

# Energy Supply-Chain Plan Srl

ESCP Srl - Registered office: Via Socrate 26 - 20128 MILAN, CF and PI 09168620962, REA MI - 2073266, Cap.Soc. €10,000.00, certified e-mail: [escp@pec.it](mailto:escp@pec.it)

## **®GUPC: General Utilities Performance Contract**

Registered trademark (Italy, classes 35, 36, 37 and 38)

**®GUPC asks for broad trust from the Client,  
every link of the Supply Chain is dedicated to this commitment**

**®GUPC proposes, at "zero cost", energy requalification (electricity and heat), construction and primary resources: water, wastewater, wetlands and connectivity, with particular attention to extended social services (such as GentleCare), in residential areas, hospitality, tertiary and industry.**

**®GUPC presents an estimate of costs for each family unit: €20,000 to redevelop the efficient use of primary resources (water, electricity, gas, wastewater, wet waste and connectivity), and €10,000 for works aimed at promoting inclusiveness, in the safety of properties, remedy financial suffering.**

**®GUPC proposes interventions through its own network of workers, also opening up to requests from the client, in any case with sufficient requirements, also to receive tax credit to support the client's inability.**

Subject: Pre-feasibility

### Introduction

Given that ESCP Srl deals with research and studies for the saving of primary energy in the agro-zootechnical and food, industrial, residential and tertiary sectors, with a view to implementing the Technological Transfer to the market of these activities, it makes itself available for strategic consultancy to third parties, supported by relevant industrial and academic relationships.

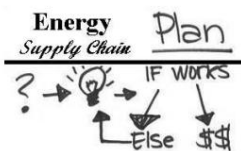
**®GUPC (General UTILITIES Performance Contract) is a registered trademark, it distinguishes and uniquely characterizes a service organized and managed through a know-how license (by ESCP Srl) and is aimed at every sector and of every size, all rights are reserved.**

ESCP Srl, among its activities includes the development of bioenergy, and in particular includes among its solutions included in **®GUPC**, MBGC (MiniBioGasContinuous). MBGC is an example of technological innovation in the Italian production of mini plants for the production of biogas and biomethane, from wastewater, wet waste and urban waste, through its own know-how and patents supported by relevant industrial and scientific report documents.

"all-in-one" - The formula expresses the excellence of ESCP Srl in the management of the "on-site" project under the guidelines of "turnkey" supply agreements, in the light of which the attitude is expressed to the role of System Integrator, providing clients with a real service free of anxiety and worries in the creation of the value chain (needs analysis, selection of suppliers, administrative procedures, execution and testing).

This excellence can be accompanied by equal excellence in project management, through **®GUPC** (General Utilities Performance Contract), in which ESCP Srl takes care of the entire investment from definition, implementation, testing and management, freeing the client from managing and acquiring topics and specific skills, sharing only the results with ESCP Srl.

Immediate to activate – **®GUPC** it is activated by means of a framework agreement, does not entail obligations and is always suspendable (subject to balance of ongoing activities and commitments). A "system integration" service that uses collaborations and consolidated products on the market, with reduced costs and testing times. The workers for



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installation, operational tests, commissioning of the system are widely planned topics with high reliability, therefore also supported by insurance policies provided to cover "risks of doing".

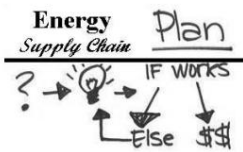
Times for administrative-fiscal procedures - The intervention plan uses the usual DIA/SCIA with very rapid authorization times, without significant procedural constraints towards access to benefits and incentives, including many automatic ones. Responsible bodies and inspectorates (ASL, Fire Brigade, ...) will be easily activated and informed and consulted in advance, obtaining preliminary opinions and streamlining

Scalable while respecting the environment - [@GUPC](#) it is also easily extendable in the event of increased needs for services and energy for the development of the client. With a view to high sustainability, it offers excellent solutions with respect for landscape and environmental impact issues, both for corporate and residential or agro-industrial sectors.

Constant monitoring - The innovative and profound scope of the intervention also lies in the technologies developed and selected by ESCP Srl: the remote control of the major operational, biological, chemical and physical parameters, and in general of the management and production efficiency of the electricity, thermal energy and any other related service (water, hygro-thermal conditioning of process or residential environments, wastewater, wet and connectivity), with significant use of RES and available resources, peculiar t

# **...Carpe Diem**

**...ESCP Srl seizes the times and opportunities for the RESTART, ...INNOVATING**



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## Strategic plan and technologies

**®GUPC** (General UTILITIES Performance Contract) is a registered trademark, distinguishes and characterizes the consultancy contract between supplier and customer, in which the supplier takes care of some customer services (including: water, electricity, gas, wastewater, wetland, ... and connectivity ( digital and social), indexed ISTAT/GAS and GG). For the duration of the contract, 10 or more years, consistent with the interventions relating to the services taken over (with the option of possible exit after the third year of management and discounting the remaining proceeds, deduced from the first three years), the contractors divide the overall benefit achieved in management (economic, fiscal and incentives identified of what is in vogue between 110, 90, 75, 65, 55, ...), between before and after the interventions neighboring market). GradiDay, m. are evaluated in the calculations (if new 2013 is evaluated). It is agreed that the Supplier's network and the local market will be used predominantly, with private tenders and pre-emptions at the Customer's requests (subject to commitment to the protection of the respective intellectual properties).

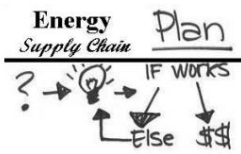
**®GUPC** proceeds as

- per the following phases: 1. Introduction and signature of a framework agreement, with confidentiality on any related development
2. Preliminary and pre-feasibility audit (€10,000 + VAT, expense fund on a "ZERO cost" plan, returned with the first operating management).
3. Advanced Audit and Feasibility (meeting resolution, the Customer's withdrawal is possible only upon payment of any activity incurred). The feasibility culminates in the drafting of the technological proposal and relevant economic-financial plan (with a guarantee of financial return, through a primary company's surety policy). The customer preserves the right to direct the feasibility to the reuse of his actualized share (in whole or in part), towards interventions instrumental to the asset subject to the intervention (building redevelopment or other of suitable sustainability).
4. Implementation and testing of the technological proposal (assembly resolution).
5. Coordination, monitoring and governance of performance.
6. Economic management and reporting with regulation of emoluments (on a quarterly basis).

## Technologies

**Water** – Once the relevant requirements and implementation regimes have been acquired, the most appropriate intervention is identified. Both the objective of efficiency and recovery from natural and renewable resources are pursued, using behavioral and technological principles (such as proprietary patents for solar desalination and more). Opportunities for the recovery and adequate storage of rainwater or other waste water, their treatment and the possibility of use in secondary services (in relation to existing or implementable systems) will be evaluated. The option of integration with recycled water from any treatments of local resources (brackish and non-brackish water, anaerobic digestion or phytoremediation processes or algal cultivation, separation from wastewater) will also be examined. The aim pursued is to resort to the bare essentials of third-party services (private or public, with the benefit of reducing any different costs at source, such as sewerage and purification).

**Light** – Attention is drawn here to the precious resource of electricity. Once the needs regimes (both specific and general) and relevant implementations have been acquired, the most appropriate intervention is studied. Both the objective of efficiency and recovery from natural resources (various waste, solar photovoltaic, wind, biogas deriving from wastewater and wet waste, ...) are pursued. Opportunities for recovery and adequate storage of the RES available on site will be assessed. Opportunities will be examined to balance with the use of distributed micro-cogeneration technologies (from RES or in any case from resources available at the site), implementing virtuous HSM (Hierarchical Storage Management) solutions. The use of advanced lighting technologies (LEDs and optical fibers) with home automation management (video surveillance, access controls, monitoring) will allow the need to be reduced at the source, significantly increasing the energy independence indices from third parties. The integration with the production and storage systems will also allow significant support for sustainable mobility (electric and/or methane), compatibly with the on-site availability of hydrogen and fuel cells.



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**Gas** – In this sector the management of environmental conditioning (cold, heat, DHW) is analyzed, with prior and fundamental adequate adjustment of the efficiency of the envelopes. Once the requirements regimes have been acquired (both specific and general) and relevant implementations, the most suitable intervention is defined. We pursue both the objective of efficiency and recovery from natural resources (solar thermal, geothermal and environmental), as well as local waste resulting from virtuous micro-cogeneration processes or otherwise. Opportunities for recovery and adequate storage of the RES available on site will be assessed. Opportunities for integrating and balancing energy production will be examined with the use of distributed production technologies (from RES or otherwise available at the site, for example from wastewater and wet waste), implementing virtuous HSM (Hierarchical Storage Management) solutions. The use of RES collection technologies and their optimized management aims to cover cooling, heating and DHW needs. Structural efficiency interventions will be examined (envelope, both walls and pitches, opaque or transparent) first of a construction nature (insulation and fixtures) and then of a plant nature (generation groups, storage and distribution). Requests for specific internal solutions to specific housing units will also be welcomed, which will want to adopt technological and furnishing solutions functional to general efficiency and sustainability (such as thermo heating/cooling units and in general to improve specific aerobic and environmental micro-comfort). Safety and seismic prevention will accompany the systemic intervention.

