



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 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.

PODROBNOSTI

IZVOR LEŠA

Gozd

TIP LEŠA

Okrogli les

POTENCIJAL ZA MOBILIZACIJO

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TRAJNOST - VREDNOST

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VRSTA OBRAVNANEGA LEŠA

Stemwood, woodchips and micro woodchips

ENOSTAVNOST IZVEDBE

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VPLIV NA OKOLJE IN BIODIVERZITETO

low environmental impact and increasing forest biodiversity

ENOSTAVNOST IZVEDBE - OCENJEVANJE

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VPLIV NA PRIHODKE

possibility increase income to local enterprises with sale of certifical biomass

KLJUČNI PREDPOGOJI

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

POTENCIJAL IZKORIŠČANJA

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VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

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VOZLIŠČE

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VPLIV NA DELOVNA MESTA

possibility of new jobs in the wood supply chains

GOSPODARSKI VPLIV

creation of local wood-energy chains

STROŠKI IZVEDBE (EURO - €)

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POTREBNO SPECIFIČNO ZNANJE

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

VEČ
PODROBNOSTI

IZZIV

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DOMENA

Gojenje gozdov, gospodarjenje z gozdovi, odpornost, --
ekosistemski storitve
Lesna biomasa

TIP REŠITVE

Inovativno upravljanje, digitalna vozlišča, grozdi

KLJUČNE BESEDE

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DIGITALNE REŠITVE

INOVACIJA

No

Da

IZVORNA DRŽAVA

Italija

OBSEG UPORABE

ZAČETNO IN KONČNO LETO

Nacionalni

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KONTAKTN
PODATKI

LASTNIK OZ. AVTOR

POROČEVALEC

info@ibionet.eu

REFERENCES
AND RESOURCES

SPLETNA STRAN

<http://www.ibionet.eu>

VIRI

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SPLETNA STRAN PROJEKTA

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REFERENCA PROJEKTA

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PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood

DATUM OBJAVE

1 Okt 2019



[Link to Rosewood 4.0](#)



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



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