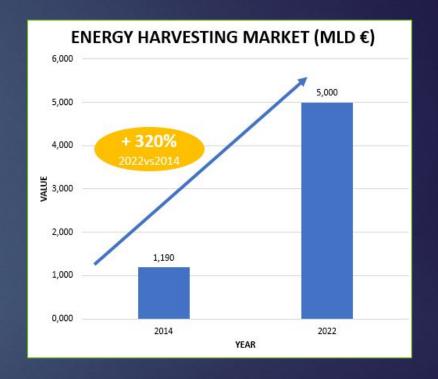


GREEN ENERGY FOR A BETTER FUTURE



Potential Market

The Internet of Things (IoT) Market 2019-2030 \$1.5 trillion 24.1 billion IoT connected devices in 2030 (7.6bm 2019) IoT revenue in 2030 (\$465bm 2019) North America China S652bn 24.1bn Europe 1.9 TRANSFORMA 7.6bn 17.4 fransformainsights.com @transformatweet 2030 Short range 9 Private networks 8 Public networks



Ou Mission and Vision

Mission

☐ Contribute to the innovation system through technologies

Vision

- ☐ International leader in matching innovative technologies and nature in the fields of IoT, smart agriculture and green energy.
- ☐ Strategic partner for professional investors, corporate VCs, Open Innovation managers, proposal coordinators, Policy Makers e.g. on the subject of Carbon Offset



Our Technology

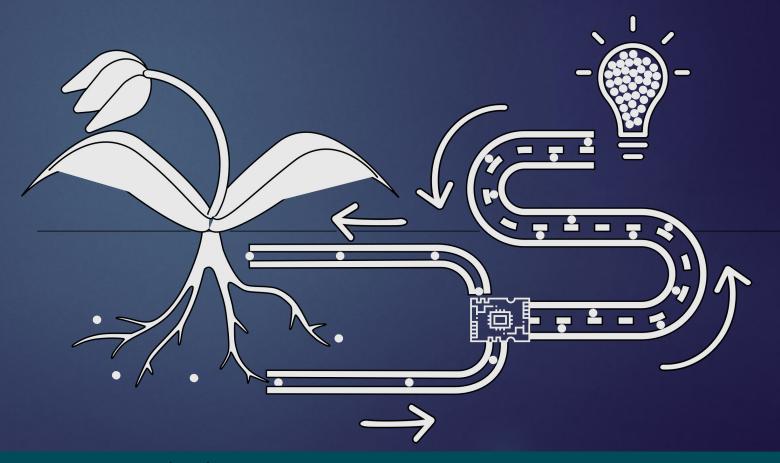
VOLTAPLANT it's owner of an internationally patented technology based on microbial fuel cells that produces clean energy from plants.

Plant

Voltaplant System

=

Clean energy





Our Green Power Supply

VOLTAPLANT guarantees an inexhaustible source of renewable and sustainable electricity, able to power sensors, devices and low consumption LEDs, continuously and without the use of batteries or photovoltaic panels.

- 100% natural and renewable energy
- Not dependent by wind and sunlight
- Easy disposal
- No recurring costs





Our Patent And Our Know How

Our Patent:

- ☐ ITA Application number: 102019000024643 "Un Dispositivo e un metodo per la generazione di emergia elettrica dalla degradazione del suolo"
- ☐ EU Application number: EP20215777.2 EU "A device and a method for generating elettrical energy from soil degradation"
- ☐ International Extension application number:
 PCT/NL2008/050219 "Device and method for converting light energy into elettrical energy" [International Publication number: WO 2008/127109 (23.10.2008 Gazette 2008/43)]Our Know How

Our Know How

- ☐ 54 chapters of books
- ☐ 154 scientific articles
- 330 interventions at conferences and seminars
- ☐ 159 theses followed
- ☐ 18 patents filed



Our Pipeline Of Solutions And Fields Of Application

Products and Services

- Temperature and humidity sensor power supply
- Sensors, devices and low consumption LEDs power supply
- Internet of Things and Smart Cities: Sensor and device power supply
- High Level Consultancy

Field Of Application

- Internet of Plants and Smart Agricolture: sensor and device powe supply
- 🛮 Gardening and outdoor lighting
- Interior furnishings and outfittings



Our Solutions – Standard System (1/2)





Temperature and humidity sensor power supply





Our Solutions – Standard System (2/2)



Sensors, devices and low consumption LEDs power supply





The skills of the *VOLTAPLANT* research team, which are rooted in years of studies and publications, allow us to provide high-level consultancy in the field of environmental botany and discrete and integrated electronics.

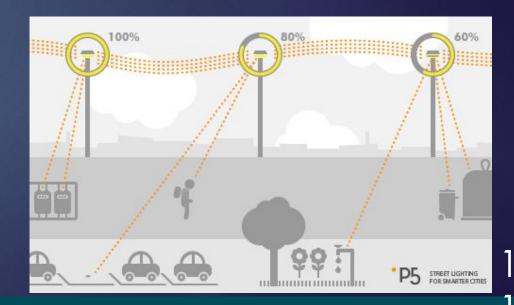
- Development of new projects based on Customer Specific Requirements
- Activation of University researches and Thesis on specific topics requested by the client
- Development of new tailor made "green" Products



Our Field of Application (1/3)



Internet of Things and Smart Cities: Sensor and device power supply

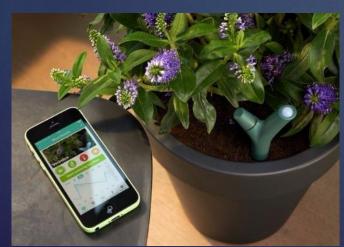




Our Field of Application (2/3)



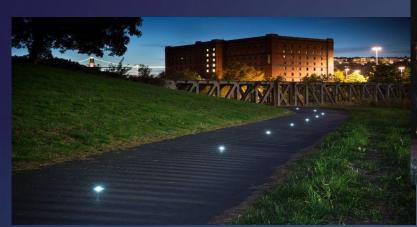
Internet of Plants and Smart Agricolture:
Sensor and device power supply







Our Field of Application (3/3)





Gardeningand outdoor lighting

Interior
furnishings and
outfittings

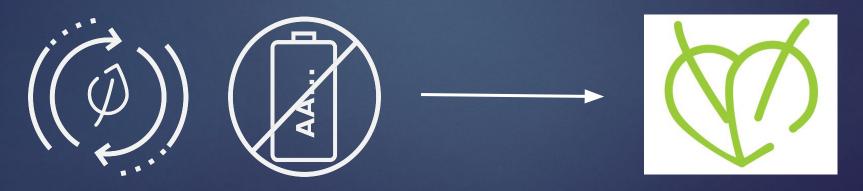




Our Tailor Made System

The VOLTAPLANT System is easily customizable according to the specific needs of the customer in order to:

- □ Power different types of utilities and applications
- \square To be used in any sector





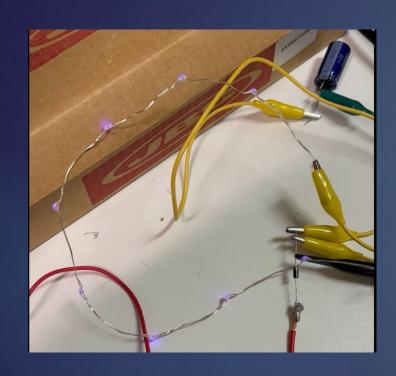
Our Research Results (up to FEB 2022)

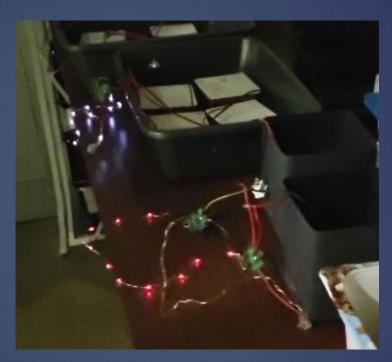
During last year (up to FEB 2022) of intensive applied research:

- A new prototype of PMFC module has been developed
- The power extracted from a single cell has been raised by 300%
- A sensor for temperature and RH measure could be supplied perpetually
- An array of low power led stripe could be supplied with 1 single cell (blinking)
- An array of low power led stripe could be supplied with 3 cells (always ON!!)
- Optimal interconnection of several PMFCs is currently under study

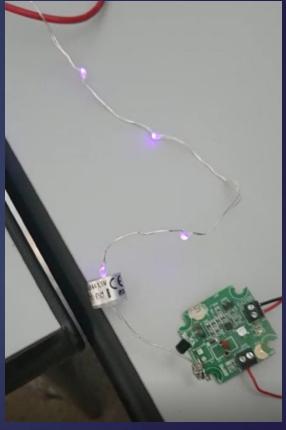


Our Research Results (up to FEB 2022)



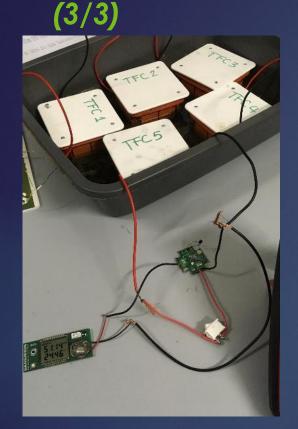














A single PMFC can supply a temperature and humidity sensor perpetualy

Subsequent steps have been generated and consolidated until October 2022 and are provided on a private treaty basis due to the important new features that need to be protected



Our Benefits For Companies Our sustainability Goals

Our Professionals in Costing, Finance & Tributes have the opportunity to drive companies investing in VOLTAPLANT to:

- Incentives and tax advantages
- Accounting Incentives
- ☐ B-Corp Certification

Our Goals

- 7 Affordable and Clean Energy
- 9 Industry, Innovation and Infrastructure
- 11 Sustainable cities and communities
- ☐ 13 Climate Action

SUSTAINABLE GALS DEVELOPMENT GALS







Our TEAM



VOLTAPLANT is a spin-off of the University of Pavia composed of a Team of Professors and

Researchers supported by a Specialized Management:

- ☐ Department of Earth and Environmental Sciences
- ☐ Department of Industrial and Information Engineering
- ☐ Professionals in Company Law, Tax & Finance, Sales & Marketing













If you wish to receive a Paper with the data of our Research,

please send an email to

info@voltaplant.com



THANK YOU FOR YOUR ATTENTION