

RENEW-TRANSNET

Renewable Energy Technology Transfer Network

Description of the work

Starting from an patent developed out of Renew Transnet, the final output of the project will be an optimised and tested new promising reasonable cost, process of conversation of biomass into biohydrogen and a process integration of small medium, large, biohydrogen generator.

The multi-steps technology foreseen by the patent will be tested and validated giving to the patent an economic value to exploit.

Some points must be yet solved, mainly about the process integration.

Actions

During the Renew Transnet Project, with the support of the RTD partners and network that the programme has been building, and according to the exploitation process established by the consortium, the following action will be carried out:

- ◆ full market analysis in order to:
 - identify the market opportunities for the system
 - analyse in dept the needs of the potential users
 - identified barriers and threats
- ◆ definition of the Final Exploitation plan according to the results of the market analysis
- ◆ definition of the marketing plan
- ◆ analysis of solutions to implement a demonstrator plant
- ◆ identification of potential business partners:
- ◆ B2B meetings
- ◆ Participation to matchmaking events and conference organised by Renew Transnet.

Applications

The technology obtained could be used in all the context where it could be convenient to produce biohydrogen starting from biomass resources.

The portfolio of the possible applications depends on the biomass resources available and on the economical feasibility.

According to the current know how, the company has identified the following potential users:

- ◆ Industrial application for energy production
 - ◆ Distributor of hydrogen for medical applications
 - ◆ Small and medium Petrolchemicals plants
 - ◆ Filling station (for hydrogen vehicles demonstration): the storage and the transport of hydrogen is a critical issues both technical and economic side. A decentralised production of bio-hydrogen, at the filling stations by small capacity units can be foreseen in a medium future scenario.
- At the moment, the realisation of a demonstrator plant could be interested for organisations involved in this sector of sector and which need of visibility.



The technology will be optimised for small plants which means 1 ton per day, so this is the needs that the potential customers should have.

During the project the needs of the potential users and the market potentialities will be analysed in order to get the patent and/ or the know how appealing to interesting industrial organisation.



Project Title

Renewable Energy Technology Transfer Network (RENEW-TRASNET)

Contract Number

Duration

Global Project Cost

EC Contribution

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Participants