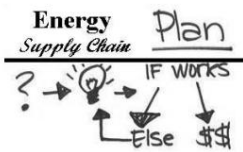
**Wastewater** – Having examined the current structure and layout of the collection and pre-treatment systems for rainwater fluids and wastewater of various origins, interventions are evaluated for a more effective management and valorisation of the organic and inorganic components present. This will be projected towards an immediate separation and conditioning of the by-products, characterizing them sufficiently to be destined for further production processes (CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>, NPKx and/or liquid fertilizers for agro-processes adjacent to the territory). Their effective treatment may also involve implementations and improvements of common practices in relations with local environmental bodies (purge companies, maintenance of tanks and septic tanks). This will produce a significantly lower contribution to the greenhouse effect due to CO<sub>2</sub> and CH<sub>4</sub> commonly released into the atmosphere (and not perceived as odorless), already in the first contiguous stages of the organic degradation processes in preliminary stagnation rooms, local and public networks, purifiers Then.

**Wet** - The current structure and layout of the collection plants and infrastructures, pre-treatment of the wet (collective and individual), interventions are evaluated for a more effective management and valorization of the organic and inorganic components present on the site. This will be projected to an immediate separation and conditioning of the outputs, characterized enough to be destined for further production processes (CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>, NPKx and liquid fertilizers for agro-processes adjacent to the territory). Their timely and effective treatment (for example using dissipators) may also lead to implementations and improvements in the general health condition (less odorous and functional impacts in housing units and common spaces).

Conveyed together with the wastewater into imhoff pits, they will be treated and separated into components directly addressed to valorisation processes. This will produce a significantly lower contribution to the greenhouse effect due to CO<sub>2</sub> and CH<sub>4</sub> commonly released into the atmosphere (and not perceived as they are odourless), already in the first stages of the organic degradation processes in preliminary stagnation compartments (6/12)

**Connectivity** – With the analysis of this area, we are projected towards an ideal structure to benefit from integrated communication consistent with modern times and the resulting social criticalities. The possibility of setting up common and effective services for the use of the Internet, Telephony, Radio and TV, together with greater internal connectivity, is being evaluated. Tools that will be able to improve social communication, greater integration and therefore combat isolation, containing the relevant and increasingly growing autistic risks. The demographic growth trend will increasingly intensify the density and sharing of urban resources (in 2050 a world population of 10 MLD is expected, 80% of the community will live in very dense areas, around 8 MLD). The site becomes functional to the "distributed and pervasive" objective of cloud computing, big-data storage, blockchain.

**Urban Mobility** – **@GUPC** (General UTILITIES Performance Contract) in its UTILITIES provides digital and physical connectivity, preparing for better urban mobility, with services for methane, hydrogen or electric cars; taking advantage of local management of energy surpluses (from solar **@GUPC** - © Copyright - This document is to be considered authentic, reserved, confidential, covered by intellectual property law [info@escp.it](mailto:info@escp.it), [www.escp.it](http://www.escp.it)



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thermal, photovoltaic, as well as wind or other) and storage systems; charging and refueling stations, together with infrastructures with logistical spaces serving eVTOL (electric Vertical Take Of Landing) for the transport of people and things in urban and peri-urban areas, best interpreting the functionality of roofs, terraces and pitches, useful for "drone /taxi air services".

**Welfare** - The study will also find space for proposals towards the social state, evaluating the value generated by common, recreational spaces for the elderly, children, as well as functional to common life: condominium laundries, services and workshops (DIY), with particular attention to models of GentleCare, e large social groups from which it derives and is in vogue (usually the elderly and health facilities), however open to inclusiveness and fragility in general. The economic capacity to host and set up health monitoring and management bases will be assessed, to integrate health care services (public and private). The site lends itself to a "distributed and pervasive" contribution to the well-being of the entire community.

