

INDUSTRIAL SYMBIOSIS NETWORK IN UMBRIA, ITALY

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DESCRIPTION

This project regards the activity developed by Sviluppumbria (Multi-functional Agency of the Umbria Regional Authority) and ENEA (Italian Agency for New technologies, Energy and Sustainable Economic Development) in the framework of the project to support SME's to individuate symbiosis opportunities at regional level. The project for an Industrial Symbiosis (IS) network in Umbria is currently in progress and at this stage includes: analysis of the productive sector in Umbria; local network activation with public and private actors; and collection and processing data. Two workshops have been held in Terni and Assisi, where more than 50 SME participated, sharing 200 resources in output and about 80 resources in input. More than 200 potential matches were found among the participating companies which will be processed by ENEA to realise technical dossiers .



MAIN RESULTS

At this stage of project it is possible to show the first results of the workshops. At the workshop held in Terni, on 7th of April, the distribution of companies by production sector appears balanced, as they came from the manufacturing sector, energy, chemistry, agriculture and construction. Instead, at the Assisi workshop, held on 9th of June, most companies came from agricultural sector (about half of participants), followed by manufacturing sector and with a small contribution of energy, paper construction sectors. More than 250 resources were shared and about 200 potential synergies were identified, as reported in Table 1.

Table 1. Resources shared and matches during the Terni and Assisi workshops

	Terni's Workshop	Assisi's Workshop
Resources Input	32	35
Resources Output	95	90
Matches	95	90

CONCLUSIONS

After the workshop ENEA and Sviluppumbria sent to the companies a summary report with the first results coming from the workshops. In addition, all data collected on resources and matches were merged into a single file, called "master report". This master report includes also the potential additional matches proposed by ENEA. The company report for each company have been extracted from the master report and have been sent to the companies involved. The company report is the first step for implementing an IS pathway. At this stage the companies are actively involved and received the reports on resource shared and potential synergies. The collaboration between ENEA and Sviluppumbria is really advantageous in order to receive a good response from the local productive actors. Currently, ENEA is working on the identification of the main resource streams which will be studied for the dossier. The next steps will be the involvement of the interested companies to focus on specific solutions for waste valorization and a consultation with other stakeholders, in order to analyse the feasibility of the synergy and the potential barriers.

