EMARES
enhanced material recovery and environmental sustainability

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LIFE12 ENV/IT/000411

DELIVERABLE n. 35

Report on information exchange – Action E3

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- This deliverable contains the report of the visits for exchanging of knowledge and experiences with other LIFE project.

1st visit for information exchanges and networking – LIFE CCHP - http://www.life-cchp.eu/accueil.html

The first visit was held the 15th of June 2015 in Manè (FR) for the LIFE project CCHP Envir. Sfi., project number LIFE 09 ENV/FR/000601. This project concerns integrated actions for improving the environmental sustainability of several activities as sustainable buildings, wastewater treatment and waste management. The beneficiary of the project was the Communaute de Haute Provence which includes 8 rural communities. The area of the activities of this project was represented mainly by the ones of the eight municipalities of the Communaute de Haute Provence. Concerning the waste management the LIFE CCHP introduced innovation mainly in the separate collection for increasing the amount of recyclables and reducing the amount of waste disposed of. These two last aspect resulted in compliance with the goals of the LIFE EMaRES project.

Main innovation introduced by the LIFE CCHP was the implementation of a separate collection for plastics, paper and cardboard, glass and residuals. In particular the previous collection system was upgrade by the introduction of road columns for the collection of these waste, realized in each municipality, and by the construction of a ecologic station serving the whole municipalities. These implementation leads to significant reduction in the costs of the waste management and to an improvement of the quality of the whole collection system.

The visit was split in two parts. A first day was dedicated to the visits of the collection system and of the ecologic station (Figure 1 and 2). A second day was dedicated to the exchange of experiences and future networking (Figure 3).

The visit was very fruitful both for exchanging experiences and future implementation of the innovation demonstrated by the two project both for the networking activity. In particular, concerning this last aspect, the LIFE EMaRES team and LIFE CCHP team are working together for finding future possible integrated collaboration.

Figure 1: *Systems for separate collection of the LIFE CCHP.*

Figure 2. *Ecopoint of the LIFE CCHP.*

Figure 3. *Sharing experiences between LIFE EMaRES and LIFE CCHP projects.*

Mathieu Curnier lance son entreprise de plomberie

Après Sébastien et sa carrosserie dans notre édition d'y il y a quinze jours voilà un autre enfant du pays qui se lance comme artisan-entrepreneur ...nous l'avons d'ailleurs rencontré sur un chantier à deux pas du collège Henri Laugier où il a été élève ! Mathieu Curnier fils et petit-fils d'une famille bien connue à Forcalquier s'est installé le 1er avril dernier à son compte en plomberie, chauffage, climatisation, pompes à chaleur avec notamment une aide au démarrage de l'initiative Haute-Provence la plateforme qui donne un bon coup de pouce aux challenges d'entreprise. Après avoir été salarié chez Georges Mavravouniotis puis à Gémosolia, Mathieu (28 ans) titulaire d'un CAP sanitaire CAP chauffage obtenus à Digne complété par un CAP Froid et climatisation décroché à Aix, a décidé de sauter le pas et de s'engager vers une clientèle notamment de particuliers pour son compte. « *J'y réfléchissais et c'est fait !* ». Le jeune plombier propose aussi des travaux d'isolation par l'extérieur (polystyrène, laine de bois...) de la pompe à chaleur et géothermie et pour l'heure attend l'obtention (son entreprise a deux mois) des labels. Volontaire et attentif aux demandes de ses clients, Mathieu exécute devis gratuits et conseils. Souhaitons-lui belle réussite dans son aventure.

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Pompe à chaleur - Climatisation
Zinguerie
Plomberie - Sanitaire Dépannage
Travaux rénovation et neuf
La solution énergétique

MANE

Saint Jean : la fête retrouvée

Une belle soirée de la Saint Jean... où encore une fois l'association Mane en fêtes a su mobiliser les Manarains avec une superbe animation musicale avec le groupe « Syndicat du Chrome ». Dans leurs habits très jazzy les musiciens ont accompagné les Manarains pour la traditionnelle retraite aux flambeaux. C'est la fête du solstice d'été et cela remonte à la nuit des temps, une fête populaire où chacun se retrouve pour témoigner sa joie autour d'un grand feu. Les joyeux crépitements reprennent au fil des années, la tradition n'est pas perdue. Comme le souligne la Présidente Martine : « *c'est une fête de symbole, de paix et de fraternité* ».

J.L.T

MANE

Echanges d'expériences des deux côtés des Alpes

Dans le cadre du projet Life dont nous avons fait plusieurs fois écho en nos colonnes, un échange d'expérience s'est organisé entre la Communauté de communes de Haute-Provence porteuse de ce projet de développement durable et la région de l'Ombrie en Italie. Voici quelques jours une rencontre s'est tenue à Mane avec des représentants de LIFE/EMARES venus d'Italie pour parler du tri sélectif des déchets. Cette rencontre avait pour objectif d'échanger et partager sur une expérience respective en matière de gestion des déchets : « *ce fut une rencontre fructueuse qui permet à chacun d'améliorer encore les dispositifs mis en place dans les projets* » souligne Karine Machari chargée de la communication de la communauté de Haute-Provence ici à gauche de l'image en compagnie des voisins de l'autre versant du Montgenèvre.

Jean-Luc TROUVÉ

BANON

17 pinceaux pour une palette bleue

Créée dans les années 1990, l'association « La Palette bleue » compte 17 adhérentes. Les 26 et 27 juin au Foyer rural, peintures et aquarelles s'offraient à un public ravi. Des nus, des portraits d'enfants, des bouquets, des paysages avec ou sans lavande, notamment un Mont Ventoux en automne, disaient le plaisir des auteures. Plaisir partagé par leur professeur Jacques Pecoul passionné de peinture depuis l'âge de 15 ans. Son enseignement n'est pas purement oral. Il met la main à la pâte ou plus exactement au pinceau, rectifiant ici ou là une perspective en rappelant les règles asymétriques du mystérieux nombre d'or. Michèle Lauthier présidente de l'association (0492732182) reçoit les inscriptions. Les cours se tiennent le lundi à partir de 14 h dans les locaux de la CCPB.La Palette bleue vous en fait voir de toutes les couleurs... et si c'était ça le bonheur tout simple de peindre ? C'est aussi une histoire d'amitié et de passion partagées. Le bleu est devenu la couleur universellement préférée des habitants de notre planète bleue... une belle coincidence !

Michel JOBIN

Figure 4. *New paper article of the exchange of experiences between the LIFE EMaRES and LIFE CCHP projects.*

2nd visit for information exchanges and networking – LIFE BIOLEAR - http://biolear.eu/

The second visit was held on 16th of July 2015 on the site of the LIFE BIOLEAR project, project number LIFE09 ENV/IT/101. LIFE BIOLEAR sites were in Cerro Tanaro close to ASTI in the Piemonte region (IT). The aim of the BIOLEAR project was to enhance the bio-stabilization and the amount of energy recoverable from sanitary landfills during post-closure period. The beneficiary of the project was GAIA s.p.a. that is the company charged of waste management in the considered area. In practice GAIA s.p.a. implemented of the closed portion of the Cerro Tanaro landfill a system for recirculating the leachate. This was performed by the construction of a dedicated pipe network able to pump the leachate from the storage tanks to the reinjection system. This latter was realized by drilling reinjection wells around some of the existing well for the collection of the landfill gas. The whole system was equipped with an automation and control apparatus. In this way the optimization of the levels of humidity inside the mass of the disposed waste enhances the biodegradation process leading to an higher generation of landfill gas, rich in methane a exploitable as renewable fuel, and contemporary leading to a more rapid bio-stabilization of the waste. The improvements in the management of landfills resulted of relevance for the management of the residual waste due to the large use of landfill as disposal methods in many Italian and not Italian regions. Even if the aim of the LIFE EMaRES was to increase the amount of recyclable extracted from the waste both by a door to door separate collection and by the mechanical treatment, the improvement of the environmental sustainability of landfill resulted of particular interest also for the partners and for the area of the LIFE EMaRES project..

During the visit there was an important exchange of technological solutions necessary for the innovative management of the landfill and also an important exchange of information concerning the environmental impact analysis.

Figure 5. *Sharing experiences between LIFE EMaRES and LIFE BIOLEAR projects.*

3rd visit for information exchanges and networking – CRUCOLI municipality - http://www.comune.crucoli.kr.it/

The third visit was held on the month of 2nd of July 2015 in the municipality of Crucoli in the province of Crotone (IT) in the Calabria region. Crucoli is a municipality consisting of about 4,000 inhabitants quite equally shared in the old historic centre, on the top of a hill, and in the recent area of Torrette along the Ionian see. The major of Crucoli was strongly interested in the implementation of the results of the LIFE EMaRES project in its municipality and to start collaboration for the improvement of the whole waste management system. Municipalities near Crucoli showed similar features and a strong will to improve their waste management system mainly by a separate collection of the waste for the maximization of the recyclables.

Currently, on average, the separate collection of waste in these areas is < 30% and for this reason there is room for significant improvements. Furthermore in the whole area the landfill still remain the larger management system currently adopted including also the organic waste.

During the visit different activities concerning the improvement of the global waste management system were discussed. The LIFE EMaRES team and the municipality of Crucoli are currently working for the realization of innovative project able to improve the environmental, economic and social efficiency of the waste management system.

Figure 6. *Sharing experiences between LIFE EMaRES and the municipality of Crucoli.*

4th visit for information exchanges and networking – LIFE MARSS – http://www.marss.rwth-aachen.de/cms/front_content.php?idcat=1&lang=2&changelang=2

The fourth visit was held on the 11th of November 2015 in Mentesdorf (DE) for networking and exchange of experiences with the LIFE MARSS project, project code LIFE11 ENV/DE/000343. The LIFE MARSS project was centred on the mechanical treatment of waste for the Material Advanced Recovery Sustainable Systems. The beneficiary of the project was the University of Aachen (DE). The area of the project was represented by the waste treatment facility of RegEnt GmbH closed to Mentesdorf. The LIFE MARSS project goal was the construction of a 10 t/h plant able to process the residual waste for returning an organic fuel. The pilot facility was realized at the site of a full scale bio-drying plant processing about 100 t/day of residual waste collected in the surrounding area for generating a solid recovered fuel exploited in substitution of fossil fuel in a steel factory. The pilot facility consist of different mechanical treatment, as crushing and milling, integrated with sorting and screen systems based on dimensional, fluidodinamic and inertial principles. The pilot facility process the material returned from the previous treatment of the full scale bio-drying facility and returns a product characterized by an high concentration of organic components.

This activity was in line with the B3 and B4 of the LIFE EMaRES project and for this reason the exchange of experiences was very useful.

Figure 7. *Sharing experiences between LIFE EMaRES and LIFE MARSS projects.*