



25 years devoted to the environmental sector has intervened in +900 projects in 14 different countries.

Dr. Oriol Vilaseca i Vidal

CEO and founder of VILASECA CONSULTORS SLP

Headquarters: Sant Cugat del Vallès (Barcelona)

Delegations in Madrid (Spain), Casablanca (Morocco), Tunis (Tunisia) and Riyahd (KSA)

- PhD in Materials Science and Technology "Cum Laude" - UAB-ICMAB-CSIC.
- Chemical Engineer and Industrial Technical Engineer - Rovira i Virgili University.
- Master in Renewable Energies - Universidad Europea de Madrid.
- Master in Materials Science and Technology - UAB/CSIC
- Master in Project Management - Project Management Institute.
- Master in Occupational Risk Prevention - CEPROM Terrassa.
- Professor of the Circular Economy Postgraduate Course at the EIC.
- Coordinator of the Hydrogen Technologies and Applications Course at the EIC.
- Speaker at different national and international conferences and conferences.
- Associate professor at the Universitat Rovira i Virgili in the Department of Chemical Engineering



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Technical Consultant in Environment. Catalonia's Government 2002-2010

Technical Director. Group IRANZO (Construction) 2003-2013

CEO Co-founder INGENIUM (Engineering) 2006-2011

CEO Co-founder RECICLATS DE CASTELLBISBAL (Recycling) 2004-2013

General Manager & Associate. KECONSTRUIM SA (Construction) 2011-2013

CEO Founder VILASECA CONSULTORS SLP 2008-...

CEO Co-founder SOCIETE MAROCAINE DE PROJETS 2011-...

External Consultant. ALYA TECHNOLOGY INNOVATION SL 2016-...

Ambassador: VIVER CLEANTECH 2023-...



V
V I L A S E C A
C O N S U L T O R S

Vilaseca Consultors

We are a comprehensive engineering company located in Sant Cugat del Vallès specialized in sustainability, waste and alternative fuels, including hydrogen and its derivatives.

Currently, we have more than 40 references in feasibility and implementation studies for the production and use of hydrogen and its derivatives for both the public and private sectors.

www.vilasecaconsultors.com

Vision

To become a benchmark company in areas of the future, such as sustainability, and the modelling and design of processes and facilities to obtain new sources of green energy.

Mission

Participate in the construction of positive and persistent changes Worldwide. Providing technical and professional solutions to our clients.

Values

More than words, these are our principles: be passionate, value determination, work as a team, make a difference, and enjoy our work.

+20

YEARS OF EXPERIENCE

+200

CLIENTS

35

OUR TEAM

+900

EXECUTED PROJECTS

14

COUNTRIES

Who are we?

A multidisciplinary team made up of doctors, engineers, architects and urban planners, complemented by a team of highly qualified consultants and managers.

Experienced people, as demonstrated by the hundreds of projects we have executed during the history of our company. With the capacity for initiative and specially trained to work as a team, given the complexity and the need for plural intervention of various professionals to develop all types of projects, no matter how complex they may be.

Our staff actively participates in teaching specialized courses in circular economy, waste treatment, hydrogen, water treatment, energy transition and waste, in addition to other dissemination and promotion events internationally and in various university centers, professional associations and schools.

