aligned with the next technological revolution.

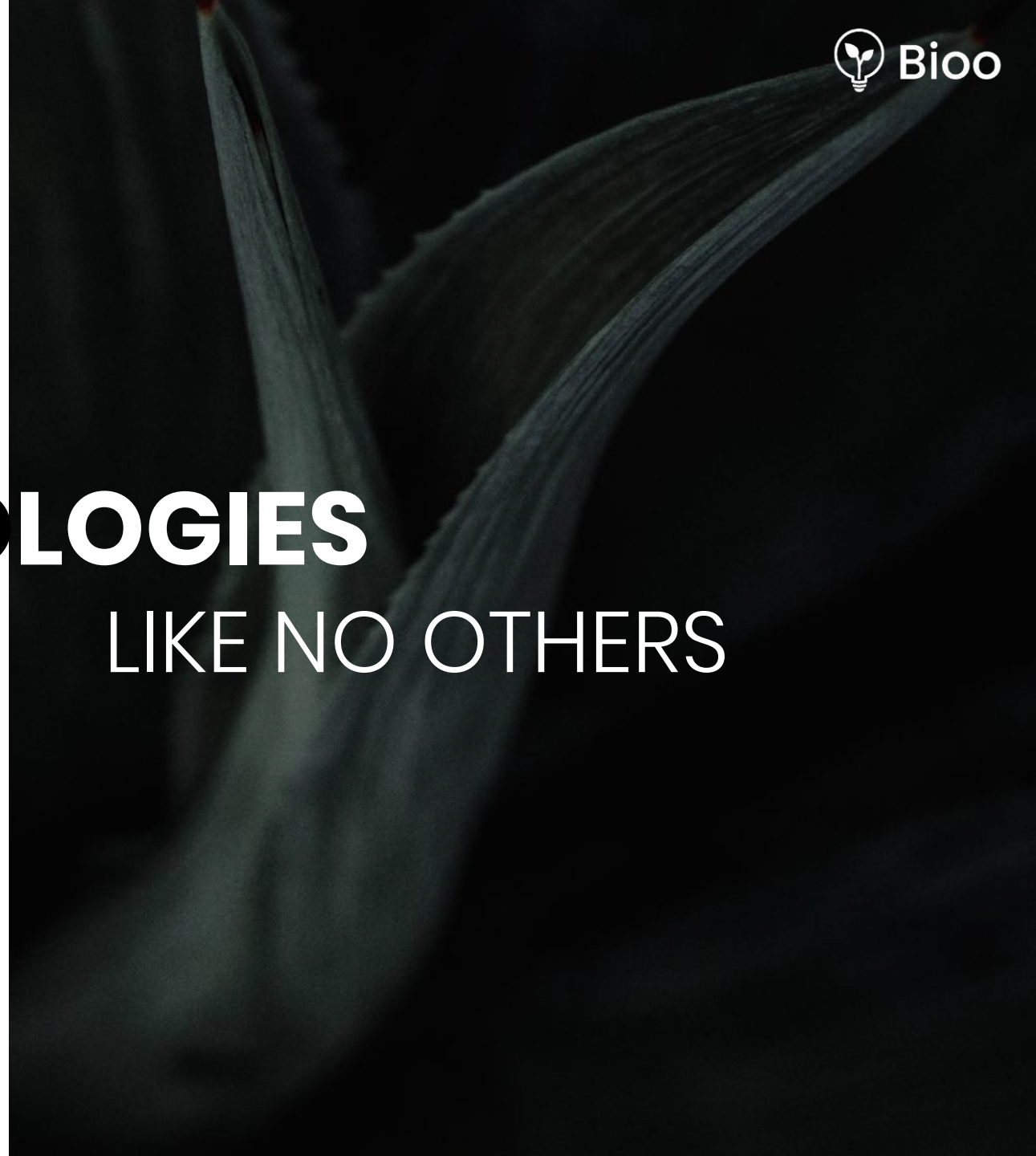
CREATING THE
FIRST BIOTECH CITIES & BUILDINGS IN THE WORLD

WHERE PARKS GENERATE ENERGY FROM THE LIVING SOIL, LIGHT UP ITS STREETS, LEAVES CREATE ART AND NATURE STORES ITS MEMORY

Bioo

UNIQUE **TECHNOLOGIES** LIKE NO OTHERS

ONE
SINGULAR
TECHNOLOGY
APPLIED PER
PRODUCT



ELECTRICITY FROM NATURE

Biological batteries collecting electrons from the breaking down of organic substances in the ground by natural microorganisms

BIOO PANEL

PLANTS AS BIOLOGICAL SWITCHES

Using plants to sense human touch and activate a range of devices such as light, sounds and screens

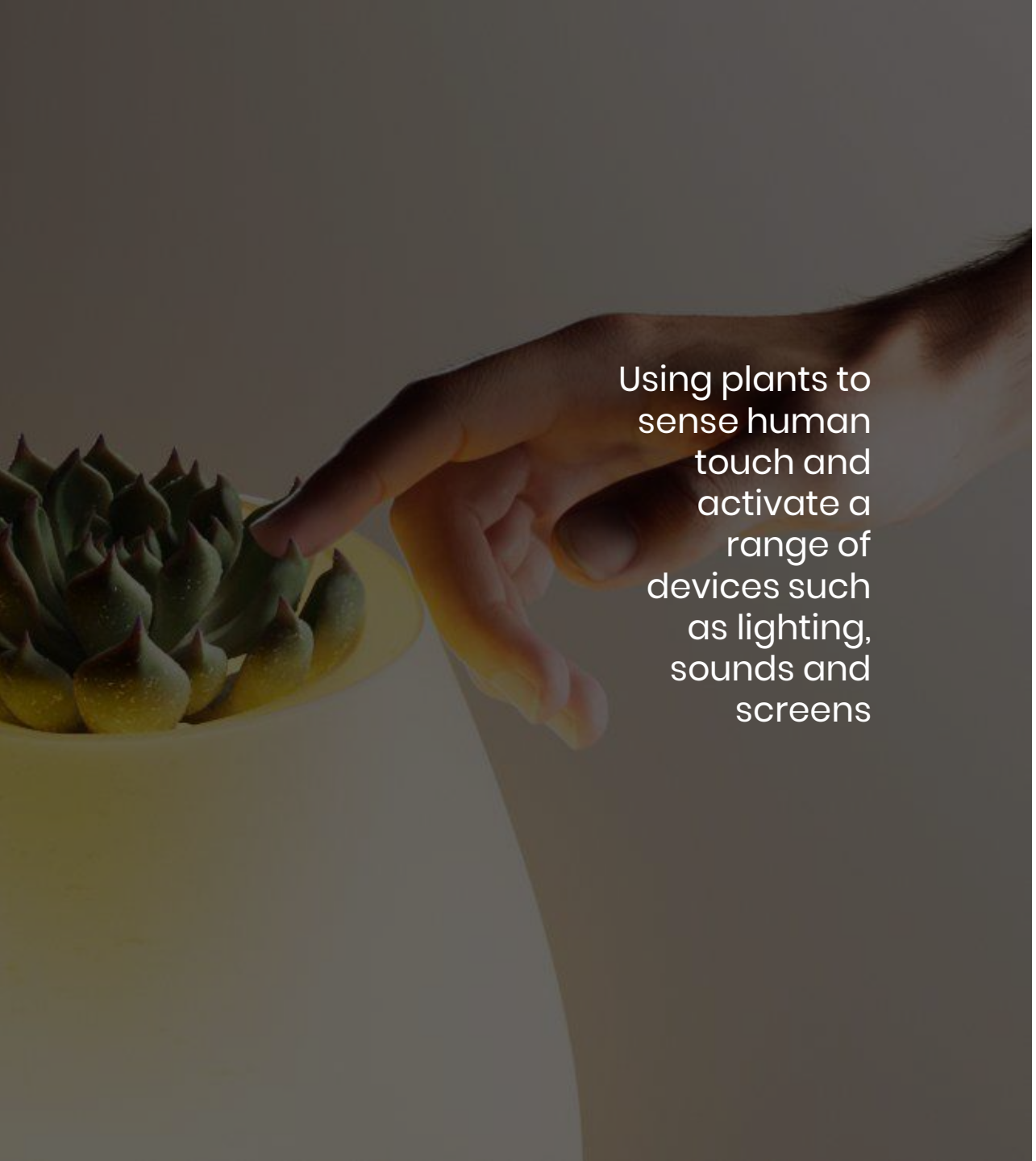
BIOO SWITCH

ELECTRICITY FROM NATURE

APPLIED PRODUCTS:

BIOO PANEL

Biological batteries collecting electrons from the breaking down of organic substances in the ground by natural microorganisms generating a 100% natural energy



Using plants to sense human touch and activate a range of devices such as lighting, sounds and screens

