Intelligent Bioenergy Network s.r.l. – iBioNet s.r.l.

iBioNet (Intelligent Bioenergy Network) is a spin-off of the University of Florence, established in 2015.
iBioNet supports the local communities through the development of renewable energies and guarantees the environmental and social sustainability. Furthermore, iBioNet promotes wood-energy supply chains, assists the enterprises and the local communities. iBioNet supports the energy production togheter with the maintenance strategy into the local framework. iBioNet promotes the biomass energy to reduce the GHG emissions and as drive force for the rural economy and forest management.

iBioNet pays particular attention to the growth of a sustainable economic model, compatible with the economic and ethical development of local companies, thanks to the coherence between the core business of "renewable companies", based on principles of environmental sustainability and efficient use of resources.

iBioNet's services are:

- Planning and design of biomass supply chains, through specific analyses and the development of web applications that allow an assessment of the sustainability of the new energy plants.
- Biofuel Certification Service and emissions analyses aimed at certifying the quality of solid fuels (wood chips). In particular, iBioNet issues quality certification of solid biomass samples, according to the UNI EN ISO standard.
- iBioNet also produces and installs SensorWebEnergy (SWE) and Air Quality (AIRQ) remote monitoring systems and able to determine: the first the quantity

and quality of biomass supplied to the plants; the energy eventually produced; the overall performance of the plant, weighed against climatic and electricity consumption data; whereas the second, weather data and emission value data of CO2; CO; NO2; VOC; PM10; PM2.5 . SWE and AIRQ data are sent in real time to the web platform (www.ibionet.eu) to be processed and made immediately available to the users.

DéTAILS

ORIGINE DU BOIS
Forêt

TYPE DE BOIS
Grume

TYPE DE BOIS CONCERNé
Stemwood, woodchips and micro woodchips

IMPACT SUR L'ENVIRONNEMENT ET LA BIODIVERSITé
low environmental impact and increasing forest biodiversity

EFFET SUR LE REVENU
possibility increase income to local emprises with sale of certifical biomass

POTENTIEL D'EXPLOITATION
--

HUB
--

IMPACT éCONOMIQUE
creation of local wood-energy chains

CONNAISSANCES SPéCIFIQUES REQUISES

POTENTIEL DE MOBILISATION
--

POTENTIEL DE DURABILITé - VALEUR
--

FACILITé D'IMPLéMENTATION
--

FACILITé D'IMPLéMENTATION - ÉVALUATION
--

PRéREQUIS CLéS
Forest management and planning, forest communities, wood-energy supply chains, biofuel certification service, biomass plant emissions analyses (efficiency monitoring biomass plant)

TYPE D'éVéNEMENT Où CETTE ICPE A éTé PRéSENTéE
--

EFFET SUR L'EMPLOI
possibility of new jobs in the wood supply chains

COûTS D'IMPLéMENTATION (EURO - €)
--

good practices for sustainable forest management, good knowledge of wood supply chain, wood fuel market trend, knowledge ISO 17225 norm

PLUS DE DéTAILS

DéFI CONCERNé

--

DOMAINE

Getsion forestière, sylviculture, services écosystémiques, résilience

Industrie du bois énergie

Gestion de l'innovation, hubs digitaux, clusters, exploitation (transversale)

TYPE DE SOLUTION

--

MOTS-CLéS

--

SOLUTION DIGITALE

Non

INNOVATION

Oui

PAYS D'ORIGINE

Italie

ECHELLE D'APPLICATION

Nationale

DéBUT ET FIN D'ANNéE

--

INFORMATIONS DE CONTACT

PROPRIéTAIRE OU AUTEUR

info@ibionet.eu

RAPPORTEUR

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

http://www.ibionet.eu

SITE WEB DU PROJET

--

RéFéRENCE DU PROJET

--

RESSOURCES

--

PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood

DATE DE PUBLICATION

1 oct 2019

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY