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.

DETTAGLI

ORIGINE DEL LEGNO
foresta

TIPO DI LEGNO
Fusto

TIPO DI LEGNO IN QUESTIONE
Stemwood, woodchips and micro woodchips

IMPATTO SULL'AMBIENTE E LA BIODIVERSITà
low environmental impact and increasing forest biodiversity

EFFETTO SUL REDDITO
possibility increase income to local emprises with sale of certifical biomass

POTENZIALE DI SFRUTTAMENTO
--

HUB
--

IMPATTO ECONOMICO
creation of local wood-energy chains

CONOSCENZE SPECIFICHE NECESSARIE

POTENZIALE DI MOBILITAZIONE
--

POTENZIALE SOSTENIBILITà - VALORE
--

FACILITà DI IMPLEMENTAZIONE
--

FACILITà DI IMPLEMENTAZIONE - VALUTAZIONE
--

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

TIPO DI EVENTO IN CUI QUESTO BPI è STATO PRESENTATO
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EFFETTO SUL LAVORO
possibility of new jobs in the wood supply chains

I COSTI DI ATTUAZIONE (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

Più DETTAGLI

SFIDA RISOLTA

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DOMINIO

La gestione forestale, selvicoltura, i servizi ecosistemici, resilienza

industria energetica del legno

gestione dell'innovazione, mozzi digitali, cluster, sfruttamento (trasversale)

TIPO DI SOLUZIONE

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PAROLE CHIAVE

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SOLUZIONE DIGITALE

No

INNOVAZIONE

Sì

PAESE D'ORIGINE

Italia

SCALA DI APPLICAZIONE

Nazionale

INIZIO E FINE ANNO

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CONTATTI

PROPRIETARIO O AUTORE

REPORTER

info@ibionet.eu

REFERENCES AND RESOURCES

SITO PRINCIPALE

http://www.ibionet.eu

SITO WEB DEL PROGETTO

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PROGETTO DI RIFERIMENTO

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RISORSE

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PROGETTO NELL'AMBITO DEL QUALE QUESTA SCHEDA è STATA CREATA

Rosewood

DATA DI INSERIMENTO

1 Ott 2019

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