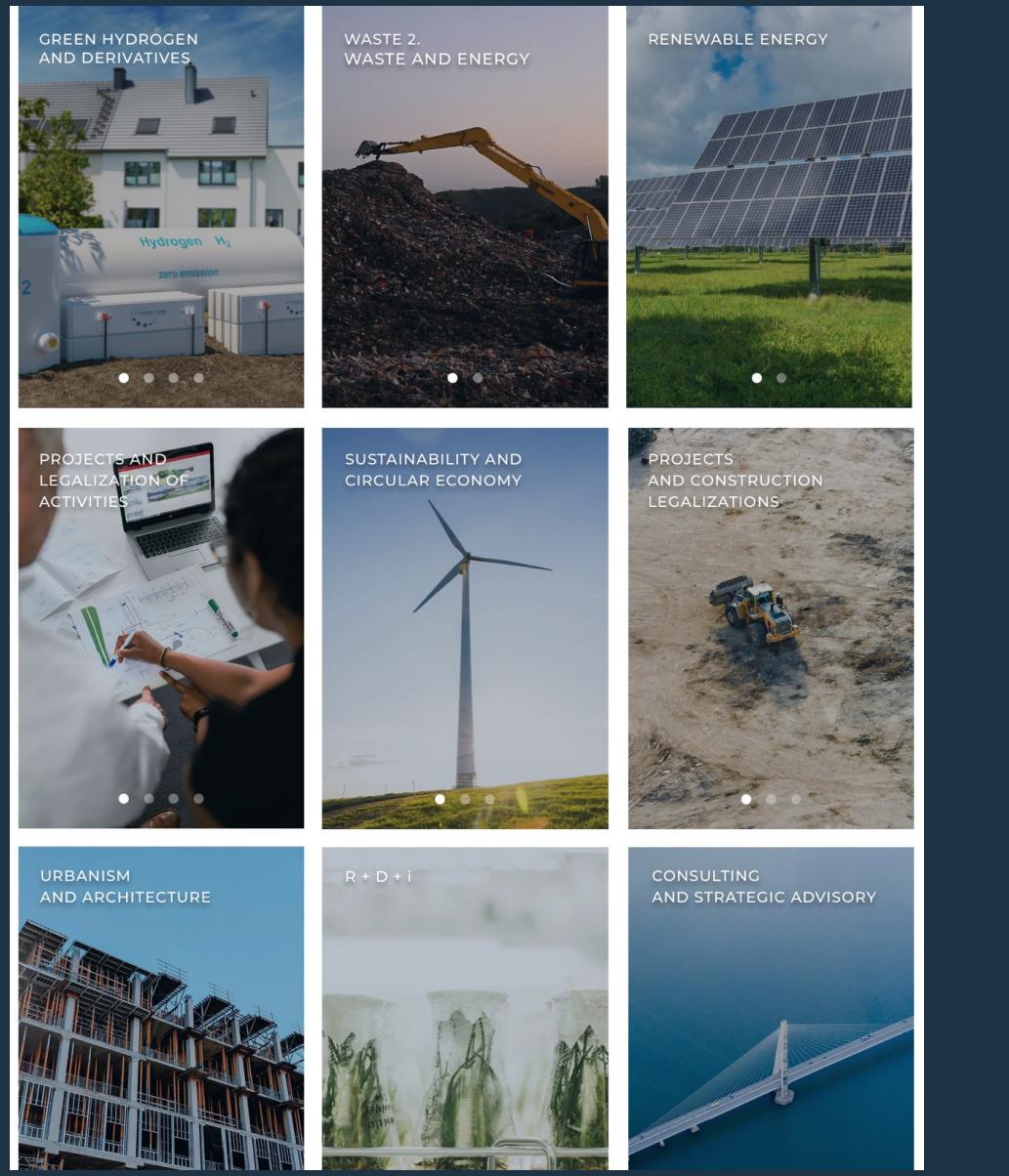
Our services

A careful service from the beginning. We are specially prepared to go beyond what our clients ask for and propose solutions, not only designed for current needs, but also for future ones, given the times in which we live, transition and constant technological, regulatory and financial changes.

We define ourselves as "aligners" of the different elements to take into account in a project and that are necessary for the final success: planning and drafting of the project, technologies, regulations, administrative steps, financial needs, among others. In short, we ensure that our clients do not have to worry about any issue related to the project because we respond to all their needs.

We offer flexible and circular services, so that our clients decide between the diversity of options that we present to them, so that they can choose, take charge of the management and financing of the entire project or only those parts that interest them.

A 24/365 service from the moment of the order, but also from the post after the start-up and legalization of the project.

