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.

DETALHES

ORIGEM DA MADEIRA
Floresta

TIPO DE MADEIRA
Tronco

TIPO DE MADEIRA EM CAUSA
Stemwood, woodchips and micro woodchips

IMPACTE NO AMBIENTE E BIODIVERSIDADE
low environmental impact and increasing forest biodiversity

IMPACTE NAS RECEITAS
possibility increase income to local emprises with sale of certifical biomass

POTENCIAL DE EXPLORAçãO
--

HUB
--

IMPACTE ECONOMICO
creation of local wood-energy chains

CONHECIMENTOS ESPECIFICOS NECESSáRIOS

POTENCIAL DE MOBILIZAçãO
--

SUSTENTABILIDADE POTENCIAL - VALOR
--

FACILIDADE DE IMPLEMENTAçãO
--

FACILIDADE DE IMPLEMENTAçãO
--

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

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO
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IMPACTE NO EMPREGO
possibility of new jobs in the wood supply chains

CUSTOS DE IMPLEMENTAçãO (EURO - EUR)
--

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

MAIS DETALHES

DESAFIO ABORDADO

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DOMíNIO

Gestão florestal, silvicultura, serviços do ecosistema, resiliencia

Industria da madeira para energia

Inovações na gestão , pólos digitais, agrupamentos, exploração (transversal)

TIPO DE SOLUçãO

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PALAVRAS-CHAVE

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SOLUçãO DIGITAL

Não

INOVAçãO

Sim

PAíS DE ORIGEM

Itália

ESCALA DE APLICAçãO

Nacional

ANO DE INíCIO E FIM

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DADOS DE CONTACTO

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REPóRTER

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

http://www.ibionet.eu

WEBSITE DO PROJETO

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REFERêNCIA AO PROJETO

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RECURSOS

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PROJETO NO âMBITO DO QUAL A FOLHA DE DIVULGAçãO FOI CRIADA

Rosewood

DATA DE ENTRADA

1 Out 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY