

CHYSYTECH FILLING THE GAP

COMPANY PROFILE

HYSYTECH s.r.l. • Reg. Office: Strada del Drosso, 33/18 - 10135 Turin, ITALY • Tel: +39 011 3970273 • Contributed Capital € 65.000,00 fully paid-up • Tax/VAT No. 08682860013 - Reg. Imp. TO R.E.A.993108



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HYSYTECH COMPANY PROFILE OUR COMPANY



HYSYTECH is an engineering company founded in 2003, specialized in the design, development and industrial implementation of **new turn-key process technologies and equipment**.

Our skills start from the know-how in chemical and process engineering, up to commissioning, monitoring and maintenance.

We operate mainly in the field of generation, treatment and recovery of industrial gases, organic liquids and energy, according to the best engineering practices, also through the implementation of our technologies.

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HYSYTECH COMPANY PROFILE OUR CLAIM

FILLING THE GAP

When you're exploring a potential new project, it's easy to underestimate the size of the gap between where you are now and where you want to be. We help you to fill this gap.

This feature makes HYSYTECH a flexible and allaround resource, capable to provide high quality and competitive services.



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HYSYTECH COMPANY PROFILE TURNOVER BREAKDOWN

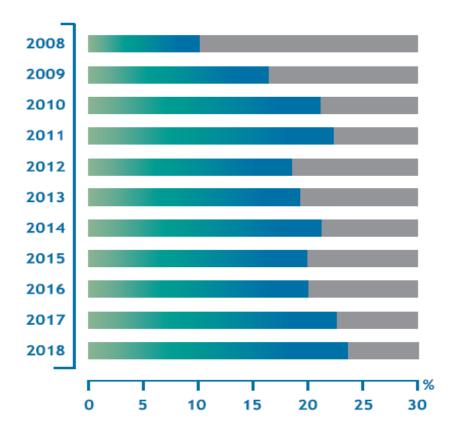
More than half of **Hysytech's** revenue comes from the **execution of industrial plants**, demonstrating our direct experience on this branch.







HYSYTECH COMPANY PROFILE PROFIT \ TURNOVER



We are a private company that **re-invests in its own differentiation and specialization**. [Results before internal investments in research and development.]



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HYSYTECH COMPANY PROFILE CUSTOMERS & PARTNERS



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PRODUCTS







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HYSYTECH COMPANY PROFILE OUR PRODUCTS AT GLANCE





Hydrogen generation with Fuel Processing technology (3 Patents)





Biogas Upgrading technology (2 Patents)





Micro Liquefaction Technology (1 Patent)

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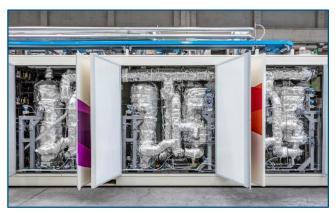


COMPANY PROFILE

HYSYTECH COMPANY PROFILE PLANTS IN ITALY, HYDROGEN FROM NG AND BIOMETHANE

Plug-&-Play solution for:

- High Purity Hydrogen (5-12 barg)
- Lowest Production Cost
- Lowest Installation Cost
- Low Power Consumption (<40 kW)
- Low pressure Natural Gas (20 mbarg)
- Fully automatic & ready to operate
- Small Scale (5-120 Nm3/h)





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HYSYTECH COMPANY PROFILE PLANTS IN ITALY, BIOMETHANE FROM MSW AND BIOMASS



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HYSYTECH COMPANY PROFILE LNG MICRO-LIQUEFACTION PLANT

- Gas Conditioning (Treatment)



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SPECIAL PLANTS

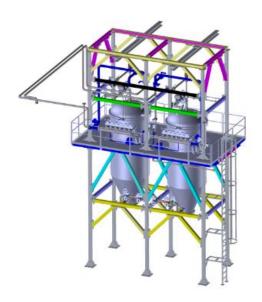






HYSYTECH COMPANY PROFILE PROCESS PLANTS: GLYCOL RECOVERY UNIT (SINGAPORE)

- Detailed Engineering
- Procurement
- Construction





• Process Area & Utilities

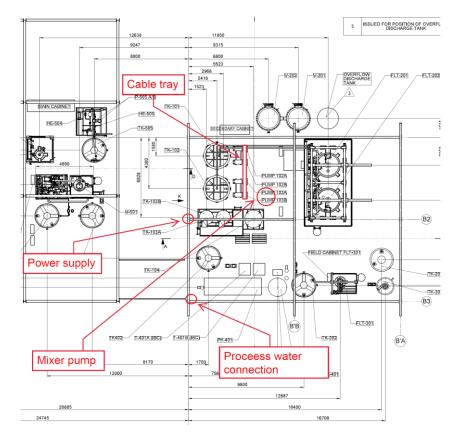
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HYSYTECH COMPANY PROFILE MODULAR UNITS & PILOT PLANTS: DISTILLATION COLUMN PACKAGE UNIT





- PED (CAT I, II, III, IV)
- ATEX (including group IIC)
- Skid Mounted Units
- (ISO-20, ISO 30, ISO 40, HC)



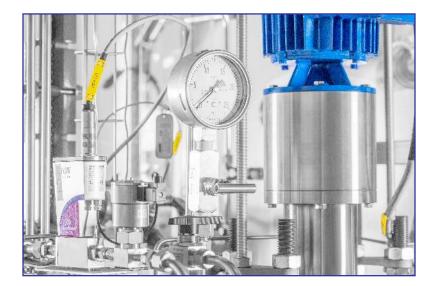
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COMPANY PROFILE

HYSYTECH COMPANY PROFILE LAB PLANTS



Design, turn-key construction and certification of lab plants for the characterization of innovative processes aimed at collecting accurate and precise experimental data.



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COMPANY PROFILE

HYSYTECH COMPANY PROFILE PRODUCT QUALIFICATION PLANTS





Design, turn-key construction and certification of product qualification plants **to support the production processes**, including automation for the execution of internal protocols or by certification bodies, including lot traceability.

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HYSYTECH COMPANY PROFILE GAS FEEDING STATIONS FOR STEEL MILL FURNACES



- PED (CAT I, II, III, IV)
- ATEX (including group IIC)
- Skid Mounted Units
- Container Units (ISO-20, ISO 30, ISO 40, HC)





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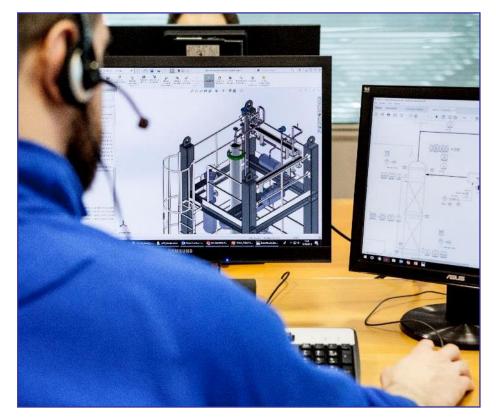
SERVICES







HYSYTECH COMPANY PROFILE ENGINEERING



- Project Development and Project Management
- Economic and Technical Due Diligence
- Contract Negotiation Assistance
- Technical and Economic Feasibility Assessment of Facilities Configuration, Projects, Patents or competing alternatives
- Business Plan Development and Support in order to obtain debt and/or capital from third parties
- Technology Transfer Assistance (UE, North America and BRIC countries)
- Technical and Legal Risks Analysis
- Conceptual Development
- EPC & EPCM
- Permitting Process Support (EIA, IPPC, Seveso, others)
- Energy Auditing & Process Troubleshooting
- General Engineering Services

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HYSYTECH COMPANY PROFILE MAIN ONGOING R&D PROJECTS



TERRA 2015-2019

production

Tandem electrocatalytic reactor for energy/resource efficiency and process intensification



STORE&G**O**

CELBICON 2016-2020 Cost-effective CO2 conversion into chemicals via combination of Capture. electrochemical

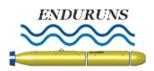
and biochemical conversion technologies

STOREandGO 2016-2020 Innovative large-scale energy storage technologies & Power-to-Gas concepts after optimization

biogas

fuel





ENDURUNS 2018-2022 Development and demonstration of a long-endurance sea surveying autonomous unmanned vehicle with gliding capability powered by hydrogen fuel cell











ENGICOIN 2017-2021

Engineered microbial factories for CO2 exploitation in an integrated waste treatment platform

RECODE 2017-2021

Recycling carbon dioxide in the cement industry to produce addedvalue additives: a step towards a CO2 circular economy

OCEAN 2017-2021

Oxaclic acid from CO2 using electrochemistry at demonstration scale

LIFECAB 2017-2020

and with Biogas digestate controlled ammonia content by a biowaste cvcle with virtuous integrated bio & chemical processes

PERFORM 2019-2023

Establishment of platform infrastructure for highly selective electrochemical conversions

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HYSYTECH COMPANY PROFILE CONSULTING



Our experience converges in the technological development of production processes, in the optimization of energy production and recovery, in environmental treatments and in the exploitation of by-products.

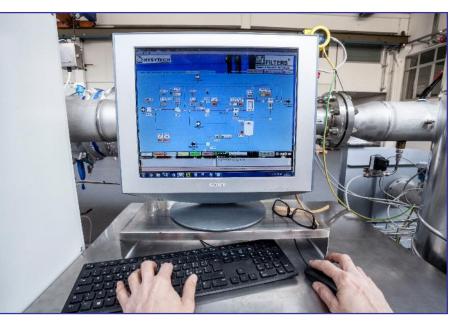
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HYSYTECH COMPANY PROFILE MONITORING, ASSISTANCE & MAINTENANCE





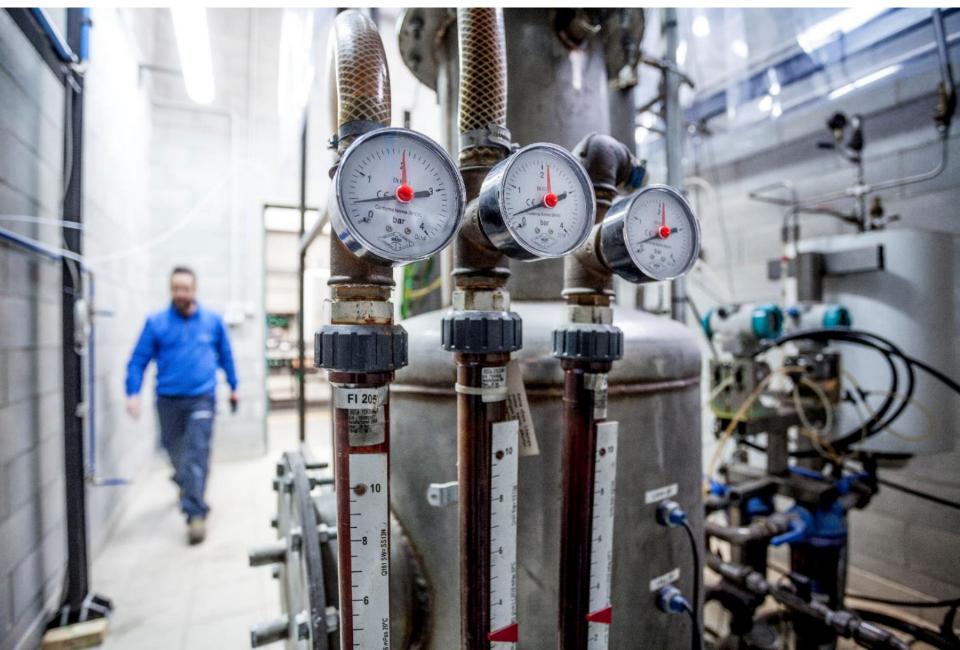
HST monitors the performance of plants from its own **Control Room**, located in the workshop in Turin.

- Remote monitoring and Assistance
- Scheduled Maintenance Service

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TECHNOLOGY DEVELOPMENTS







HYSYTECH COMPANY PROFILE GREEN CHEMISTRY & BUILDING BLOCKS



Complete plants for the production of basic chemical compounds from biological origin, starting from extraction from stabilized biological substrates to synthesis and purification

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HYSYTECH COMPANY PROFILE POWER-TO-GAS & METHANATION



Production of Biomethane and Renewable Gas from CO2 e H2. The plants are available both on the basis of biological and singlestage catalytic methanation.

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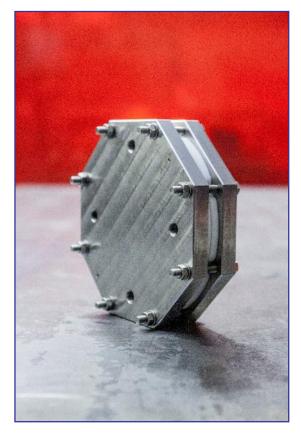


HYSYTECH COMPANY PROFILE HUMIC & FULVIC ACIDS \ ELECTROCHEMICAL REACTORS



Plants for the extraction, **purification and packaging of humic and fulvic acids** from stabilized biological substrates.

> Design and construction of electrochemical plants and reactors used both for advanced hydrogen generation and for the electrochemical synthesis of renewable substances.



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HYSYTECH COMPANY PROFILE FLUIDIZED BED GASIFICATION\TREATMENT OF VEGETABLE OILS & ANIMAL FATS FOR FUEL



Fluidized bed gasification of waste and industrial byproducts directly at the production site, generating gas to reduce consumption of methane, for the production of electricity or Biomethane.

Complete plants for fuel production, without chemical modification, suitable for cogeneration, starting from vegetable oils or animal fats, with high acidity.



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CAPABILITIES AND ORGANIZATION







HYSYTECH COMPANY PROFILE MAIN FACILITIES



The company has most of the facilities needed for the **design**, as well of those required for **construction**, **assembling** and **testing** of chemical plants from lab-scale up to full industrial size:

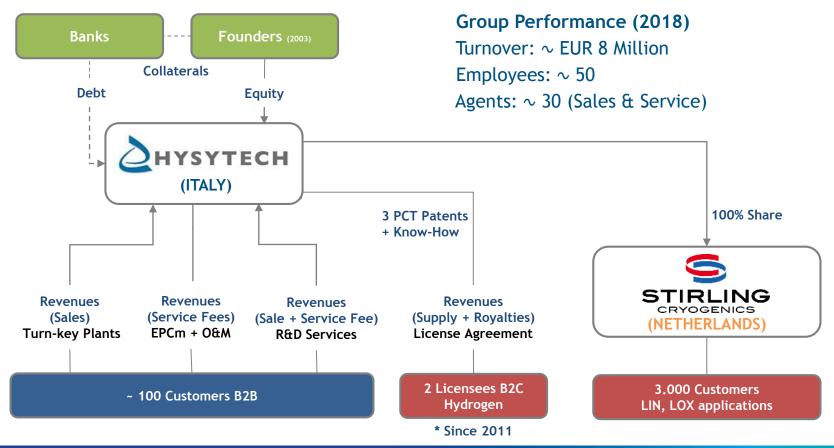
- Software and High Performance Computers for mechanical, thermal stress analysis (SolidWorks), process and CFD simulations;
- Electronic Lab and supplies for power and signals circuits, including Electronic Control Board development for custom control hardware and software;
- Standard and Micro-machining systems, welding, pressure testing and equipment certification PED, U-Stamp, ATEX;
- Analytical equipment for on-line fuel gas analysis via IR and electrochemical analyzer.
- Custom and fully-automatic Burner Rigs for development, testing and manufacturing quality control for prototypes.
- Chemical Lab for trials, testing and analytic chemistry controls;

Labs, testing facilities and manufacturing workshop are hosted in a dedicated industrial environment of 3.000 m².