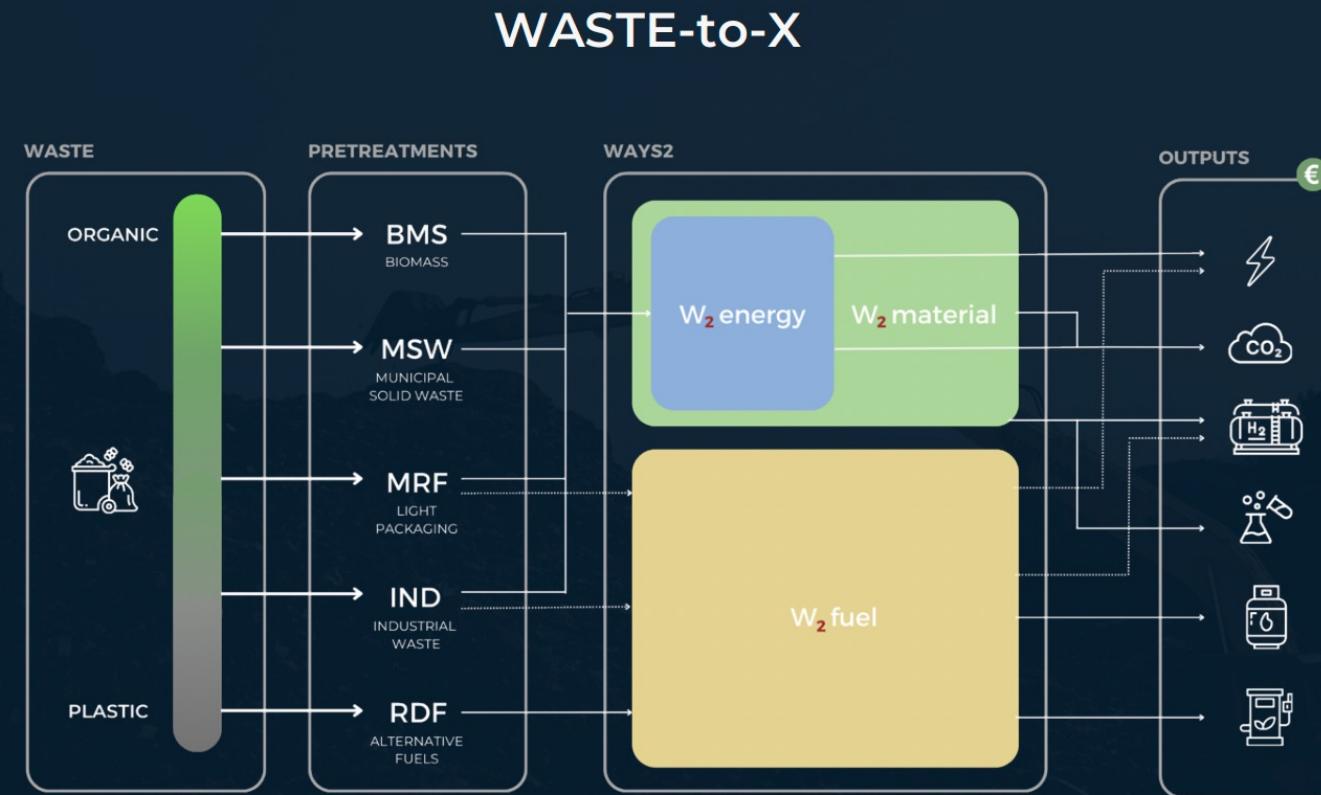




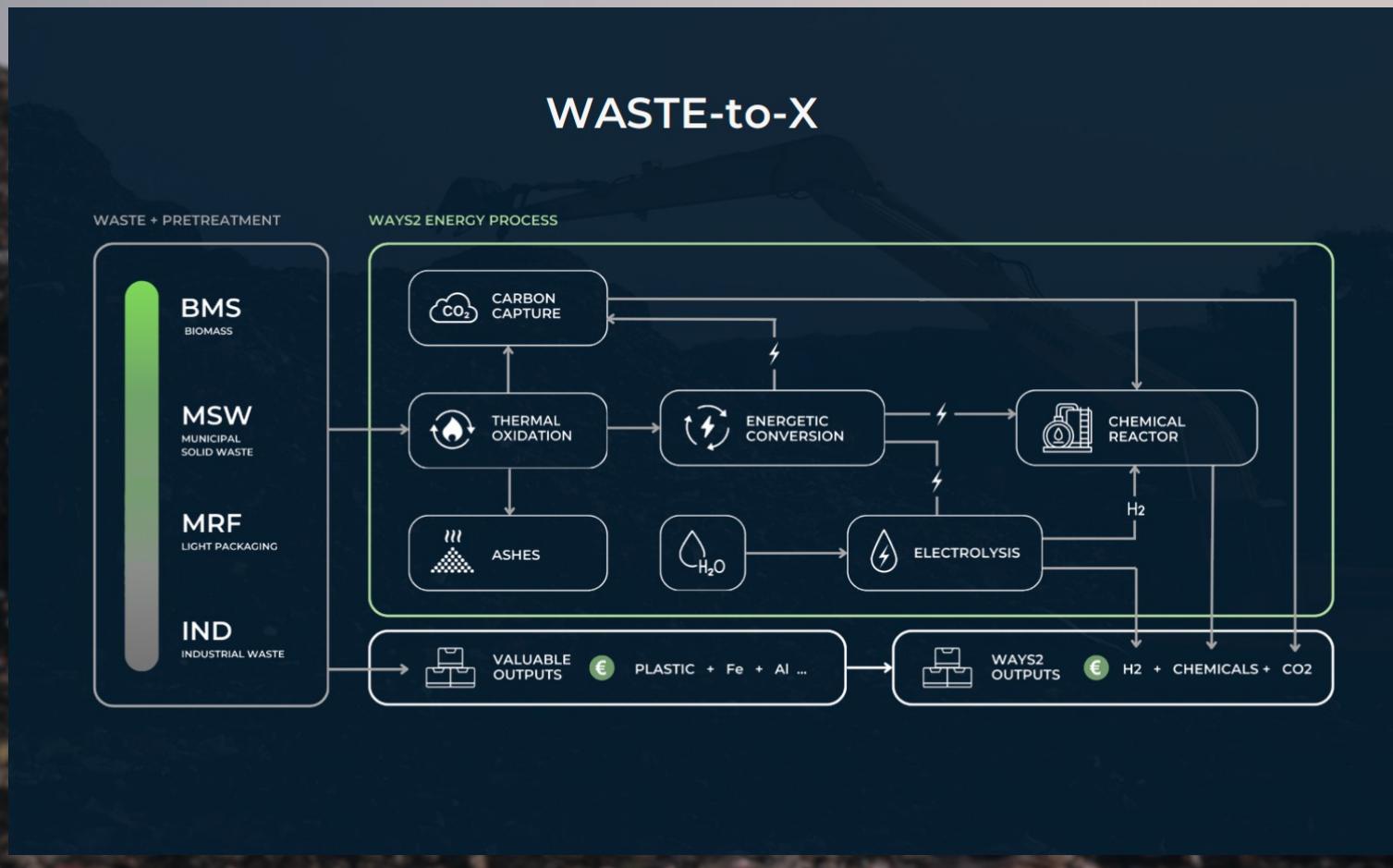
WASTE 2. Waste and Energy

We are specialists in circular economy and use of special waste for the purpose of obtaining renewable energy from organic waste. For this reason, our team is considered a pioneer in Catalonia in the development of material recovery projects.

WASTE-to-X



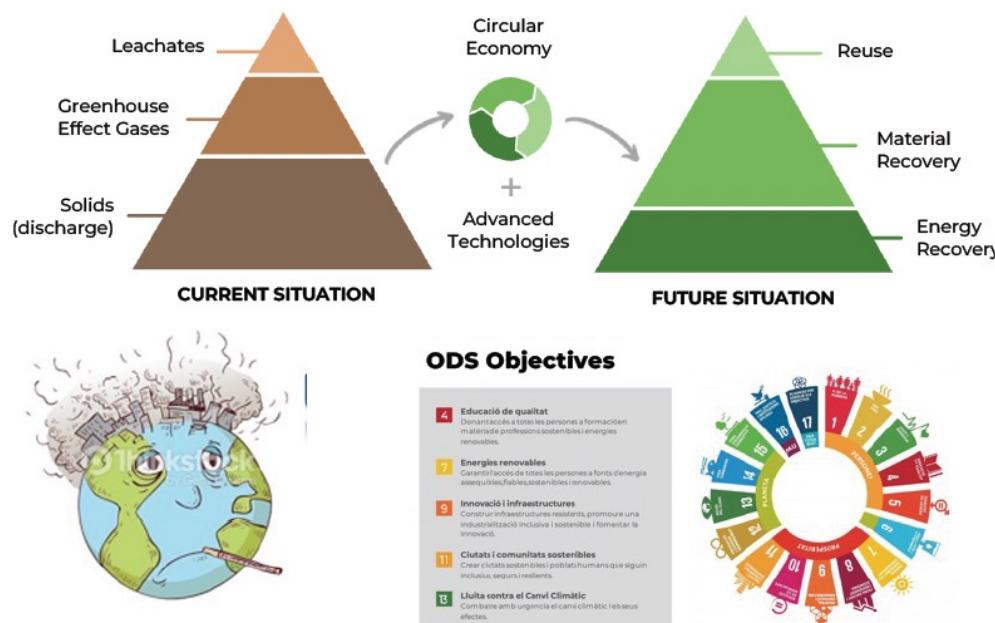
02 WASTE-to-X



Anoia Circular Economy Park

Roadmap for the achievement of the established objectives.

Total expected investment: **€600 M** with the creation of more than **250** resilient jobs. Reduction of dumping to 10% over the **850,000 tons/year** currently deposited. Creation of a pioneering Circular Economy Park in Southern Europe with zero waste and zero emissions.



► Estimate of net surfaces of the proposed facilities

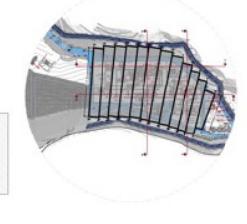
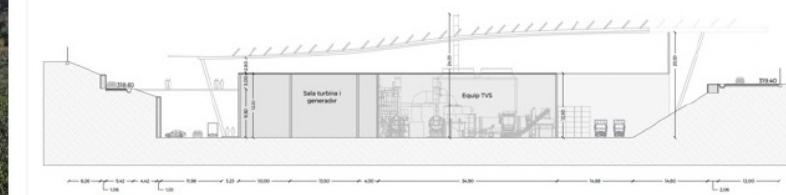
TIPUS DE PLANTA	Superficie neta (m ²)	%
Pretractament i condicionament de residus	12.600	2,8%
Planta transferència	8.000	1,8%
Planta bioassecatge	8.000	1,8%
Planta preparació CDR	14.000	3,1%
Planta valorització material 1	62.500	13,7%
Planta valorització material 2	27.500	6,0%
Planta valorització material 3	10.000	2,2%
Planta carbonatació	24.000	5,3%
Planta digestió anaeròbia compacta	15.000	3,3%
Planta Fracció Vegetal	30.000	6,6%
Planta de pel·letització i productes energètics biogènics	98.000	21,4%
Dipòsit controlat temporal	145.000	31,7%
Edificis administratius i altres	2.500	0,5%
Total superficie neta estimada	457.100	100,0%

(*) No s'han considerat: vials i infraestructures, zones verdes ni cessions urbanístiques.

Beuda (La Garrotxa)

From the "pantry" to methanol

35,000 tons of RSU valued for the production of steam and electrical energy, to produce: **168 tons of H₂** with a minimum of **10,000 tons of CO₂eq** captured for the synthesis of **780 tons of methanol**, obtained from the waste buried in the Beuda landfill (Garrotxa). "Grave-to-Cradle" or "grave-to-cradle"

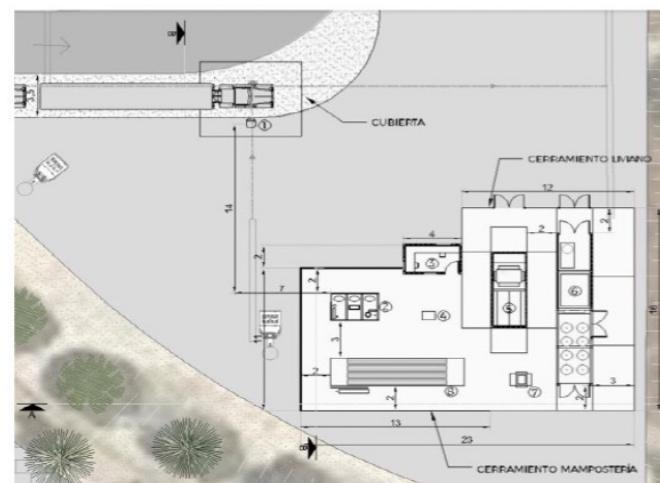




Sirusa (Tarragona)

From waste to green hydrogen

Part of the RSU currently valued at the facility for its conversion to electrical energy will make possible the production of **168 tons of H₂**, avoiding the emission of **2,554 tons of CO₂ - eq** to travel up to **1,817 Million km** of emissions zero from waste.



Can Barba

Expansion of Can Barba Biomethanisation Plant

The facility has expanded its capacity from **21,000 to 60,000 tons/year** of organic waste (FORM) to respond to the growing demand generated by improved selective collection in Vallès Occidental. The project includes a new **4,390 m³** anaerobic digester Optimization of the existing **1,700 m³** reactor Installation of a **1,150 Nm³** gas holder. Valorization of biogas via **0.626 MWe** cogeneration engines. This upgrade enhances renewable energy production and promotes a circular economy.



Project Summary:

New pre-treatment lines with advanced mechanical separation technologies.

Thermal dehydration and hygienization systems improve digestate quality.

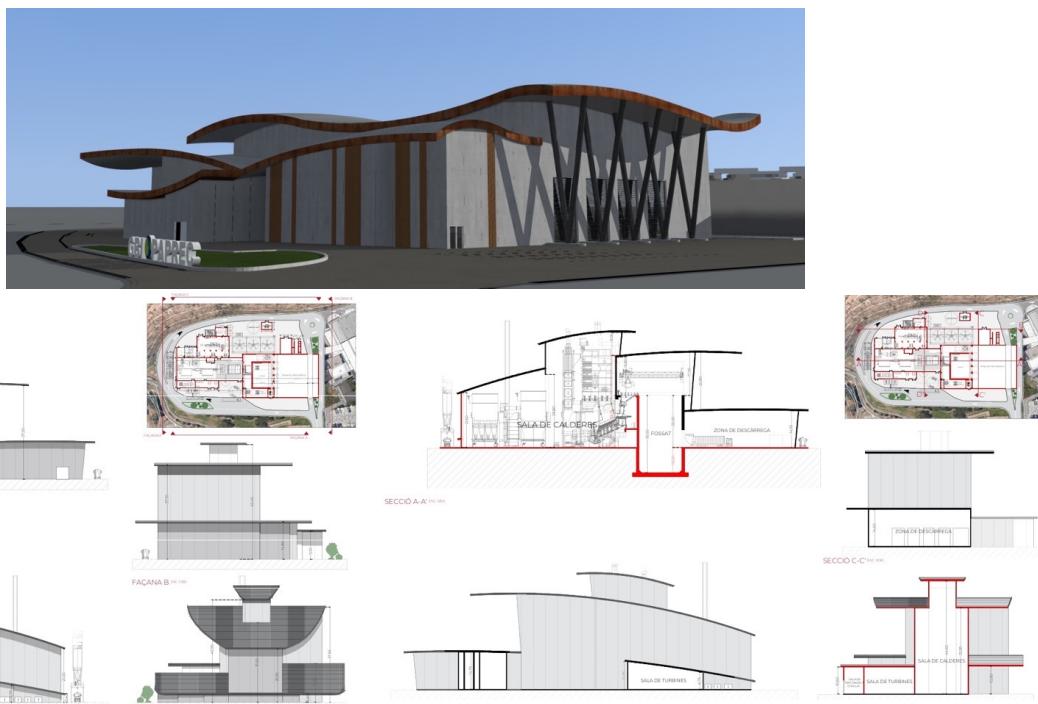
New infrastructure for offices, labs, and educational visits.



