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.

DETALLES

ORIGEN DE LA MADERA
Bosque

TIPO DE MADERA
Madera en rollo

TIPO DE MADERA AFECTADA
Stemwood, woodchips and micro woodchips

IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD
low environmental impact and increasing forest biodiversity

EFECTO SOBRE LOS INGRESOS
possibility increase income to local emprises with sale of certifical biomass

POTENCIAL DE EXPLOTACIóN
--

HUB
--

IMPACTO ECONóMICO
creation of local wood-energy chains

CONOCIMIENTOS ESPECíFICOS NECESARIOS

POTENCIAL DE MOVILIZACIóN
--

POTENCIAL DE SOSTENIBILIDAD - VALOR
--

FACILIDAD DE APLICACIóN
--

FACILIDAD DE IMPLEMENTACIóN - EVALUACIóN
--

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

TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS
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EFECTO SOBRE EL EMPLEO
possibility of new jobs in the wood supply chains

COSTES DE IMPLEMENTACIóN (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

MáS DETALLES

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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REPORTADOR

REFERENCES AND RESOURCES

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

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY