



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 together 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 CO<sub>2</sub>; CO; NO<sub>2</sub>; VOC; PM<sub>10</sub>; PM<sub>2.5</sub> . SWE and AIRQ data are sent in real time to the web platform ([www.ibionet.eu](http://www.ibionet.eu)) to be processed and made immediately available to the users.

## DÉTAILS

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### 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 certifiical biomass

### POTENTIEL D'EXPLOITATION

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### HUB

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### IMPACT ÉCONOMIQUE

creation of local wood-energy chains

### CONNAISSANCES SPÉCIFIQUES REQUISES

### POTENTIEL DE MOBILISATION

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### POTENTIEL DE DURABILITÉ - VALEUR

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### FACILITÉ D'IMPLÉMENTATION

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### FACILITÉ D'IMPLÉMENTATION - ÉVALUATION

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### 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

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### EFFET SUR L'EMPLOI

possibility of new jobs in the wood supply chains

### COÛTS D'IMPLÉMENTATION (EURO - €)

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

**PLUS DE  
DÉTAILS**

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**DÉFI CONCERNÉ**

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**DOMAINE**

Gestion forestière, sylviculture, services  
écosystémiques, résilience  
Industrie du bois énergie  
Gestion de l'innovation, hubs digitaux, clusters,  
exploitation (transversale)

**TYPE DE SOLUTION**

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**MOTS-CLÉS**

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**SOLUTION DIGITALE**

Non

**INNOVATION**

Oui

**PAYS D'ORIGINE**

Italie

**ECHELLE D'APPLICATION**

Nationale

**DÉBUT ET FIN D'ANNÉE**

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**INFORMATIONS  
DE CONTACT**

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**PROPRIÉTAIRE OU AUTEUR**

info@ibionet.eu

**RAPPORTEUR**

**REFERENCES  
AND RESOURCES**

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**SITE WEB PRINCIPAL**

<http://www.ibionet.eu>

**SITE WEB DU PROJET**

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**RÉFÉRENCE DU PROJET**

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**RESSOURCES**

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PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A été CRééE

Rosewood

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Link to Rosewood 4.0



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



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