Waste Recovery Plant

Construction of a Waste Recovery Plant

The project involves the construction of a new waste recovery facility on the site of the existing Municipal Solid Waste Treatment Center. It includes the demolition of current buildings and the development of new infrastructure across a **98,150 m² plot**.



Key Actions:

- Demolition and earthworks.
Construction of a new processing hall and auxiliary facilities.
- Installation of aerocondensers, truck loading areas, and photovoltaic panels.
- Urbanization: roads, signage, lighting, green areas, and access control.
- Modern utilities: fire protection, wastewater, and weighbridge systems.
- The plant will implement advanced technology to improve environmental performance and promote the circular economy.

Other ways in progress

Production of meta synthetic gas from agro-livestock and other waste

Annual data: **45,000 tons** of waste valorized to produce **10 t/hour** of steam and sufficient electrical energy to produce green H₂, with a minimum of **30,000 tons of CO₂-eq** captured and **5,000 Nm³/h of GNS** produced from of waste, a pioneering project in Catalonia.



Optimal alternative in many cases :

- It meets the objectives of decarbonisation, obtaining alternative fuels and "total recovery" of waste.
- The integration of two processes of material recovery of waste allows the compensation of emissions*. By integrating advanced and pioneering techniques
- There are more competitive and circular advanced technologies both in the medium and long term.
- *in the absence of a particular study for each case

i Civil and engineering projects

The execution of works is another of our specialties as evidenced by the long list that appears in the section of this website.

Drafting basic and executive projects for licensing and communications works

Drafting of basic and executive projects for minor and major works

Iron and/or concrete structure projects

Calculation of comprehensive installations

Custom industrial warehouse design

Preparation of budgets and tenders

Demolition and deconstruction projects

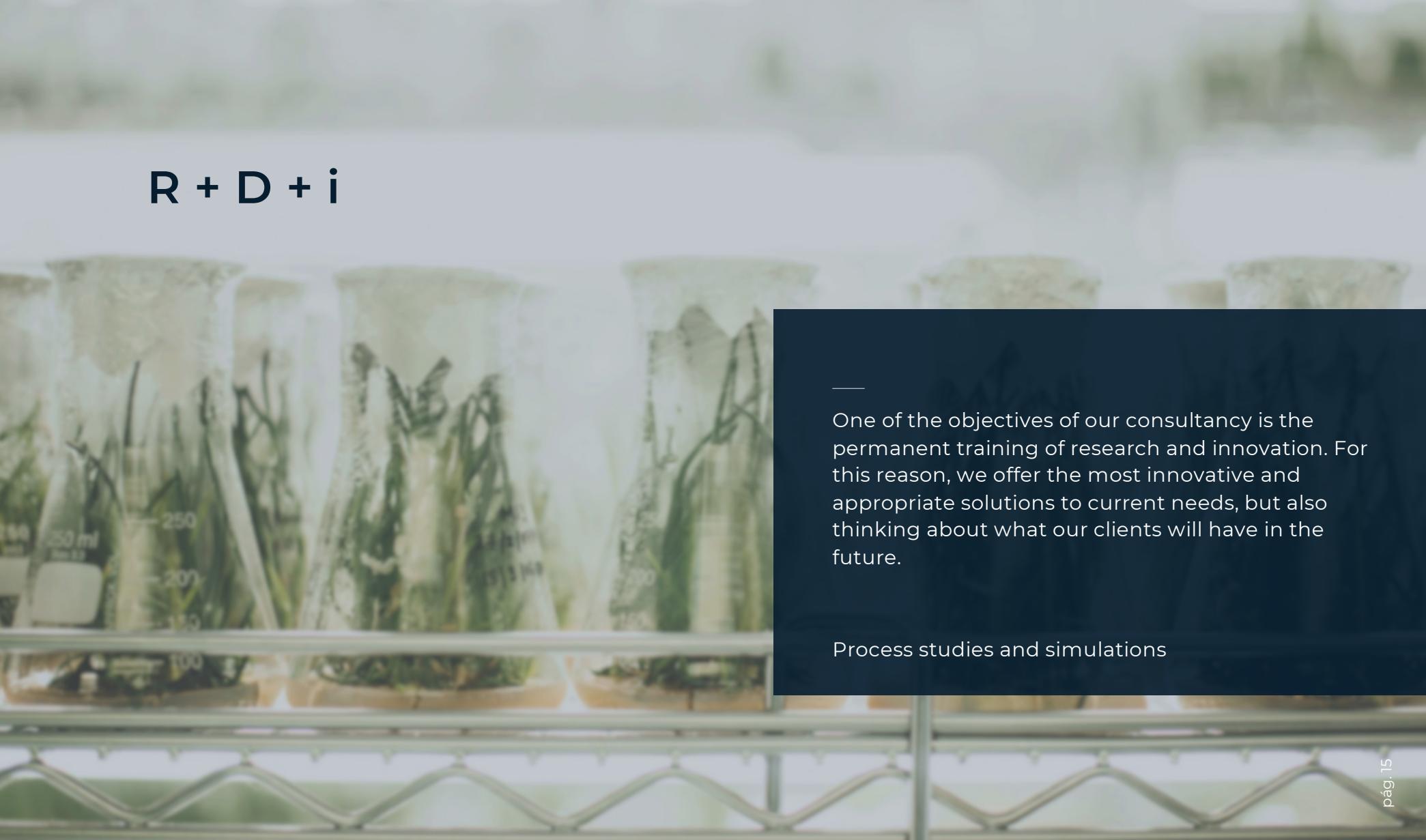
We know urban planning, since we have participated in numerous urban planning projects, through the strategic development of the necessary documentation and procedures.

- Drafting of basic and executive projects for urbanization and building works
- Projects of reform and rehabilitation of existing buildings
- Design custom industrial buildings
- Design and construction of offices
- Calculation of structures and facilities
- Calculation of facilities
- Reports, certificates, certificates, expert reports and valuations
- Executive management and health and safety coordination

07 Urbanism and architecture



R + D + i



One of the objectives of our consultancy is the permanent training of research and innovation. For this reason, we offer the most innovative and appropriate solutions to current needs, but also thinking about what our clients will have in the future.

Process studies and simulations

As international consultants of recognized prestige, we advise how to manage the projects entrusted to us, always seeking maximum efficiency and we offer flexibility so that our clients can choose between the various possibilities that exist both from the point of view of strict management and financing.

Feasibility and pre-feasibility studies

Comprehensive and technical advice

Expert reports and evaluations

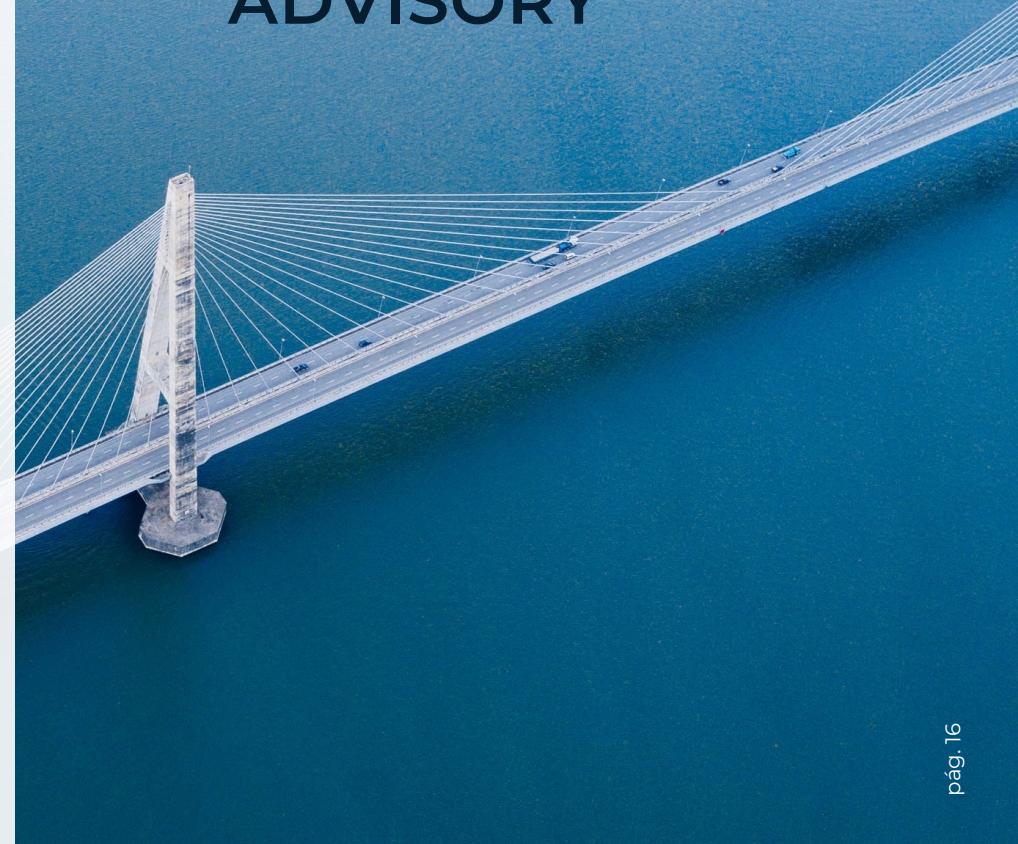
Accompaniment and advice prior to the implementation of activities