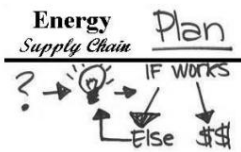
**Real Estate** – Where the terms apply, evaluate infrastructure implementations, with programs for the elevation or saturation of volumetric indices, in order to produce emoluments for the interventions of interest common (both towards environmental energy needs and economic development), without resorting to extra liquidity. Compatibly with local urban plans, the general redevelopment intervention becomes the opportunity (having already activated construction site opening and safety) for the real estate expansion in height (1 floor), using innovative products and technologies compatible with the structural criticalities (innovative, insulating, efficient, lightweight products, ...), keeping in mind social development and conviviality. higher housing indices, will not burden public infrastructures, as they will be commitments fulfilled on site, together with those of the previous inhabited area, referring specifically to water, wet waste, wastewater (transport and purification), as well as electricity and gas due to the greater autonomy achieved . Processes to increase real estate value, opening up a lot towards inclusiveness. Where significant, solicit interventions for greater culture and seismic safety, thanks to the role of exo-skeleton of the structure.

**Sizing** - ESCP Srl, through its technicians and employees, will be able to carry out the preliminary sizing and their ratification through timely analyses, based on the availability of the resources identified and with potential transfer plans through analysis of the territory. In the executive phase and its evolution in the development of the management phase, it will be a diligent part in drawing up incisive, solid and long-lasting plans.

**Administrative procedures** - ESCP Srl takes care of every requirement and supports the client in obtaining the necessary permits, subject to availability of the client's data and contact persons.

**Maintenance**, thanks to remote controls, will be essentially predictive, coordinated directly by the ESCP Srl network and its affiliated workshops throughout the national and foreign territory, integrated by a high level of supervision from its operational offices. **®GUPC** It uses excellent dedicated tools and software (such as ZEM, reserved trademark). The interventions make use of the complex network of partners in the specific sectors, carefully examining every profile of economic-technical convenience.

**ESCP Srl with exclusive patents and know-how, INNOVATES according to INDUSTRY 4.0**



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## Investment analysis

Profit sharing with [@GUPC](#) – ESCP Srl creates wealth, generating a new and secure income for the client: the current aid regime, in terms of capital and interest, makes the intervention virtuous, already endowed with its own self-sustainability. For the utilities in charge, the best available solutions and tariffs are proposed, with the consequent best return on investment structure, especially when integrated with other intervention proposals from the ESCP Srl portfolio and by virtue of the critical mass identified.

The "distributed and pervasive" is worthwhile - From today, thanks also to the culture and technologies available (Industry 4.0), the pervasive and distributed action is effective (both in the production of resources and in the valorisation of their by-products), the critical masses evident from more services, makes the recovery of energy from renewable sources in a distributed way virtuous, as well as the solution to long-standing problems regarding by-products, which, although valorised and selected on site for specific processes, increase the environmental value of the proposed intervention. Many European regions are taking action to support businesses with various types of support, including non-repayable ones. Investing in [@GUPC](#) produces a high net income. Not to mention that the intervention, by valorising by-products, with multi-year plans of economic and environmental supply chain agreements, becomes a source of income.

[@GUPC](#) can be co-financed by selecting different financial products; ESCP Srl and its partners allow you to access the best financial products and financial institutions for the sectors dedicated to the economic development of the agro and industrial sectors, in Italy, in Europe and on international markets.

The feasibility of individual interventions can refine and improve the industrial plan, considering different channels of access to financing, fiscal capacity, use of incentives (on capital or interest), therefore dimensions of the real intervention and overall benefits more in line with the constraints that will emerge.

## Conclusions

ESCP Srl, with its potential, offers an in-depth analysis through specific analyses. Through an adequate plan of investigations conducted by our representatives, both administrative and technical, prepare sampling and appropriate analyzes on existing samples or situations, in order to proceed with an operational proposal, consisting of a technical-economic plan (complete with specific specifications), economic-financial plan (complete with the opinions of the granting bodies and coverage of the expected returns). The specifications will be drawn up by a company appointed by ESCP Srl, which, directly or with its representatives, like others (also at the request of the customer) will proceed in private tenders (if the works are not awarded, the drafting costs will be recognised, 3%, from the successful tenderers). The study is normally listed in a current financial year and will be fully covered in the proceeds of the launched project, from a "zero cost" perspective, understood as no further cash-out item on expenses related to the zero moment of the pre-feasibility study,

*...brings liquidity and values between €30k and €150k per unit.*

## ESCP Srl

*re-Start by GREEN Start-up*

## Energy Supply Chain Plan

*owner exclusive Innovative Industrial Property GREEN*