



REGIONE SICILIANA
ASSESSORATO REGIONALE DELL'AGRICOLTURA,
DELLO SVILUPPO RURALE
E DELLA PESCA MEDITERRANEA
DIPARTIMENTO REGIONALE DELLO
SVILUPPO RURALE E TERRITORIALE



MUNICIPALITY OF
PETRALIA SOTTANA



Forest Bioenergy in the Protected Mediterranean Areas

ITALY

Transferring of past and current know-how

4.3.1 Training reports



Giugno 2019

Work package 4 - Transferring
Activity A.4.3 - Transferring of past and current know-how
D 4.3.1 Training reports
Training reports were prepared by LP, PP1 and PP2

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1 LIST OF ORGANIZED TRAININGS

After each training, update this document with latest information regarding the organized event.

Table 1 Summary of organized trainings

No.	Partner	Country	Date	Place	No. of participants
1	LP - Municipality Of Petralia Sottana (PP1), Enviland (PP2)	Italy	16-04-2018	Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo	59
2	LP - Municipality Of Petralia Sottana (PP1), Enviland (PP2)	Italy	27-06-2018	Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo	51
3	LP, Municipality Of Petralia Sottana PP1, Enviland PP2	Italy	23-10-2018	Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo	58
4	LP, Municipality Of Petralia Sottana PP1, Enviland PP2	Italy	06-12-2018	Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo	66
5	LP, Municipality Of Petralia Sottana PP1,	Italy	10-06-2019	Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of	52

	Enviland PP2			the University of Palermo	
6	LP, Municipality Of Petralia Sottana PP1, Enviland PP2	Italy	27-06-2019	“Sala Lanza”, Botanical Garden, University of Palermo	46

2 TRAINING REPORTS

2.1 Training no. 1

2.1.1 Technical report

Pilot Area	<i>Regional Park of Madonie</i>
Event title	<i>Bioenergy and Protected Areas: a possible union?</i>
Involved partner	<i>LP Regional Department of Rural and Territorial Development, Sicilian region - PP1 Municipality Of Petralia Sottana - PP2 Enviland</i>
Responsible partners	<i>LP Regional Department of Rural and Territorial Development, Sicilian region</i>
Location	Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo
Date	16-04-2018

No. of participants	59
Target groups	<i>Technicians of local administrations, regional and local administrators, private technicians of the sector, students of the Department of Agricultural, Food and Forest Sciences of University of Palermo</i>
Trainers/speakers	7 speakers: <ul style="list-style-type: none"> - Prof. Federico G. Maetzke, Department SAAF, University of Palermo - Dott. Massimo Pizzuto Antinoro, LP ForBioEnergy Project, Regional Department of Rural and Territorial Development, Sicilian region - Dott. Donato S. La Mela Veca, Department SAAF, University of Palermo - Dott. For. Paolo Contrino, Expert technician in the forest sector - Dott. Antonio Casula, Regional Forest Agency for the Development of the Territory and the Environment of Sardinia (FoReSTAS) - Ing. Salvatore D'Urso, Energy Department, Sicilian region - Dott. Alessandro Ficile, Agency of local development of Madonie SOSVIMA
Training materials	PPT presentations: <ul style="list-style-type: none"> - Energy enhancement: biomasses and short supply chains - Objectives, deliverables and expected results of the ForBioEnergy project - The results of the Interreg MED ProForBioMed project - The forestry and socio-economic context of the Regional Natural Park of Madonie - The use of forest biomasses for bioenergy production in the

	<p>Sardinia Region</p> <ul style="list-style-type: none"> - The Regional Energy Plan: a focus on the biomass sector - The energy strategy within National Strategy for Internal Areas <p>2. Dissemination material:</p> <ul style="list-style-type: none"> - ForBioEnergy brochure - ForBioEnergy Roll-up - Report of the Interreg Med ProForBioMed project: “Improving of the energy efficiency and promotion of renewable energy sources” - Report of the ProForBioMed project - Report of the Life project ResilForMed “Climate change resilience of Mediterranean forests”
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Report on training	<p>(describe in few sentences what was main aim and goals of the training, who were participants, shortly describe the programme and the training process)</p> <p>The main goal of the 1st training course, entitled “Bioenergy and Protected Areas: a Possible Union?”, was to transfer past and current knowledge and experience regarding the potentiality of bioenergy production with forest biomasses within protected areas to experts, professionals and local decision-makers and stakeholders. The participation of expert trainers has allowed an effective discussion between professionals, sector operators and other stakeholders, in order to improve the skills and knowledge of the participants. The meeting, which lasted about five hours, was attended by officials and technicians of local and regional administrations, public administrators, technicians of private companies operating in the forest sector, agronomists and forestry professionals, as well as students of the Department of Agricultural, Food and Forest Sciences of the University of Palermo. Seven oral reports were presented during the Training course. The first report was dedicated to the presentation of the ForBioEnergy project. Then, the results obtained by the Interreg MED ProForBioMed project were showed and shared, especially addressed to boost the use of the residual forest biomass in the Mediterranean basin. The effective chance to develop such sector and the implementation methods were also showed. The example of good practices continued with the report by the Sardinia Region, which has recognized experience in the use of biomass for the production of bioenergy. The other reports allowed the participants to have a lot of information about the current energy situation of the Sicily Region. The report by the Energy Department provided information about the Regional Energy Plan, including the public announcements that the administration is preparing to issue</p>
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	<p>for the development of the sector. One of the speakers presented the forest and socio-economic context of the Parco delle Madonie (the pilot area of the project). The report on the energy strategy and the interventions planned for the use of biomass for energy purposes, which the SNAI (National Strategy for Internal Areas) has envisaged for the Madonie Park, was very interesting as the area in question falls within the pilot area of the project. For the participants, therefore, the training course was an opportunity to inform and gain knowledge about the biomass sector, as well as a moment of discussion and debate with different points of view. Furthermore, the participation of some representatives of regional and local authorities has allowed a moment of confrontation between the public officials responsible for the development of the biomass sector and the professionals and technicians involved in the same sector.</p>
Feedback from participants	<p>Describe discussion and opinion of the participants. Was there any active participation? How did the participants evaluate the training? What are lessons learnt?</p> <p>The final moment of the training day included a wide debate among the participants, which had the opportunity to deepen the topic of the training course and to learn about the new opportunities that the biomass sector may offer. The participation was very active as demonstrated by the numerous questions posed to the speakers by those present. In particular, the questions concerned:</p> <ul style="list-style-type: none"> -the current use of woody biomass in the Sicilian region; -the legislative and administrative restrictions concerning the use of biomass within protected areas; -the funding and development opportunities deriving from the use of biomass (with particular reference to the RDP, Rural Development Programme). <p>The answers were clear and satisfactory. For instance, regarding the aspects related to regional funding, the Director of the Energy Department, Dr. D'Urso, showed the key points of the announcements to be published soon. D'Urso himself has also stated that "Until today we have been accustomed to know the forest simply as an assisted sector; the goal is to completely reverse the situation, as it was done in the Sicilian wine sector which, from being in the past a totally assisted sector, it has now become a national excellence". At the end of the debate, the representatives of SNAI Madonie and the Italian partners of the Project (LP, Municipality of Petralia Sottana, Enviland) agreed to collaborate and work in synergy, both in the planning phase and in the sharing and dissemination of results.</p> <p>The participants expressed satisfaction and positively evaluated the activities of the training course, they got new information and different points of view about forest issues and the use of biomasses. They have particularly appreciated the project for its ecological</p>

imprinting, given that the main objective is to find a good combination between the use of forest biomass for energy purposes and the protection of the natural environment. In addition to the specific technical and experiences made in areas and contexts similar to those in Sicily, among the other lessons learned by the participants, one of the most important is that the collaboration between public and private sectors is undoubtedly possible and necessary for the sustainable development of the biomass sector in Sicily.

