

ENABLING ENERGY AUTONOMY



WWW.BIOESOL.COM



BioEsol

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USA MEXICO FRANCE

WHAT WE DO



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Storing clean energy to facilitate the transition towards energy autonomy



PROBLEM

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World consumes more than **1 Terajoule** of energy every day

84% of the energy comes from fossil fuels

73.2% of CO2 comes from energy sector

Climate Change

Electricity systems could generate **USD 11.644 trillion** in annual externalities in the World

Just in LATAM Energy-related problems in SMBs are **USD 17 Billion**



MARKET OPPORTUNITY

Do you know
that the **WORLD**
needs

970 GW

Storage capacity
to achieve **NET**
ZERO?

28 GW

Battery Storage
installed

2022

BIDESOL

970 GW

Battery Storage Need

2030

OPPORTUNITY

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ENERGY STORAGE MARKET SIZE

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CAGR
30%

USD 210 BILLION
GLOBAL

USD 6 BILLION
LATAM

USD 1 BILLION
MEXICO

* **Bloomberg**
NEW ENERGY FINANCE

Bloomberg New Energy Finance

SOLUTION

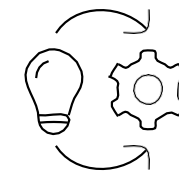
Battery powered by AI

Lithium-ion battery + AI-based energy software

BioGrid Battery



BioGrid App



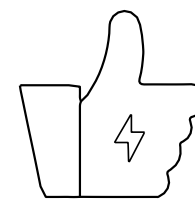
Integration

Renewable energy sources



Management capabilities

Efficiency



Auto-balance cells system

Reliable performance

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SOLUTION



Technology developed for adverse conditions:

- Grid instability
- Poor quality (voltage variation)
- Power Outages

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ENERGY INTELLIGENT SOFTWARE ●

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☰ Csol monitor



- Mis Biogrids
- Biogrids compartidas
- Documentación
- Configuración
- Cerrar Sesión

CONECTADO

Showroom

Estado de la batería

64%

151.6V
0.8 A
Cargando

Salida de corriente alterna

345 W

Generación Solar

535 W

0 W
Consumo de salida 1

227 W
Consumo de salida 2

151 W
Consumo de salida 3

- ⚙️
- 🕒
- ☰
- ✕



USE CASE



CUBILETE BUILDING
Corporate office building
Mexico



OPORTUNITY

Reduce energy cost & CO₂ emissions

- 4-story building
- 8-hour operation per day, 24-hour systems
- 9,150 kW average monthly consumption (50 tons of CO₂ per year).

SOLUTION

PV Panel + Battery Storage + Software

- PV panels and 2 Bio Grids of 8 kW (batteries)
- Solar energy is stored
- Enough capacity to operate efficiently
- App to control and measure the generation and use of stored energy.

IMPACT



Elimination of 50 tons of CO₂ per year



100,000 kwh savings per year



ROI 13 months



Continuity of operation, no power cuts

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TECHNOLOGY

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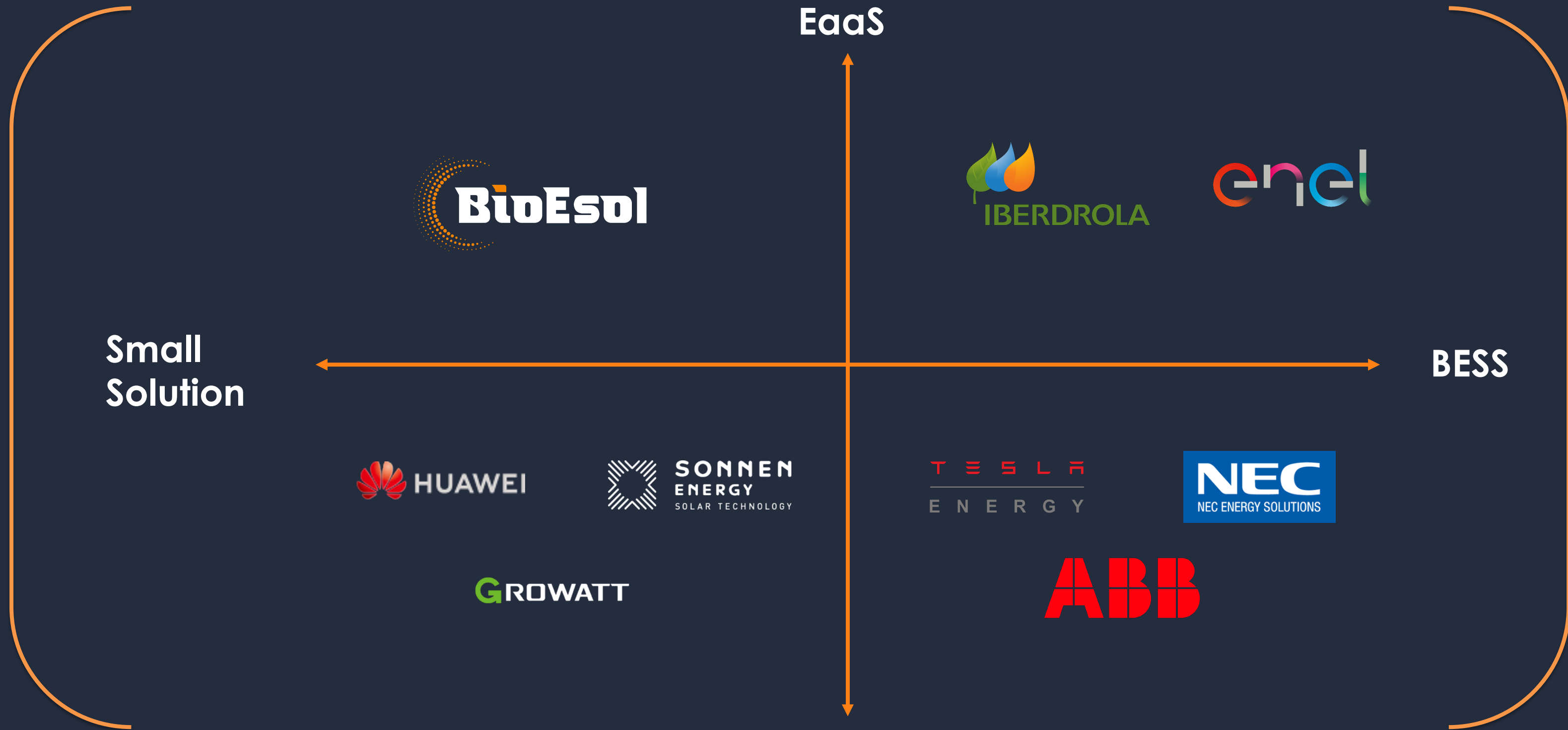
Grid connection	✓	✓	✓	✓
Extended lifetime*	✓	✗	✗	✗
No interruption*	✓	✗	✗	✗
Direct current 148v*	✓	✗	✗	✗
Auto-balance cell system	✓	✗	✗	✗
Peak shaving	✓	✓	✗	✗
LATAM presence	✓	✗	✗	✗

*Patents



COMPETITION

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REVENUE MODEL



- > **B2B** } **One-time sale**
- > **B2B** } **Energy as a Service (EaaS)**
Includes: AOM & Uptime warranty
- > **APP** } **SaaS**

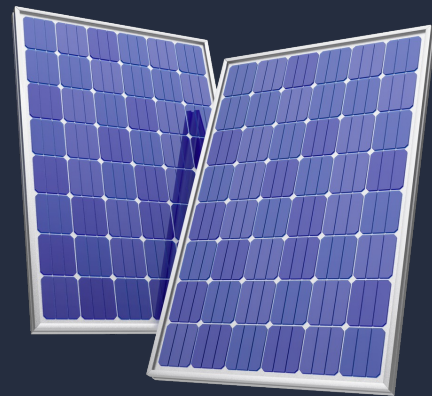
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ENERGY AS A SERVICE

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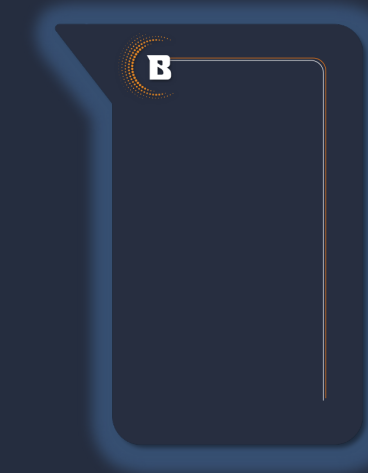
Solar panel
Generate renewable energy



Monthly subscription
Pay no upfront cost



Intelligent battery
Storage energy



Energy App
Energy use & efficiency



IMPACT

UN SUSTAINABLE OBJECTIVES

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IMPACT GOALS 2025

- **CO2 emissions reduction**
50, 468 Tons
- **Clean energy storage capacity (kWh):** 304,025 kWh



7 AFFORDABLE AND CLEAN ENERGY



11 SUSTAINABLE CITIES AND COMMUNITIES



13 CLIMATE ACTION



CLIENT IMPACT

- **Become Energy Autonomous**
- **Operate with 100% Clean Energy**
- **Secure 100% Energy for daily operations**
- **Eliminate 100% high and rising energy costs**
- **Work with good Energy Quality**



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ASAP

SIEMENS

enel



LET'S IMPACT TOGETHER



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