Due diligence

Aid for private financing of projects

Preparation of projects for subsidies and public aid

CONSULTING AND STRATEGIC ADVISORY





Collaborations and partnerships

@Vilaseca Consultors we collaborate with several universities with an internship agreement, so that their students can start in the world of work and participate in projects of mutual interest. In addition, we share a close relationship with other companies and foundations.



Universidad Rovira y Virgili (URV)
Convenio de prácticas universitarias



Universidad Politécnica de Cataluña (UPC)
Convenio de prácticas universitarias



Universidad De Barcelona (UAB)
Convenio de prácticas universitarias



Science World Congress (SWC)
Acuerdo de colaboración e investigación



Fundación Empresa y Clima
Acuerdo de colaboración



Asociación de Empresas de Movilidad, Entorno Sostenible y Smart
Acuerdo de colaboración



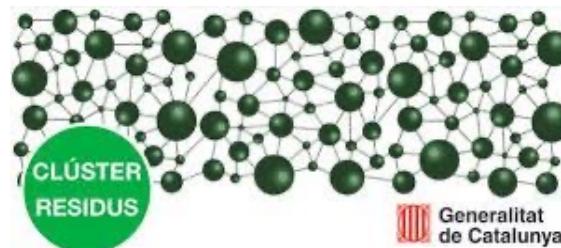
Asociación Empresarial y Unión Patronal Metalúrgica...
Acuerdo de colaboración

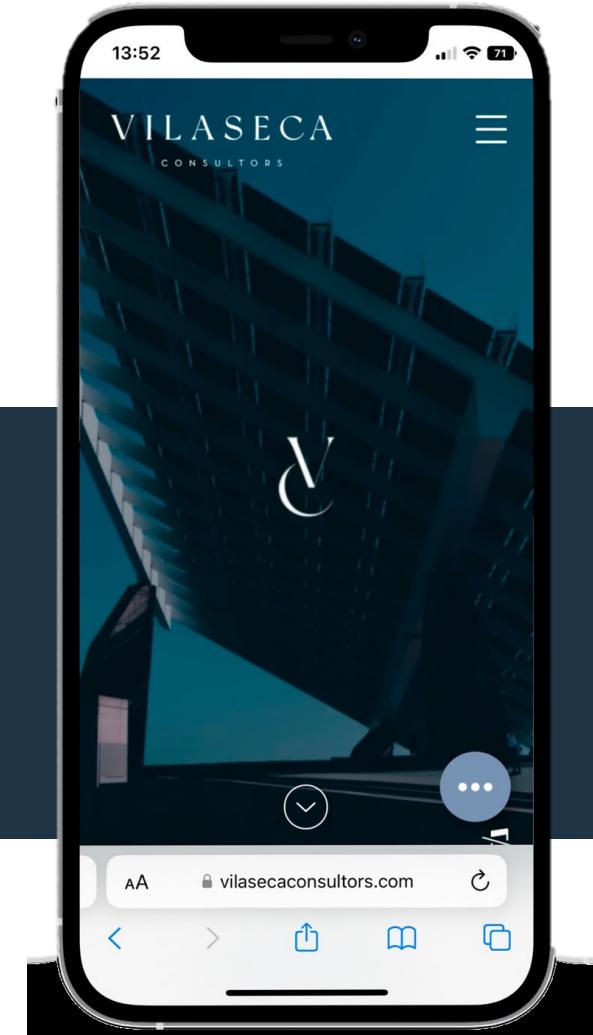


Fundación Instituto de Investigación de la Energía ...
Acuerdo de colaboración y cooperación



Acreditación de ACCIÓ
Sello de acreditación de personas Asesoras





Contact with us for more info:

If you want to explore green circular business opportunities, we are your partner to transform innovative ideas into sustainable projects.

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HR Location

Calle Victor Hugo 4, 2a Planta, 08174 Sant Cugat del Vallès, Barcelona

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