2.1.2 Attachments

EVENT AGENDA (invitation, program)

Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M €
Budget
del progetto

1,74 M €
FESR / IPA

30 Mesi
Durata
del progetto

**WP 4 - Transferring
Attività 4.3 – Training Course**

1° Corso di formazione
**Bioenergia e Aree protette, un
connubio possibile!?**

Lunedì 16 aprile 2018

Aula Magna Ballatore
Dipartimento Scienze Agrarie e
Forestali - Università di Palermo
Viale delle Scienze, Edificio 4
Palermo

PROGRAMMA:

09:00 – Registrazione dei partecipanti
09:30: Apertura del Corso formativo
Prof. Stefano Colazza, Direttore Dipartimento SAAF, UNIPA
Dott. Mario Candore, Dirigente Generale Dipartimento Sviluppo Rurale e
Territoriale, Regione Siciliana
Dott.ssa Paola Armato, Presidente Ordine degli Agronomi e Forestali di Palermo

09:45 - Introduzione
Prof. Federico G. Maetzke, Dipartimento SAAF, UNIPA

Relazioni:

10:00 - Obiettivi, attività e risultati attesi del progetto ForBioEnergy
Dott. Massimo Pizzuto Antinoro, Coordinatore del progetto ForBioEnergy

10:20 - I risultati del progetto Interreg MED ProForBioMed
Dott. Donato S. La Mela Voca, Dipartimento SAAF, UNIPA

10:40 - Il contesto forestale e socio-economico del Parco delle Madonie
Dott. Paolo Contrino

11:00 - Coffee break

11:30 – Uso delle biomasse per la produzione di bioenergia nella Regione Sardegna.
Dott. Antonio Casula, Agenzia Forestale Regionale per lo Sviluppo del Territorio
e dell'Ambiente della Sardegna (FoReSTAS)

11:50 - Piano energetico regionale: focus sulle biomasse
Ing. Salvatore D'Urso, Dipartimento Energia, Regione Siciliana

12:10 - La strategia energetica nell'Area Interna delle Madonie
Dott. Alessandro Ficile, Agenzia di Sviluppo Locale delle Madonie SOSVIMA

12:30 - Discussione con i partecipanti

13:15 Chiusura del corso

Partner del progetto

www.forbioenergy.interreg-med.eu

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Progetto co-finanziato dal Fondo Europeo per lo Sviluppo Regionale
Programme cofinanced by the European Regional Development Fund

OTHERS (media reports: newspapers, web page)

Facebook invitation:

Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M € Budget del progetto

1,74 M € FESR / FSA

30 Mesi Durata del progetto

WP 4 - Transferring Attività 4.3 - Training Course

1° Corso di formazione: Bioenergia e Aree protette, un connubio possibile?

Lunedì 16 aprile 2018

Aula Magna Ballatore Dipartimento Scienze Agrarie e Forestali - Università di Palermo Viale della Scienza, Edificio 4 Palermo

PROGRAMMA

09.00 - Registrazione dei partecipanti
09.30 - Apertura del Corso formativo
Prof. Giuseppe Calazza, Direttore Dipartimento SAAP, UNIPA
Dott. Mario Condino, Dirigente Generale Dipartimento Sviluppo Rurale e Territoriale, Regione Siciliana
Dott.ssa Paola Armato, Presidente Ordine degli Agronomi e Forestali di Palermo

09.45 - Introduzione
Prof. Federico G. Maetzel, Dipartimento SAAP, UNIPA

Relazioni:
10.00 - Obiettivi, attività e risultati attesi del progetto ForBioEnergy
Dott. Massimo Pizzuto Andorno, Coordinatore del progetto ForBioEnergy
10.20 - I risultati del progetto Interreg MED ProForBioMed
Dott. Donato S. La Mela Veca, Dipartimento SAAP, UNIPA
10.40 - Il contesto forestale e socio-economico del Parco delle Madonie
Dott. Paolo Contrino
11.00 - Coffee break
11.30 - Uso delle biomasse per la produzione di bioenergia nella Regione Sardegna
Dott. Antonio Casula, Agenzia Forestale Regionale per lo Sviluppo del Territorio e dell'Ambiente della Sardegna (FolTESTAS)
11.50 - Piano energetico regionale: focus sulle biomasse
Ing. Salvatore D'Urso, Dipartimento Energia, Regione Siciliana
12.10 - La strategia energetica nell'Area Interna delle Madonie
Dott. Alessandro Picile, Agenzia di Sviluppo Locale delle Madonie SCSVMA
12.30 - Discussione con i partecipanti
13.15 - Chiusura del corso

Partner del progetto

Ministero dell'Agricoltura, delle Politiche Rurali e Foreste
Regione Siciliana
ENEA
IRDA
amurfor
Cámara
Valeriy

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Interreg Mediterranean

ForBioEnergy

Progetto cofinanziato dal Fondo Europeo per lo Sviluppo Regionale
Programme cofinanced by the European Regional Development Fund

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Forbioenergy

"Mi piace" aggiunto alla Pagina · 11 aprile ·

Lunedì 16 aprile, presso l'Aula Magna Ballatore del Dipartimento di Scienze Agrarie e Forestali dell'Università di Palermo, nell'ambito delle attività di transferring del progetto Forbioenergy si terrà il Training Course "Bioenergia e Aree protette, un connubio possibile?".

L'evento inizierà alle 9.30. Tutti i soggetti interessati sono invitati a partecipare.

<https://forbioenergy.interreg-med.eu/>

Interreg MED Programme Cámara Valencia Amurfor

Mi piace Commenta Condividi

6

Meno recenti

Condivisioni: 4

Commenti: 2



Leonardo Marabella complimenti Paolo Contrino. Spendiamoli tutti sti soldi del budget, che il territorio ne ha bisogno. il tema trattato è veramente interessante,



Scrivi un commento...

Pianificazione e gestione forestale in Sicilia - Forestry in Sicily
@selviculturainsicilia

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Eventi

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Pianificazione e gestione forestale in Sicilia - Forestry in Sicily ha aggiunto un evento.

11 aprile ·

1° Corso Formativo nell'ambito del progetto INTERREG MED "ForBioEnergy"



APR
16

Aree Protette e Bioenergia, un conn...
Lun 9:00 · Aula Magna Ballatore - Dipartiment...
Gaetano, Donato e 8 amici

✓ Parteciperò ▾

👍 Mi piace

💬 Commenta

3 TRAINING REPORTS

3.1 Training no. 2

3.1.1 Technical report

Pilot Area	<i>Madonie Regional Park</i>
Event title	<i>"Assessment of the risks and benefits deriving from the extraction of biomass in protected areas"</i>
Involved partner	<i>LP Department of Rural Development and Territorial Region of Sicily - PP1 Municipality of Petralia Sottana - PP2 Enviland</i>
Responsible partners	<i>LP Department of Rural and Territorial Development, Sicilian Region</i>
Location	<i>Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo</i>
Date	<i>27-06-2018</i>

No. of participants	<i>51</i>
Target groups	<i>Operators of local administrations, regional and local administrators, private operators of the forest sector, students of the Department of Agricultural, Food and Forest Sciences of the University of Palermo, other operators of the category.</i>
Trainers/speakers	7 speakers: <ul style="list-style-type: none"> - Dr. Claudia Rubino, Enviland srl - Prof. Tommaso la Mantia, SAAF Department, University of Palermo - Dr. Donato S. La Mela Veca, SAAF Department, University of Palermo - Dr. Giuseppe Baiamonte, Department of Sciences and Technologies (DST), University of Sannio - Dr. Federico Marrone, STEBICEF Department, University of Palermo - Dr. Sebastiano Sferlazza, SAAF Department, University of Palermo - Dr. Salvatore Tinervia, SAAF Department, University of Palermo
Training materials	PPT presentations: <ul style="list-style-type: none"> - Main objectives of the Deliverable 3.5 of the ForBioEnergy project ForBioEnergy Deliverable Project 3.5 "Assessment of the impact of the increase in the use of biomass, in short-medium- and long term in protected areas" - management of forest resources in protected areas: impacts and/or benefits for biodiversity conservation - methodology for the assessment of the impacts of forestry operations for the extraction of forest biomass in protected

	<p>areas: the case study of the Madonie Regional Park</p> <ul style="list-style-type: none"> - assessment of the impacts on biotic components: the plant communities - assessment of the impacts on biotic components: the animal communities - assessment of the impacts on the abiotic components - assessment of the impacts on the social, economic, and demographic aspects and ecosystem services. <p>2. Dissemination material:</p> <ul style="list-style-type: none"> - ForBioEnergy brochure - ForBioEnergy Roll-up - Interreg Med ProForBioMed project report: <i>"Improving of the energy efficiency and promotion of renewable energy sources"</i> - Report of Life ResilForMed project <i>"Resilience to Climate change in Mediterranean forests"</i>
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Report on training	<p><i>(describe in few sentences what was main aim and goals of the training, who were participants, shortly describe the programme and the training process)</i></p> <p>The second training course aimed to analyze and discuss about the risks and benefits deriving from the extraction of forest biomass in protected areas. During the activity, the impacts on the biotic components (animals and plants), as well as on the abiotic ones, were discussed. The possible impacts on ecosystem services and on social, economic and demographic components were also evaluated. The course lasted for about six hours and the speakers were university professors, researchers and technicians. The training course was attended by technicians and officials from local and regional administrations, administrators of public organizations, technicians of private companies operating in the forest sector, different professional categories, agronomists and forestry professionals, students of the Department of Agricultural, Food and Forest Sciences of the University of Palermo.</p> <p>The seven speakers were:</p> <ul style="list-style-type: none"> -Dr. Claudia Rubino of Enviland Srl (PP2 of ForBioEnergy), showed the most important objectives of the Deliverable 3.5, aimed to define a methodology for the assessment of risks and benefits deriving from the extraction of biomass on environmental components (biotic and abiotic) and socio-economic aspects. -Prof. Tommaso La Mantia talked about the management of forest resources in protected areas, with particular reference to <i>"impacts and/or benefits for the conservation of biodiversity in Sicily"</i>. From
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his analysis, it has emerged that *"the increase of the forest areas in Sicily, occurred in the last decades, has not determined a significant increase of the present biodiversity"* and that the current forest management, uniform and based on standard addresses (common prescriptions), does not guarantee the quality of forest habitats. Hence, it is necessary to implement a forest management plan on a local scale and make sound choices that are consistent with the needs and the peculiarity of local forest ecosystems. Finally, it should be noted that, within protected areas, too restrictive protection measures against forests may strongly hinder the chance to enhance their biodiversity and the overall conservation status. This is typically the case for afforested areas and woodlands subject to historical exploitation.

-Dr. Donato La Mela Veca talked about the energy use of the residual forest biomass obtainable from the sustainable management of local forests. This is possible only in the context of clear procedures of forest planning. For that purpose, it is necessary to draw up and implement a Forest Management Plan, including the chronosequence of necessary forest interventions

For the assessment of the impacts, the methodology used for the Deliverable A3.5 *"Threats and benefits of the biomass use in protected areas"* of the ForBioEnergy project was presented. The evaluation was carried out for the forest habitats present in the Natura 2000 sites, falling within the territory of the Madonie Natural Park, pilot area of the project in Sicily.

The two subsequent speeches concerned the assessment of the impacts on biotic components (plants and animals) deriving from the extraction of biomass in protected areas.

-Dr. Baiamonte discussed about the impacts on the plant communities and explained the working methodology that includes: the identification of indicators, actions and threats, as well as any corrections to be taken to eliminate the impacts deriving from the extraction of biomass on the plant communities.

- Dr. Marrone talked about the impacts on the animal communities and explained the methodology followed to evaluate the risks and benefits deriving from the production of forest biomass on the animal communities present in protected areas. It is necessary to implement a forest management planning that takes into account the forestry practices, their potential threats to the animal communities of different forest habitats and the identification of the most suitable indicators to assess the potential impacts in the short-, medium- and long term.

