



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.

## DETALLES

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### ORIGEN DE LA MADERA

Bosque

### TIPO DE MADERA

Madera en rollo

### POTENCIAL DE MOVILIZACIÓN

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### POTENCIAL DE SOSTENIBILIDAD - VALOR

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### TIPO DE MADERA AFECTADA

Stemwood, woodchips and micro woodchips

### FACILIDAD DE APLICACIÓN

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### IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD

low environmental impact and increasing forest biodiversity

### FACILIDAD DE IMPLEMENTACIÓN - EVALUACIÓN

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### EFFECTO SOBRE LOS INGRESOS

possibility increase income to local emprises with sale of certifical biomass

### PREREQUISITOS CLAVE

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

### POTENCIAL DE EXPLOTACIÓN

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### TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS

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### HUB

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### EFFECTO SOBRE EL EMPLEO

possibility of new jobs in the wood supply chains

### IMPACTO ECONÓMICO

creation of local wood-energy chains

### COSTES DE IMPLEMENTACIÓN (EURO - €)

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### CONOCIMIENTOS ESPECÍFICOS NECESARIOS

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

## MÁS DETALLES

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### RETO ABORDADO

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### DOMINIO

Gestión forestal, silvicultura, servicios

ecosistémicos, resiliencia

Industria de la dendroenergía

Gestión de la innovación, hubs digitales, clusters,

explotación (transversal)

### TIPO DE SOLUCIÓN

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### PALABRAS CLAVE

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### SOLUCIÓN DIGITAL

No

### INNOVACIÓN

Si

### PAÍS DE ORIGEN

Italia

### ESCALA DE APLICACIÓN

Nacional

### AÑO DE INICIO Y FIN

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### DATOS DE CONTACTO

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### PROPIETARIO O AUTOR

info@ibionet.eu

### REPORTADOR

### REFERENCES AND RESOURCES

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### SITIO WEB PRINCIPAL

<http://www.ibionet.eu>

### SITIO WEB DEL PROYECTO

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### REFERENCIA DEL PROYECTO

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### RECURSOS

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PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood

FECHA DE MENSAJE

1 Oct 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