PLANTS AS BIOLOGICAL SWITCHES

APPLIED PRODUCTS:

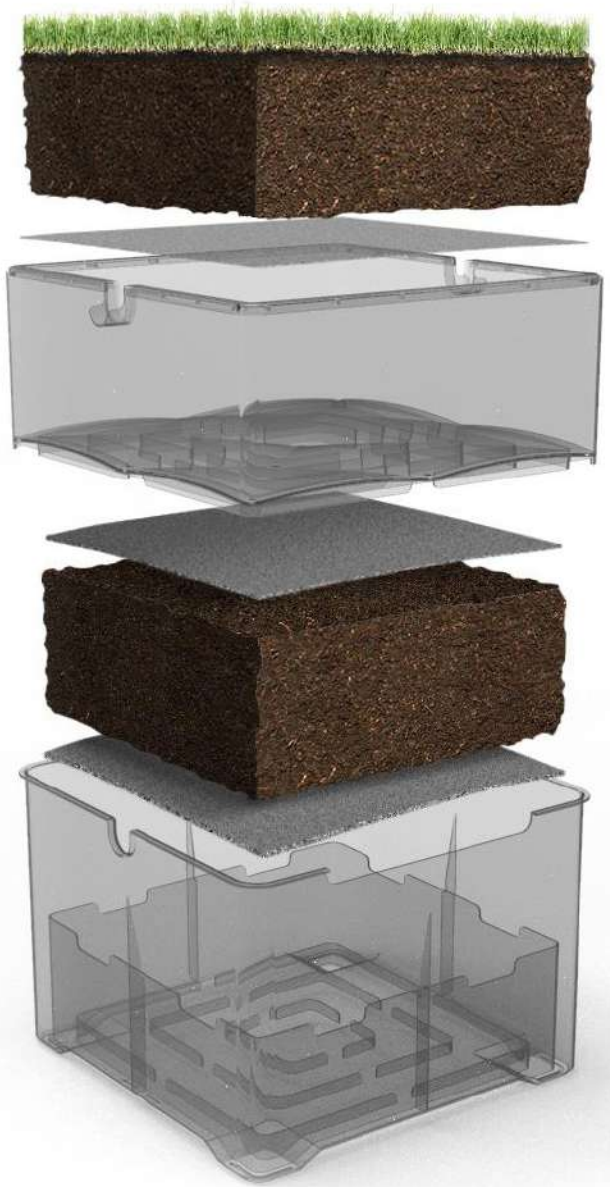
BIOO SWITCH

Bioo

BIOO PANEL

THE NEXT GREAT LEAP

ON THE MARKET
ALREADY AVAILABLE FOR COMMERCIAL PROJECTS
ALREADY IMPLEMENTED IN EUROPE



ELECTRICITY FROM NATURE

A BIOLOGICAL BATTERY IN A GROUND-PANEL

Powering light points in parks and gardens, using the organic decomposition of soil using the existing natural microorganisms of our parks and gardens to harvest energy. 100% natural and organic energy produced during day and night-time

POWERING LIGHT POINTS

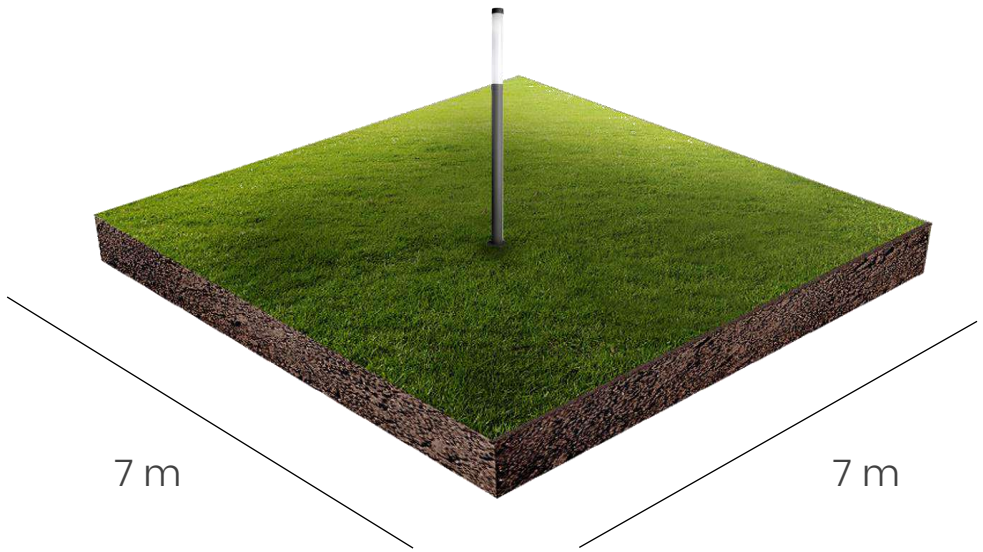
IN PARKS AND GARDENS

UNITARY

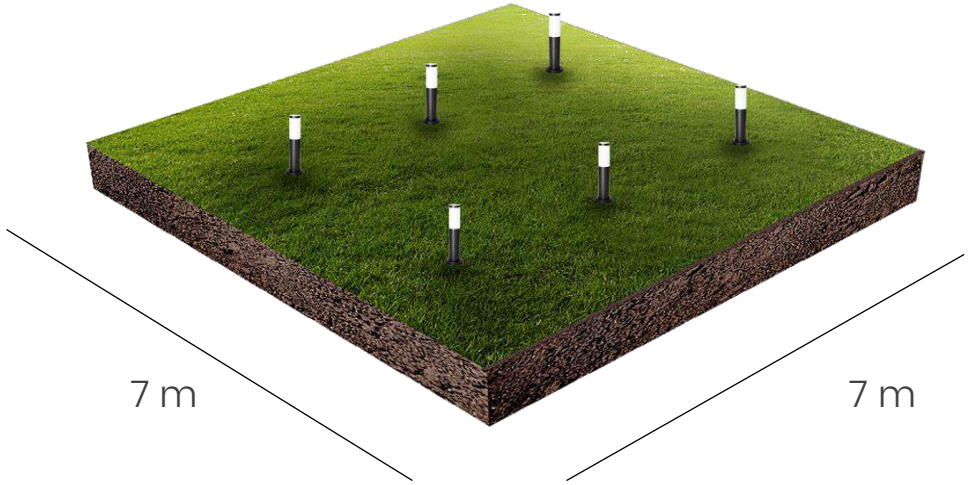
49m²

SET-UP

Approximation of number and size of light points on a field supported by Bioo Panels activated during usable dark hours of a park or by movement sensors. The system includes a back-up connection to the grid and a drip irrigation system



1 Large-medium size light point



6 Small size light points

4

Unique benefits at a competitive price

IRRIGATION

-50 %

Up to 50% of reduction in irrigation costs

CO_2

-334 g

Reduction of at least 334 grams of CO_2 per square meter

HEAT

-4 °C

Up to -4 degrees of heat

POWER

+15 Wh/day

per 7x7 meter installation

Adaptable to
multiple scenarios
and configurations

Bioo

MEASURING ITS IMPACT
IN EVERY INSTALLATION

COMPATIBLE WITH
OUTDOOR CEILINGS
USING HANGING PLANTS

& INDOOR CEILINGS
INSIDE BUILDINGS

ADAPTABLE TO URBAN FURNITURE APLICATIONS

From urban applications able to light-up at night, charge phones and many more

Bioo

BIOO SWITCH

THE BIOLOGICAL SWITCH

ON THE MARKET
AVAILABLE FOR COMMERCIAL PROJECTS WITH CUSTOM-MADE DESIGNS
ALREADY IMPLEMENTED IN EUROPE

USING LIVING PLANTS AS A

BIOLOGICAL SWITCH

BIOO ONE

A **STANDARD** VERSION FOR **OUTSTANDING** PROJECTS

ACTIVATING

LIGHTS
SOUNDS & MUSIC
SCREENS

AT THE TOUCH OF A LEAF

Bioo

COUNTING WITH

TAILOR-MADE

PROJECTS
FOR EVERY POSSIBLE
SPACE

TRANSFORMING
SPACES INTO
EXTRAORDINARY
EXPERIENCES
WITH
**CUSTOM-MADE
DESIGNS**

Bioo

BIOO LUX

SENSE NATURE

ON THE MARKET
AVAILABLE AS STANDARD MODEL
OR CUSTOM-MADE DESIGNS

A PLANT AS BIOLOGICAL SWITCH IN A UNIQUE LAMP

A lamp and a plant-pot like no other. A serene and warm light to reconnect with nature

MADE FROM TRANSLUCENT CERAMIC

Using the most exclusive and innovative materials to reconnect with nature and the essence of life in a Lite and Premium version.

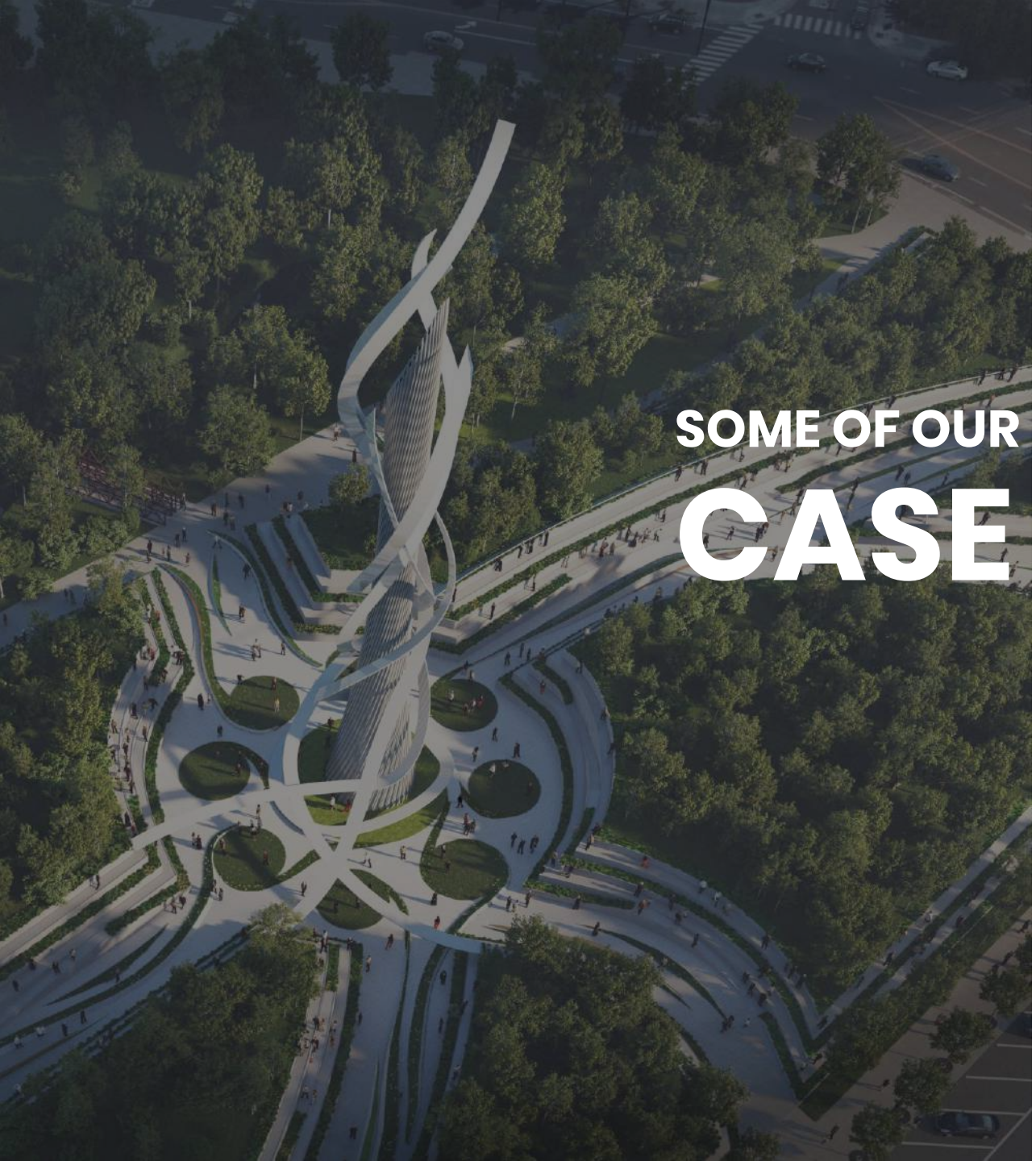
AN INTERNATIONAL AWARD WINNER

Winner of the European Product Design Award and the Delta Awards using the most exclusive and innovative materials to reconnect with nature and the essence of life

EUROPEAN PRODUCT DESIGN AWARD™

Delta Selection
ADI Awards

Bioo
Make life light up your days and nights
INTERIOR DESIGN
SMART PRODUCT DESIGN



SOME OF OUR

CASE STUDIES

BIOO INST. & PANEL

RELEASED (MAY. 2022)

LIFE AT THE EDEN PROJECT

BY VOLVO (UK)

TRANSFORMING THE EDEN PROJECT IN THE UK WITH BIOLOGICAL SWITCHES

IMPLEMENTED IN THE EDEN SESSIONS' CONCERTS & SPONSORED BY VOLVO, ACTIVATING SOUNDS, SCREENS AND LIGHTS WITH THE TOUCH OF LIVING PLANTS

RELEASED (OCT. 2019)

Bioo

TRANSFORMING THE DOCKERS' SHOPS

BY LEVIS GROUP (EUROPE)

TRANSFORMING DOCKERS' SHOPS IN EUROPE WITH BIOO'S BIOLOGICAL SWITCHES OFFERING AN EXPERIENCE TO CLIENTS ACTIVATING SOUNDS AND SCREENS TO EXPLORE THE SUSTAINABLE PROCESES AND ORIGINS OF THEIR GREEN-LINE PRODUCTS.

RELEASED (NOV. 2021)

TRANSFORMING PARKS & PUBLIC AREAS

MULTIPLE CLIENTS (EUROPE)

CHARGE YOUR PHONE WITH ELECTRICITY FROM NATURE

COLLECTING ENERGY USING A HYBRID SYSTEM, CHARGING A PERCENTAGE OF YOUR PHONE'S BATTERY WITH BIOLOGICAL REACTORS AND THE GRID

TRANSFORMING INDOOR AREAS & EXHIBITIONS

MULTIPLE CLIENTS (EUROPE, USA,MIDDLE EAST)

CREATING THE NEXT GENERATION OF BIOTECHNOLOGICAL SPACES
COMBINING NATURE AND TECHNOLOGY IN A UNIQUE WAY WITH THE USE OF BIOO PANELS TO GENERATE ENERGY AND BIOLOGICAL SWITCHES TO ACTIVATE SCREENS AND MULTIPLE ACTIVATIONS.

IN PROCESS (2025)

THE BIOENERGY WATERFRONT

BY ALGECIRAS CITY HALL (SPAIN)

GENERATING ENERGY FROM NATURE WITH BIOLOGICAL BATTERIES IN A UNIQUE LANDSCAPE SHAPED AND DESIGNED BY ON-A, A STRUCTURE TO PREVAIL AGAINST THE PASS OF TIME AND BECOME A GREEN HERITAGE OF THE COMING GENERATIONS

IN PROCESS (2026)

THE LIVING LIBRARY

BY SAN JOSE'S CITY HALL, SILICON VALLEY (USA)

STORING HUMANITY'S MEMORY IN NATURE INVOLVING THE USE OF BIOO PANELS AND BIOLOGICAL SWITCHES TO CREATE A UNIQUE EXPERIENCE WHERE LIGHT IS GENERATED FROM NATURE AND VOICE MESSAGES ARE STORED AND REPRODUCED AT THE TOUCH OF A LEAF

IN PROCESS (2027)

THE GREEN REBIRTH

BY BARCELONA CITY HALL (SPAIN)

A COMPLETE BIOTECH TRANSFORMATION OF BARCELONA'S PORT LANDSCAPE DESIGNED BY ON-A, RESHAPING CONCRETE INTO GREEN SPACES GENERATING ENERGY FROM NATURE AND INCORPORATING BIOLOGICAL SWITCHES TO CREATE ART WITH NATURE

Bioo

IN PROCESS (2025)

THE XXI CENTURY

HANGING GARDENS

BY BOSTON'S CITY HALL (USA)

MERGING NATURE AND HUMANITY TOGETHER CREATING A NEW KIND OF GARDEN WITH THE APPLICATION OF BIOO PANELS AND LIVING PLANTS AS BIOLOGICAL SWITCHES TO CREATE A UNIQUE MONUMENT THAT CREATES SOUNDS, VIBRATIONS AND LIGHTS WITH THE CONTACT OF A HUMAN TOUCH WITH NATURE.

IN PROCESS (2026)

THE URBAN OASIS

BY ALGIERS CITY HALL (ALGERIA)

MERGIN BIOELECTRICITY WITH AN ORGANIC ON-A DESIGNED STRUCTURE TO POWER LIGHT POINTS IN A LUXURIOUS COMPLEX OF FUTURISTIC APARTMENTS MEANT TO BECOME ONE OF THE FIRST BIOTECH BUILDINGS IN AFRICA

IN PROCESS (2024)

THE LIVING ENERGY PARK

BY MONACO'S PRINCIPALITY (MONACO)

GENERATING ENERGY
FROM NATURE IN THE MAIN GREEN LANDMARKS OF THE WORLD
INCLUDING LIGHT POINTS POWERED BY BIOO PANELS AND BIOO BENCHES FOR ITS PEOPLE

MAIN

Unique benefits Bioo & nature provide for people, buildings & cities

VALUE

+20 %

increase in property value when including natural areas and sustainable applications. (THE GREEN CITY 2019)

WELL-BEING

+15 %

increase in well-being of people by interacting with living plants. (INTERFACE 2018)

HEALTH

+36 %

of people medically need to spend more time in nature. (NATIONAL LIBRARY OF MEDICINE 2020)

TRAFFIC

+30 %

more people enter in areas with green & sustainable applications than in non-green spaces. (STUDY OF PHITOPHILIA 2017)

Bioo

CLIMATE IMPACT

& CSR IS IN OUR DNA

REDUCING **TRAVEL IMPACT**

RE-USABLE MATERIALS

TURNKEY PROJECTS

IRRIGATION -50% (up to)

HEAT -4 ºC (up to)

CO_2 -334.4g / m^2

ENERGY +15 Wh/Day per 7x7m

OBJECTIVE TO REDUCE GLOBAL EMISSIONS BY 2050 BY

1% OR 0.5 GIGATONS

Bioo
WHEN
INNOVATION
SHAPES THE
FUTURE
info@bioo.tech