-Dr. Sferlazza talked about the assessment of the impacts deriving

	<p>from the extraction of biomass in the protected areas on the abiotic components. The indicators to be monitored include: deadwood, litter, soil organic carbon (SOC), erosion and fire risk.</p> <p>-Dr. Tinervia presented the methodology required to evaluate the possible impacts on social, economic, and demographic components, as well as on ecosystem services. The analysis shows that the development of a forest-wood-energy supply chain could have positive impacts both on the economic context (creation of new business, job opportunities and development) and on the social context (growth and well-being of the local community). The liveliness of the final debate and the numerous questions addressed to the speakers by the community of technicians, administrators and representatives of the different categories present demonstrate the considerable interest in the topics dealt with.</p>
Feedback from participants	<p><i>describe discussion and opinion of the participants. Was there any active participation? How did the participants evaluate the training? What are lessons learnt?</i></p> <p>At the end of the training course, the participants evaluated the training day through a questionnaire consisting of 4 questions, expressing a degree of satisfaction going from 1 (not at all satisfied) to 5 (very satisfied). 31 participants answered to the questionnaire.</p> <p>The questions and the related evaluation results are shown below.</p> <p>Question 1: Are the objectives of the training considered appropriate? 45% of the participants consider themselves "very satisfied", 32% are "quite satisfied", 20% are "satisfied" and only 3% are "not at all satisfied".</p> <p>Question 2: Has the organization of the training been finest? 49% of the participants consider themselves "very satisfied", 32% are "quite satisfied", 16% are "satisfied" and only 3% of the participants are "not at all satisfied".</p> <p>Question 3: Will you use the knowledge acquired in your professional or training activities? 61% of the participants believe that they will use a lot of the knowledge acquired in the professional and/or training activities, 36% will use it enough, while 3% of the participants will use it little.</p> <p>Question 4: Are there any important topics that could have been treated and are not included in the training? The suggested topics are: Case studies of public and/or private managed forests and related effects; Management of multidisciplinary assessment processes; Description of reference frameworks for evaluations.</p>

The training day ended with a long and intense debate among the participants and the speakers. Several times the lack of adoption of forest management plans was highlighted, suggesting that they are fundamental not only for the protection and conservation of forest biodiversity, but also for the possible utilization forest biomass, provided they are obviously sustainable. The high scientific and professional profile of the speakers provided the participants with a high level of training, giving them a complete picture of the possible impacts that could derive from the extraction of biomass in protected areas, along with the potential opportunities for socio-economic development, and for improving the quality of forest areas.

3.1.2 Attachments

EVENT AGENDA (invitation, program)

Bioenergia Forestale nelle Aree Protette

2,05 M €
Budget
del progetto

1,74 M €
FESR / IPA

WP4 - Transferring
Attività 4.3 – Training Course

2° Corso di formazione
"Valutazione dei rischi e dei
benefici derivanti
dall'estrazione della biomassa
nelle aree protette"

Mercoledì 27 Giugno 2018
Aula A
Dipartimento Scienze Agrarie
Alimentari e Forestali
Università di Palermo
Viale delle Scienze, Edificio 4

09:00 Registrazione dei partecipanti

09:30 Interventi introduttivi/Apertura del
Massimo Pizzuto, Antinoro, Dipartimento Sviluppo
Responsabile del progetto ForBioEnergy
Claudia Rubino, Enviland srl - Partner del progetto
Paola Armato, Presidente Ordine dei Dottori Agronomi

09:45 Gestione delle risorse forestali nelle
la conservazione della biodiversità.
Tommaso La Mantia, Dipartimento SA

10:15 Metodologia per la valutazione deg
per la raccolta della biomassa forest
del Parco delle Madonie.
Donato S. La Mela Veca, Dipartimento

10:45 Valutazione degli impatti sulle comp
Giuseppe Baiamonte, Dipartimento di
degli Studi del Sannio

11:15 Coffee break

11:45 Valutazione degli impatti sulle comp
Federico Marrone, Dipartimento STEB

12:15 Valutazione degli impatti sulla comp
Sebastiano Sferlazza, Dipartimento SA

12:45 Valutazione degli impatti sulle comp
demografiche e sui servizi ecosisten
Salvatore Tinervia, Dipartimento SAAF

EVALUATION QUESTIONNAIRE



Forest Bioenergy in the Protected Mediterranean Areas

Palermo 27/06/2018

FAoltà di Agraria Università degli Studi di Palermo

2° Corso di formazione "Valutazione dei rischi e dei benefici derivanti dall'estrazione della biomassa nelle aree protette"

QUESTIONARIO DI VALUTAZIONE

Workpackage 4 - Transferring

Activity A.4.3. - Transferring of past and current know-how

Project partners



Scala di valutazione

- 1- PER NIENTE
- 2- POCO
- 3- SODDISFATTO
- 4- ABBASTANZA
- 5- MOLTO

QUESTIONARIO DI VALUTAZIONE

1) Gli obiettivi formativi del training sono ritenuti appropriati?	1	2	3	4	5
2) L'organizzazione del training è stata ottimale?	1	2	3	4	5
3) Userete la conoscenza acquisita nelle vostre attività professionali o formative?	1	2	3	4	5
4) Ci sono argomenti importanti che avrebbero potuto essere trattati e non sono inclusi nella formazione?	<ul style="list-style-type: none"> • • • 				



Project partners

OTHERS (media reports: newspapers, web page)

Facebook invitation:

Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M €
Budget del progetto

1,74 M €
FESR / IPA

30 Mesi
Durata del progetto

WP4 - Transferring
Attività 4.3 – Training Course

2° Corso di formazione
"Valutazione dei rischi e dei benefici derivanti dall'estrazione della biomassa nelle aree protette"

Mercoledì 27 Giugno 2018
Aula A
Dipartimento Scienze Agrarie, Alimentari e Forestali
Università di Palermo
Viale delle Scienze, Edificio 4

09:00 Registrazione dei partecipanti
09:30 Interventi introduttivi/Apertura del corso formativo
Massimo Pizzuto/Annapa, Dipartimento Sviluppo Rurale e Territoriale, Regione Siciliana
Responsabile del progetto ForBioEnergy
Claudia Rubino, Univasil srl - Partner del progetto ForBioEnergy
Paolo Amato, Presidente Ordine dei Dottori Agronomi e Forestali di Palermo
09:45 Gestione delle risorse forestali nelle aree protette: impatti e/o benefici per la conservazione della biodiversità.
Tommaso La Mantia, Dipartimento SAAF - UNIPA
10:15 Metodologia per la valutazione degli impatti delle operazioni selvicolturali per la raccolta della biomassa forestale nelle aree protette: il caso studio del Parco delle Madonie.
Donato S. La Mela Veca, Dipartimento SAAF - UNIPA
10:45 Valutazione degli impatti sulle componenti biotiche: le comunità vegetali.
Giuseppe Balimonte, Dipartimento di Scienze e Tecnologie (DST) - Università degli Studi del Sannio
11:15 Coffee break
11:45 Valutazione degli impatti sulle componenti biotiche: le comunità animali.
Federico Marrone, Dipartimento STEBICEF - UNIPA
12:15 Valutazione degli impatti sulla componente abiotica.
Sebastiano Sferlazza, Dipartimento SAAF - UNIPA
12:45 Valutazione degli impatti sulle componenti sociali, economiche, demografiche e sui servizi ecosistemici.
Salvatore Tinivola, Dipartimento SAAF - UNIPA
13:15 Discussione con i partecipanti e chiusura del corso.



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Piace a 20 amici

Ultime news

- 18:06 Terra 4.0 Filaga, sfida a colpi di tecnologia tra i Monti Sicani
- 12:03 Festa Santa Rosalia: Palermo celebra la Santa per il 394esimo anno
- 11:32 Terre di cinema a Catania. 15 giorni dedicati alla

4 TRAINING REPORTS

4.1 Training no. 3

4.1.1 Technical report

Pilot Area	Madonie Regional Park
Event title	<i>"Actions and strategies to remove/reduce the effects of barriers that hinder/prevent the setting up of forest-wood-energy chains in protected areas"</i>
Involved partner	LP Department of Rural Development and Territorial Region of Sicily - PP1 Municipality of Petralia Sottana - PP2 Enviland
Responsible partners	LP Department of Rural and Territorial Development, Sicilian Region
Location	Aula Magna of the Department of Agricultural, Food and Forestry Sciences (SAAF) of the University of Palermo
Date	28-10-2018

No. of participants	58
Target groups	<i>Operators of local administrations, regional and local administrators, private operators of the sector, students of the Faculty of Agriculture of Palermo, other operators of the category.</i>
Trainers/speakers	5 speakers: <ul style="list-style-type: none"> - Dr. Peppuccio Bonomo, Madonie Regional Natural Park - Dr. Angelo Merlino, Regional Federation of Agronomists and Forestry Doctors of Sicily - Dr. Claudia Rubino, Enviland S.r.l. - Dr. Emilio Badalamenti SAAF Department - Dr. Antonio Ventre, Union of Municipalities "Valdarno and Valdisieve (FI)
Training materials	<p>PPT presentations:</p> <ul style="list-style-type: none"> - Current authorization and regulatory framework for forest interventions in the Madonie Natural Park - Opportunities and limits of the forestry measures of the Rural Development Plan (RDP) 2014-2020 for Sicily - <i>Possible actions and strategies for the removal of barriers that prevent/hinder the use of forest biomass in the Madonie Natural Park (results of the ForBioEnergy project working group)</i> - The forest management in Tuscany between limits and opportunities. Examples of good practices in protected areas <p>2. Dissemination material:</p> <ul style="list-style-type: none"> - ForBioEnergy brochure - ForBioEnergy Roll-up

- Interreg Med Proforbiomed project report "Improving of the energy efficiency and promotion of renewable energy sources"
- Report Life ResilForMed, Resilience to the change of the Mediterranean Forests

(describe in few sentences what was main aim and goals of the training, who were participants, shortly describe the programme and the training process)

The third training course aimed at analyzing and discussing the results of the assessment referred to *"actions and strategies to remove/reduce the effects of the barriers that hinder/prevent the setting up of wood-energy forest chains in protected areas"*. The training course lasted about six hours, attended by technicians and officials from local and regional administrations, administrators of public organizations, technicians from private companies operating in the forest sector, various professional categories, agronomists and forestry experts, students from the Department of Agriculture, Food and Forest Sciences of the University of Palermo. The speakers were five, in detail:

Peppuccio Bonomo, the Director of the Madonie Regional Natural Park, talked about the *"Current authorization and regulatory framework for forest interventions in the Madonie Natural Park"*. Some tables concerning the forestry aspects of the Madonie Park were showed. Among the most relevant data the following: the forest area index, which shows that 38% of the Park is covered by woodlands, mainly represented by oak species, such as cork oak, holm oak, ecc. Bonomo pointed out that in the Madonie Park there could be the conditions necessary for the setting up and development of an efficient forest-wood-energy supply chain. However, there is the need to implement the Forest Management Plan for proper regulation, as provided for the guidelines for the drafting of forest management plans. The current administrative practice, based on regional regulations, has authorized only few forest operations aimed at cutting and timber harvesting from the Park's woods. The presentation continued with slides dedicated to the current regional rules and regulations governing forestry sector and coal production activities in the Regional Parks of Sicily Region. To date, by an agreement with the University of Palermo, studies and preparatory cartographic works to define the *"Forest Plan of the Madonie Park"*, have been carried.

Dr. Merlino, as delegate of the Regional Federation of Agronomists

Report on training

and Forestry Doctors of Sicily, has informed the participants about the “*Opportunities and limits of the forestry measures of the Rural Development Plan (RDP) 2014-2020 for Sicily*”. The RDP 2014-2020 for Sicily represents the instrument for financing and implementing the European Agricultural Fund for Rural Development (EAFRD). As part of the EAFRD budget planning to the Sicily Region, resources amounted to € 2,212,747,000, with an increase of over € 27 million compared to the former allocation within the 2007-2013 RDP. Such data makes Sicily the region of Italy to which the highest budget has been allocated at national level. The report is continued showing in detail the measures concerning the Sicilian forest heritage. They are the following: the Measure 8, concerning the investments in the development of forest areas and the improvement of the profitability of forests, and the Measure 16 concerning cooperation. The Measure 8 supports reforestation and afforestation activities, interventions for the prevention of fire damage, as well as those caused by natural disasters and/or catastrophic events, the restoration of forests damaged by wildfires, by natural disasters and/or catastrophic events, investments aimed at increasing the resilience and environmental value of forest ecosystems, for modernizing and improving the efficiency of production facilities. It also provide funding for supporting forestry technologies and the transformation, mobilization and marketing of forest products. The Measure 16.8 financially supports the drafting of Forest Management Plans, thus helping to fill the critical lack of forest planning.

The Dr. Emilio Badalamenti (SAAF Department, University of Palermo), and Dr. Claudia Rubino (Enviland S.r.L, Pp2 Forbioenergy), showed the results of the working group carried out within the framework of WP3, Activity 3.6, Deliverable 3.6.1, which allowed the elaboration of an “*Action Plan for a new regulatory framework and authorization process in protected areas*”. Their talk was focused on the possible actions and strategies needed for the removal of the main barriers that hinder the use of forest biomass in the Madonie Natural Park. The drafting of the Action Plan was preceded by the development of a SWOT analysis, which highlighted the strengths and weaknesses, opportunities and threats related to the use of forest biomass within the the protected area of Madonie Natural Park. Subsequently, the talk was focuses on the objectives of the ForBioEnergy Project in the Italian pilot area. The general objective is the “*Use of the wood residual biomass deriving from the sustainable forest management in the Madonie natural park for energy purposes*”. Then, other six specific objectives were identified, concerning the enhancement of the planning of forest resources, the support for the establishment of forest enterprises, promoting the

cooperation between private and public actors, the increase the structural complexity, the resilience and the functioning of forest ecosystems in the protected areas, the increase of the skills and technical capacity of forestry companies/enterprises operating in the area, the increase of the awareness of the local community on the economic and environmental benefits that can derive from the sustainable management of forest areas in protected areas, and, finally, the fostering of the use of local wood, including certified wood products. The talk continued with the identification of the main barriers that hinder the use of forest biomass for energy purposes in the Madonie Natural Park. The barriers may be administrative (the lack of forest planning tools), technical (limits and obstacles to the development of the forest sector), economic (forestry activity with low or null profitability) and social (hesitancy in the exploitation of the biomass in protected areas and unwillingness of local actors to the cooperation and association). For each barrier, a number of specific barriers were identified, along with the possible way to tackle them and the possible solutions to overcome the barriers and specific barriers.