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HYSYTECH COMPANY PROFILE ORGANIZATION



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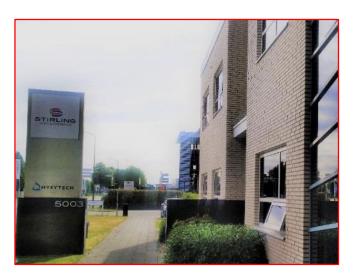
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HYSYTECH COMPANY PROFILE STIRLING CRYOGENICS



Office & Manufacturing Science Park Eindhoven 5003, 5692 EB Son, NL



Cryogenic Solutions

Stirling Cryogenics designs, builds and supplies cryogenic solutions based on the (reversed) Stirling thermodynamic cycle. Our Cryocoolers have a long history, a highly reliable track-record and efficiency, with **over 3,000 installations worldwide**, and they are considered a technological reference in the field of cryogenics with applications down to 15K (-258°C).

The application fields cover the liquefaction of gases such as N2, O2, Ar, Ne, H2 and, more recently, CH4. In addition, we also provide applications for the subcooling of cryogenic liquids (i.e. sub-cooled LNG). Some of these typical applications are:

- High Temperature Superconductors (HTS)
- MRI magnet cooling
- Space simulation chambers & Space Observatories
- Nuclear applications and Research
- Biotech (Cryo-storage: Cell, Tissue, insemination)
- Healthcare (on-site LOX)
- LNG/Bio-gas liquefaction, Boil-off recovery and Maritime

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HYSYTECH COMPANY PROFILE STIRLING CRYOGENICS



Cryogenic Solutions Over 3,000 installations worldwide.





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HYSYTECH COMPANY PROFILE ORGANIZATION AND CAPABILITIES



Main product is engineering focused on innovation to fill the gap.



We develop technical solutions on chemical processing, traditional and renewable energy, power generation and environment treatment.

Our **international experience** and technological background covers several fields: Engineering Prototyping, Pilot Plant and Industrial Facilities EPCM, **Process and Technology Implementation.**

We provide services:

- Mainly in Europe (Italy, Germany, Austria, Switzerland, England, Netherlands, France, Spain, Belgium, Lithuania)
- But also frequently in Extra-European countries (U.S., Canada, Singapore, China, Taiwan, Saudi Arabia, Uruguay and Chile)

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HYSYTECH COMPANY PROFILE OUR SHAREHOLDERS



Massimiliano Antonini Chemical Engineer Founder, CEO HR, Administration



Simone Solaro Chemical Engineer HSE, Procurement, Quality



Andres Saldivia Chemical Engineer Business Development, Communication



Corrado Farina Mechanical Specialist *Design, Construction*

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10135 Turin, ITALY

R&D Labs and Workshop

C.so Unione Sovietica, 612/26 10135 Turin, ITALY



Disclaimer

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In addition to statements which are forward looking by reason of context, including without limitation, statements referring to risk limitations, operational profitability, financial strength, performance targets, profitable growth opportunities, and risk adequate pricing, as well as the words "may, will, should, expects, plans, intends, anticipates, believes, estimates, predicts, or continue", "potential, future, or further", and similar expressions identify forward-looking statements.

By their nature, forward-looking statements involve a number of risks, uncertainties and assumptions which could cause actual results or events to differ materially from those expressed or implied by the forward-looking statements. These include, among other factors, changing business or other market conditions and the prospects for growth anticipated by the Hysytech management. These and other factors could adversely affect the outcome and financial effects of the plans and events described herein. Statements contained in this document regarding past trends or activities should not be taken as a given that such trends or activities will continue in the future. Hysytech does not undertake any obligation to update or revise any statements contained in this document, whether as a result of new information, future events or otherwise. In particular, you should not place undue reliance on forward-looking statements, which speak only as of the date of this document.

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