

PROJECT PROPOSAL

PROGRAMME “PROGRESS”: CALL FOR PROPOSALS VP/2013/010 “Delivering on Skills for Job and Growth”.

Summary

The project aims at developing and testing the pilot experience of San Patrignano Community in the field of green economy, and at exchanging best practices, in particular in the energy sector (photovoltaics; biogas plants using biomass and organic waste from breeding and agriculture activities; cogeneration for the simultaneous production of electricity, usable heat for heating and cooling for the air conditioning; computer network monitoring energy consumption and a business intelligence Platform). Activities in this field are aimed to create new employment opportunities, increase skills and capability in this sector through requalification of disadvantaged people (former drug addicts).

Context note

San Patrignano good practice consists in the re-integration into the labour market of people with a past of drug addiction, where vocational training in high coveted skills is the key factor in getting people started on the path towards employment.

The project idea raises from San Patrignano attention and respect for nature, sustainability and recycling.

The evolution of San Patrignano, from a farmhouse surrounded by rural terrain to a complex reality, has always been characterized by a respect for nature and environmental sustainability. Respecting the environment means recognizing the harmony of life and regaining, along with it, respect for oneself and the others. It is a way to educate young people, raise awareness and responsibility.

For over 30 years, San Patrignano has welcomed young men and women with serious problems linked to drug addiction completely free of charge, without requesting any kind of contribution from their families and without state funding. The community is currently home to about 1,300 young men and women. San Patrignano has confirmed and extended the hunting ban on its property approved by the Province of Rimini in 2006. A total area of 230 hectares now represents a natural oasis for local wildlife.

San Patrignano has a sound network on its territory with public and private institutions and organizations, concerning the social and educational issues of its residents, in view of mutual exchanges, as well as active as supplier of the exceeding electricity to the public utility companies.

San Patrignano is investing in the development and innovation in the field of energy and environment, to minimize the environmental impact and contribute to the production of renewable energy, and at the same time promoting the employment of its residents in the field of green economy.

Best practice exchanges could represent an opportunity for other small communities for improving and developing an integrated waste and environmental approach aiming also at increasing skills and job opportunities.

A sustainable community. Social energy

San Patrignano signed an agreement with Enel Distribution and Enel Green Power within a project of sustainable development promoted by Energy Services Management. The agreement with Enel Distribution and Enel Sole includes three main areas of activities: sustainable mobility, public lighting and Energy Efficiency. In addition, Enel Green Power has donated solar panels to the Community, saving over 30 tons

of CO₂ every year. Regarding sustainable mobility, two recharge points were installed that use the energy produced by solar panels, an Enel Electric Mobility Management System. The two electric cars donated to the Community use this recharge point.

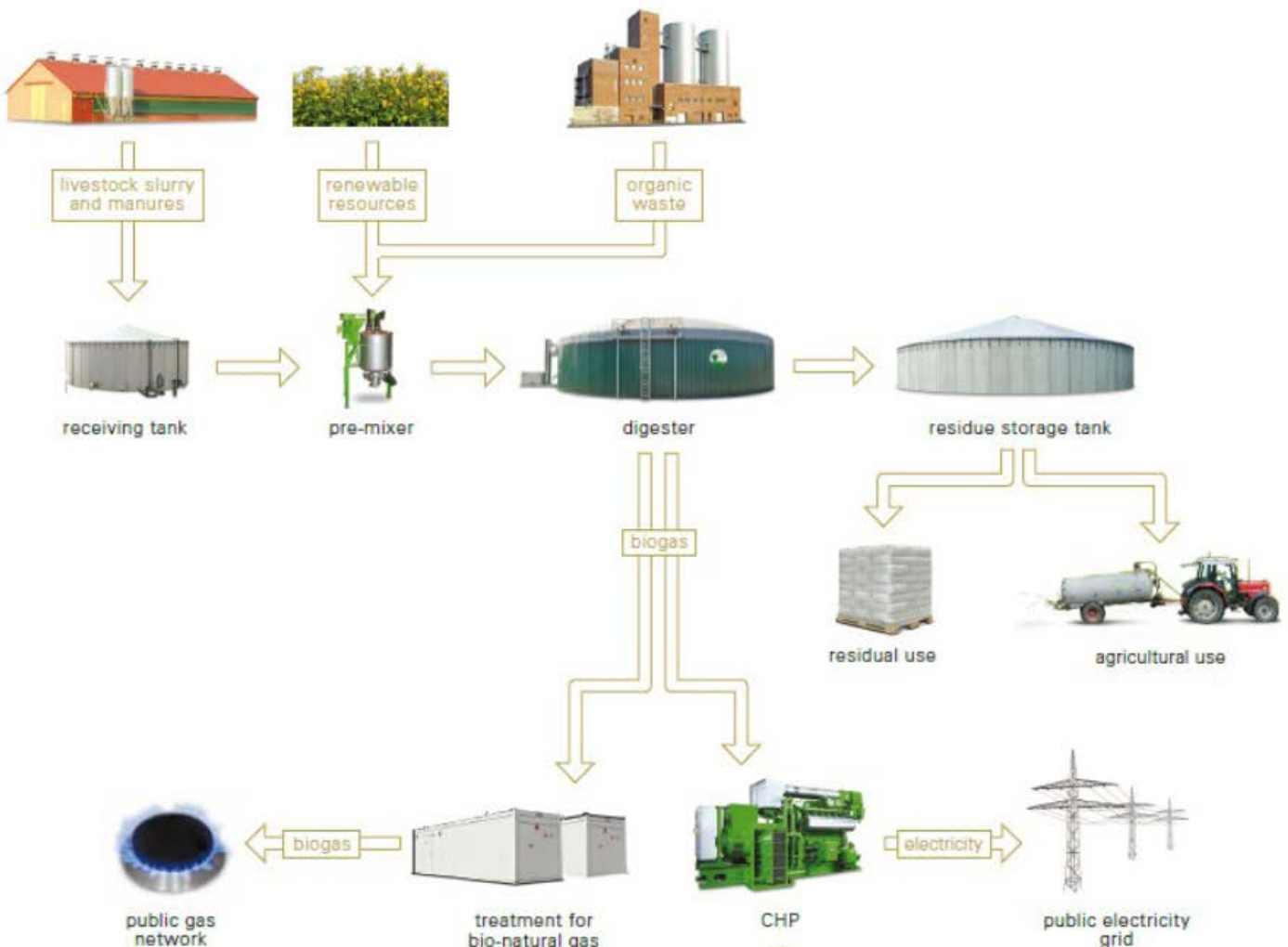
Cogeneration

The cogeneration plant uses methane gas in the combustion process of the engines and guarantees the supply of hot water for heating and of cold water for cooling. The latter is produced by absorption-type refrigeration units that use waste heat from the engines and electrical refrigeration units, which use the energy produced by cogeneration.

This allows the Community to avoid when possible the purchasing of renewable electricity generated by third parties and, at the same time, make it possible for the exceeding electricity to be fed back into the national power grid when not needed by the Community itself. The plant both saves the Community money and reduces its environmental impact.

Biogas: San Patrignano is investing in a project for realising a plant for anaerobic digestion to generate energy from organic waste derived from agricultural and breeding activities conducted on the Coriano Municipality.

San Patrignano will realize in 2014 a plant for anaerobic digestion to generate energy and compost from organic waste. The inclusion of an anaerobic digestion plant in the breeding and agricultural activities allows to take advantage of a biomass, breeding sewage and agricultural byproduct, usually considered a cost and managed as an environmental problem, for the production of biogas and the conversion into electricity and heat. Biomass is produced by farms and agricultural production in San Patrignano, as well as gathered from all over the territory of Coriano Municipality, which has an agricultural vocation.



Energy efficiency

San Patrignano devotes part of its technical resources to the identification, design and implementation of measures for energy efficiency and to the reduction of the consumption of energy and water. Some measures have already been implemented and others are in progress.

To this end, San Patrignano started in 2013 the development of an IT infrastructure for monitoring energy consumption levels and the implementation of a business intelligence platform, using measuring equipment supplied by the Italian leader ENEL ENERGIA.

Partnership

San Patrignano is lead applicant.

Italian partnership will involve the Municipality of Coriano.

To be verified the involvement of other public authorities (national and local policy makers in the field training and labour market).

Other EU Member States: we are looking for a partner interested in the exchange of best practice. Local public body, or NGOs.

Objectives

Main objective is to increase the employment of people in the field of green economy, energy sector.

Training measures on innovative green jobs will be realized to fill in the gaps for what concerns know-how and skills on the labour market. Training courses will be addressed to San Patrignano residents as well as to Coriano

The project will also be focused on best practice exchanges and on the feasibility study of replicating San Patrignano model.

The project will contribute to the strand *green jobs*, in the sector:

Energy: electricity, gas, steam and air conditioning supply.

Beneficiaries

The project is addressed to disadvantaged people (former drug addicts, residents in San Patrignano Community) as well as at unemployed people of the Municipality of Coriano and surrounding area, who intend to specialize in professions of the energy sector.

Workplan

The aim is to develop a set of actions under the stream Green Jobs in the professional area "Energy Development and Management". The project will be developed in 3 workstreams:

1. Analysis and Planning
 - 1.1. Identification of skills needs and training/support measures to put in place to address the identified gaps.

1.2. Creation of training curricula of 5 professional profiles (identified on the current San Patrignano needs):

- a) Technician in management and running biogas plants
- b) Technician in monitoring and maintenance of photovoltaic systems
- c) Energy efficiency technician
- d) Technician for cogeneration plants.
- e) Energy manager

2. Piloting

- 2.1. Realization of the 5 training courses (at least 60 people trained)
- 2.2. Job reintegration of the first people trained.

3. Best practice exchange and dissemination

- 3.1. Workshops and focus groups
- 3.2. Drafting of guidelines on identified tools
- 3.3. Feasibility study on the replication of San Patrignano model.
- 3.4. Final conference.

Expected results

The project will enable the creation of new training courses on the identified jobs. Procedures will be started in order to get the training standards recognized by the regional authority Emilia- Romagna -whose standards are recognized at national and European level - and the certification of trained people in the new approved qualifications.

It is expected to train at least 15 people on the 5 identified professional profiles , and facilitate the access to labour market in the energy sector .

The needs analysis will provide information and recommendations for the educational programming of the authorities in the areas involved in the project. Training standards created will provide the tools to boost the training of workers in the energy sector.

Budget

EU contribution max. 900,000.00 € (80% of the eligible costs)

Private cofounding: 20% of total costs.

Duration

18 months.

Starting date: June 2014