The Dr. Antonio Ventre, as delegate of the “Union of Municipalities Valdarno and Valdisieve (FI)”, talked about “*the forest management in Tuscany between limits and opportunities. Examples of good practices in protected areas*”. The speaker firstly showed the forest framework for Tuscany, which has a forest area index of 50.1%, corresponding to 1,151,539 hectares. Then, he talked about the use of timber derived from planned cuttings, how many human resources are used in this activity, and what are the emerging issues. Subsequently, he showed an example of forest management in a protected area, directly coordinated by the public body of the Municipalities Valdarno and Valdisieve (FI). The activity of cutting allows to obtain about 40,000 tons per year of woody biomass, from the utilization of 430 hectares of forest area. The wood obtained flows into the wood-energy chains (as firewood or wood chips) or it is used as structural material, for handicraft, for poles, etc. The Union takes care of the training activities for the forest operators, and to draw on European, national and regional funds to improve the infrastructures and machinery needed for the implementation of the forest-wood-energy supply chain. Within this scope, several biomass plants have been established for the production of thermal energy or combined heat and power (cogeneration power plants) of small or medium size. Data from such plants show that the municipalities involved in the supply chain, which use biomass for the production of energy, have had a saving of over 75% on fuel costs compared to

	diesel fuel and LPG (liquefied petroleum gas).
Feedback from participants	<p><i>describe discussion and opinion of the participants. Was there any active participation? How did the participants evaluate the training? What are lessons learnt?</i></p> <p>At the end of the training activities, the participants evaluated the training day through a questionnaire consisting of 4 questions, expressing a degree of satisfaction going from 1 to 5, with 1 meaning "not at all satisfied" and 5 "very satisfied". 30 participants answered to the questionnaire.</p> <p>The questions and the related evaluation results are shown below.</p> <p>Question 1: Are the objectives of the training considered appropriate? 50% of the participants consider themselves "very satisfied", 43% consider themselves "quite satisfied", 7% are "satisfied"</p> <p>Question 2: Has the organization of the training been finest? 53% of the participants consider themselves "very satisfied", 43% consider themselves "quite satisfied", 4 % consider themselves "satisfied"</p> <p>Question N.3: Will you use the knowledge acquired in your professional or training activities? 56% of the participants believe that they will use a lot of the knowledge acquired in the professional and/or training activities, 40% will use it enough, while 4% of the participants will use it little.</p> <p>Question N.4: Are there any important topics that could have been treated and are not included in the training? None of the participants answered this question</p>

4.1.2 Attachments

EVENT AGENDA (invitation, program)

Bioenergia Forestale nelle Aree Protette del Mediterraneo



2,05 M €
Budget del progetto



1,74 M €
FESR / IPA



30 Mesi
Durata del progetto



WP4 - Transferring
Attività 4.3 - Training Course

3° Corso di formazione
"Azioni e strategie per rimuovere/ridurre gli effetti delle barriere che ostacolano/impediscono la realizzazione di filiere bosco-legno-energia nelle aree protette"

Martedì 23 Ottobre 2018
Aula Magna
Dipartimento Scienze Agrarie Alimentari e Forestali
Università di Palermo
Viale delle Scienze, Edificio 4

Al partecipanti iscritti agli Ordini dei Dottori Agronomi e Forestali saranno riconosciuti Crediti Formativi Professionali

09:00 - Registrazione dei partecipanti

09:30 - Interventi introduttivi/Apertura del corso formativo
Massimo Pizzuto Antinoro, Dipartimento Sviluppo Rurale e Territoriale, Regione Siciliana - Responsabile del progetto ForBioEnergy
Stefano Colazza, Direttore Dipartimento SAAF, UNIPA
Paolo Armato, Presidente Ordine dei Dottori Agronomi e Forestali di Palermo

09:50 - Attuale processo di autorizzazione e regolamentazione degli interventi forestali nel Parco delle Madonie
Peppuccio Bonomo, Ente Parco delle Madonie

10:15 - Opportunità e limiti delle misure forestali del PSR Sicilia 2014-2020
Angelo Merlino, Federazione Regionale Ordini Dottori Agronomi e Forestali della Sicilia

10:45 - Possibili azioni e strategie per la rimozione delle barriere che impediscono/ostacolano l'uso della biomassa forestale nel Parco delle Madonie (risultati del gruppo di lavoro del progetto ForBioEnergy)
Claudia Rubina, Enviland S.r.l.
Emilio Badalamenti, Dipartimento SAAF, UNIPA

11:15 - Coffee break

11:45 - La gestione forestale in Toscana tra limiti e opportunità. Esempi di buone pratiche nelle aree protette
Antonio Ventre, Unione di Comuni Valdarno e Valdisieve (FI)

12:30 - Discussione con i partecipanti e chiusura del corso

Partner del progetto








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ForBioEnergy

Progetto co-finanziato dal Fondo Europeo per lo Sviluppo Regionale
Programme cofinanced by the European Regional Development Fund

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EVALUATION QUESTIONNAIRE



Forest Bioenergy in the Protected Mediterranean Areas

WORKPACKAGE 4-TRASFERRING

ACTIVITY A.4.3 - TRASFERRING OF PAST AND CURRENT KNOW-HOW

3° Corso di formazione "Azioni e strategie per rimuovere/ridurre gli effetti delle barriere che ostacolano/impediscono la realizzazione di filiere bosco legno- energia nelle aree protette"

PALERMO 23/10/2018

Dipartimento Scienze Agrarie, Alimentari e Forestali, Università di Palermo

QUESTIONARIO DI VALUTAZIONE

Scala di valutazione

- 1- PER NIENTE
- 2- POCO
- 3- SODDISFATTO
- 4- ABBASTANZA
- 5- MOLTO

QUESTIONARIO DI VALUTAZIONE					
1) Gli obiettivi formativi del training sono ritenuti appropriati?	1	2	3	4	5
2) L'organizzazione del training è stata ottimale?	1	2	3	4	5
3) Userete la conoscenza acquisita nelle vostre attività professionali o formative?	1	2	3	4	5
4) Ci sono argomenti importanti che avremmo dovuto trattare e non sono stati inclusi nella formazione?	<ul style="list-style-type: none"> • • • 				



Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M €
Budget del progetto

1,74 M €
FESR / IPA

30 Mesi
Durata del progetto

**WP4 - Transferring
Attività 4.3 - Training Course**

3° Corso di formazione
"Azioni e strategie per rimuovere/ridurre gli effetti delle barriere che ostacolano/impediscono la realizzazione di filiere bosco-legno-energia nelle aree protette"

Martedì 23 Ottobre 2018
Aula Magna
Dipartimento Scienze Agrarie
Alimentari e Forestali
Università di Palermo
Viale delle Scienze, Edificio 4

Al partecipanti (scoti agli Ordini dei Dottori Agronomi e Forestali saranno riconosciuti Crediti Formativi professionali)

09:00 - Registrazione dei partecipanti
09:30 - Interventi introduttivi/Apertura del corso formativo
Massimo Pizzuto Antinoro, Dipartimento Sviluppo Rurale e Territoriale Regione Siciliana-Responsabile del progetto ForBioEnergy
Stefania Colazza, Direttore Dipartimento SAAP, UNIPA
Paola Armano, Presidente Ordine dei Dottori Agronomi e Forestali di Palermo
09:50 - Attuale processo di autorizzazione e regolamentazione degli interventi forestali nel Parco delle Madonie
Peppuccio Bonanno, Ente Parco delle Madonie
10:15 - Opportunità e limiti delle misure forestali del PSR Sicilia 2014-2020
Angelo Merlino, Federazione Regionale Ordini Dottori Agronomi e Forestali della Sicilia
10:45 - Possibili azioni e strategie per la rimozione delle barriere che impediscono/ostacolano l'uso della biomassa forestale nel Parco delle Madonie (risultati del gruppo di lavoro del progetto ForBioEnergy)
Claudia Rubino, Enviland Srl
Emilio Badalamenti, Dipartimento SAAP, UNIPA
11:15 - Coffee break
11:45 - La gestione forestale in Toscana tra limiti e opportunità. Esempi di buone pratiche nelle aree protette
Antonio Montre, Unives di Comuni Valdarno e Valdisieve (FI)
12:30 - Discussione con i partecipanti e chiusura del corso

Partner del progetto

Facebook: @ForBioEnergy Twitter: @ForBioEnergy LinkedIn: www.linkedin.com/groups/13530086

Interreg Mediterranean

ForBioEnergy

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Programme cofinanced by the European Regional Development Fund



Forbioenergy

"Mi piace" aggiunto alla Pagina · 22 ottobre ·

Martedì 23 ottobre al Dipartimento di Scienze Agrarie Alimentari e Forestali dell'Università di Palermo si terrà il terzo Training course dal titolo "Azioni e strategie per rimuovere/ridurre gli effetti delle barriere che ostacolano/impediscono la realizzazione di filiere bosco-legno-energia nelle aree protette". L'evento rientra nell'ambito delle attività di Transferring della WP4 (Attività 4.3).

On Tuesday, 23 October the third Training course entitled "Actions and strategies to remove/reduce the effects of barriers that impede/prevent the realization of wood-energy supply chains in the protected areas" will be held at the Department of Agricultural and Forestry Sciences of the University of Palermo. The event is part of the WP4 Transferring activities (A.4.3).

3

Condivisioni: 4



Mi piace



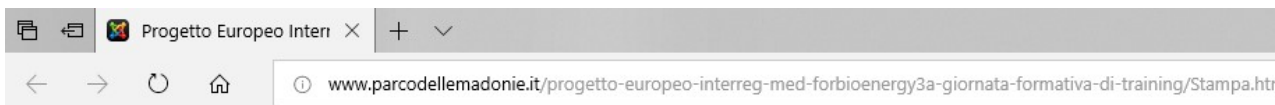
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Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M €
Budget del progetto

1,74 M €
FESR / IPA

30 Mesi
Durata del progetto

**WP4 - Transferring
Attività 4.3 - Training Course**

3° Corso di formazione
"Azioni e strategie per rimuovere/ridurre gli effetti delle barriere che ostacolano/impediscono la realizzazione di filiere bosco-legno-energia nelle aree protette"

Martedì 23 Ottobre 2018

09:00 - Registrazione dei partecipanti
09:30 - Interventi introduttivi/Apertura del corso formativo
Massimo Pizzuto Antinoro, Dipartimento Sviluppo Rurale e Territoriale Regione Siciliana-Responsabile del progetto ForBioEnergy
Stefania Colazza, Direttore Dipartimento SAAP, UNIPA
Paola Armano, Presidente Ordine dei Dottori Agronomi e Forestali di Palermo
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Peppuccio Bonanno, Ente Parco delle Madonie
10:15 - Opportunità e limiti delle misure forestali del PSR Sicilia 2014-2020
Angelo Merlino, Federazione Regionale Ordini Dottori Agronomi e Forestali della Sicilia
10:45 - Possibili azioni e strategie per la rimozione delle barriere che

4 TRAINING REPORTS

4.1 Training no. 4

4.1.1 Technical report

Pilot Area	<i>Madonie Regional Park</i>
Event title	"Forest planning and biomass production for energy purposes in protected areas"
Involved partner	<i>LP Department of Rural Development and Territorial Region of Sicily - PP1 Municipality of Petralia Sottana - PP2 Enviland</i>
Responsible partners	<i>LP Department of Rural and Territorial Development, Sicilian Region</i>
Location	<i>Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo</i>
Date	<i>06-12-2018</i>

No. of participants	<i>66</i>
Target groups	<i>Operators of local administrations, regional and local administrators, private operators of the sector, students of the Faculty of Agriculture of Palermo, other operators of the category.</i>
Trainers/speakers	<p>4 speakers:</p> <ul style="list-style-type: none"> - Dr. Paolo Girgenti, Regional Department of Rural and Territorial Development - Dr. For. Paolo Contrino, SAAF Department - Dr. For. Ivan Buscemi, SAAF Department - Dott.ssa Roberta Berretti, DISAFA Department, UNITO
Training materials	<p>PPT presentations:</p> <ul style="list-style-type: none"> - <i>Forest planning in Sicily: history and recent developments</i> - <i>Methods and tools to support the forest planning of territorial scale addressed to the production of biomass for energy purposes in the Madonie Park</i> - <i>Preliminary results of the forest management plan of the Biomass District "Petralia Sottana - Petralia Soprana - Castellana Sicula"</i> - <i>Current events and scenarios of forest planning in Piedmont</i> <p>2. Dissemination material:</p> <ul style="list-style-type: none"> - ForBioEnergy brochure

- ForBioEnergy Roll-up
- Interreg Med Proforbiomed project report "Improving of the energy efficiency and promotion of renewable energy sources"
- Report Life ResilForMed, Resilience to the change of the Mediterranean Forests

(describe in few sentences what was main aim and goals of the training, who were participants, shortly describe the programme and the training process)

The fourth training course was focused on “forest planning and the production of biomass for energy purposes in protected areas”. The training course lasted about six hours, it was attended by technicians and officials from local and regional administrations, administrators of public organizations, technicians from private companies operating in the forest sector, various professional categories, agronomists and forestry experts, students from the Department of Agriculture, Food and Forest Sciences of the University of Palermo. The speakers were four, in detail:

Dr. Paolo Girgenti, Regional Department of Rural and Territorial Development, talked about "Forest planning in Sicily: history and recent developments". He firstly discussed about the regulatory framework for the Sicilian forests. Subsequently, he showed the stages leading the Sicily Region to provide itself with a regional forest plan. The updating of the forest plan concerns the knowledge part, such as the description of forest categories and forest types, based on the information from the Regional Forest Inventory and the forest map, but also the address part, in which, for example, a chapter is dedicated to forest planning, also reporting in detail the forest management and sustainability standards for the Sicilian forests. Some new elements included in the plan were: the guidelines for territorial and local planning, the development of supply chains, in particular those related to cork, the research, experimentation and dissemination of knowledge activities. In the last two years, the Guidelines for the drafting of the Forest Management Plan and the Simplified Plan have been developed (Assessor Decree, December 2, 2016, No. 85). The latter is adopted in the case of artificial forests of coniferous and deciduous trees, with areas of single forest stands lower than 250 hectares.

Dr. For. Paolo Contrino, SAAF Department, talked about “Methods and tools to support the forest planning of territorial scale addressed to the production of biomass for energy purposes in the Madonie

Report on training

Park”. The first part of the speech was dedicated to identifying the biomass districts in the Madonie Park. They are the administrative units aimed at planning biomass supply chains for energy use. The criteria adopted for the detection were the following: territorial contiguity, total area of the municipalities even partly falling within the protected area, current agro-forestry area, distribution and characteristics of the main road network, the location of residential areas, municipal energy needs. Subsequently, he illustrated some examples of the use of DSS (Decision Support System) in territorial forest planning, such as the BiomassFor project implemented in the province of Trento. The DSS are tools aimed at supporting the planning of bioenergy production in protected areas, and allowing to plan the biomass supply chains for energy use, ensuring ecological and socio-economic sustainability. The speaker illustrated the objectives of the DSS, i.e. to describe the biomass districts in the GIS environment and to draw up the map of accessible wooded lands, so as to be able to establish the appropriate size of the plants for the production of energy and heat and the relative area of biomass supply.

Dr. For. Ivan Buscemi, SAAF Department, talked about "Preliminary results of the forest management plan of the biomass district Petralia Sottana - Petralia Soprana - Castellana Sicula". The first part of his speech was generally dedicated to the forest management plan, its establishment, regulations and objectives. Subsequently, for the identified biomass district, he described the activities carried out to detect the existing forest parcels (N = 30) and the sub-parcels (N = 136). The following activities were carried out: the geographical classification of the target area of the plan and identification of the ownership, the identification of the current constraints (hydrogeological, landscape, environmental, ecc.), the identification of forest parcels on a physiographic basis and any sub-parcels on a physiognomic basis, cartographic processing of the parcels. The next surveys will allow to describe the parcels with the help of specific sheets in order to identify the main ecological features, the disturbance factors, either anthropic or natural, which may affect the technical management, the accessibility, the current vegetation types and the description of their main features, as well as the potential biomass production.

Dott.ssa Roberta Berretti, DISAFA Department UNITO, talked about "Current events and scenarios of forest planning in Piedmont". She described the works carried out in the Piedmont Region for the forest planning at a regional level, including the establishment of the forest

	<p>inventory, the monitoring of forests, ecc. For private owners, all these tools are available together with plans for expected interventions and future intervention projects. Subsequently, the speaker showed the structure of the forest plan of the Piedmont region. Then, she talked about the management of forests in the supra-municipal context, adopting the territorial forest plans (TFPs). The main strengths of a TFP are the following: the acquisition of detailed quantitative and qualitative information about the extant forests resources, the management potentials for forests pastures, the establishment of interdisciplinary and technical work groups, the involvement of local administrations and stakeholders, the creation of standard for plans implementation and regional forest information system. The speaker then talked about the company forest plans (CFP) currently adopted in Piedmont, which may be adopted by companies with specific characteristics, and which require several updates to make them more usable.</p>
Feedback from participants	<p><i>describe discussion and opinion of the participants. Was there any active participation? How did the participants evaluate the training? What are lessons learnt?</i></p> <p>At the end of the training activities, the participants evaluated the training day through a questionnaire consisting of 4 questions, expressing a degree of satisfaction going from 1 to 5, with 1 meaning "not at all satisfied" and 5 "very satisfied". 42 participants answered to the questionnaire.</p> <p>The questions and the related evaluation results are shown below.</p> <p>Question 1: Are the training objectives of the training considered appropriate? 40% of the participants consider themselves "very satisfied", 41% consider themselves "quite satisfied", 19% are "satisfied"</p> <p>Question 2: Has the organization of the training been finest? 51% of the participants consider themselves "very satisfied", 41% consider themselves "quite satisfied", 8% consider themselves "satisfied"</p> <p>Question N.3: Do you use the knowledge acquired in your professional or training activities? 52% of the participants believe that they will use a lot of the knowledge acquired in the professional and/or training activities, 38% will use it enough, while 10% of the participants will use it little.</p> <p>Question N.4: none of the participants answered this question</p>

4.1.2 Attachments

EVENT AGENDA (invitation, program)

Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M €

Budget
del progetto

1,74 M €

FESR / IPA

30 Mesi

Durata
del progetto



WP4 - Transferring Attività 4.3 – Training Course

4° Corso di formazione

"Pianificazione forestale e
produzione di biomassa a fini
energetici nelle aree protette"

Giovedì 6 Dicembre 2018

Aula Magna

Dipartimento Scienze Agrarie
Alimentari e Forestali

Università di Palermo

Viale delle Scienze, Edificio 4

Ai partecipanti iscritti agli Ordini dei
Dottori Agronomi e Forestali saranno
riconosciuti Crediti Formativi
Professionalì

09:00 Registrazione dei partecipanti

09:30 Apertura del corso formativo

Massimo Pizzuto Antinoro, Dipartimento Sviluppo Rurale e Territoriale, Regione Siciliana - Responsabile del progetto ForBioEnergy
Stefano Colazza, Direttore Dipartimento SAAF, UNIPA
Paola Armato, Presidente Ordine dei Dottori Agronomi e Forestali di Palermo

09:50 Intervento introduttivo

Federico Maetzke, Dipartimento SAAF, UNIPA

10:00 La pianificazione forestale in Sicilia: storia e recenti evoluzioni

Paolo Girgenti, Dipartimento Sviluppo Rurale e Territoriale, Regione Siciliana

10:20 Metodologie e strumenti a supporto della pianificazione forestale di indirizzo territoriale orientata alla produzione di biomassa a fini energetici nel Parco delle Madonie

Paolo Contrino, Dipartimento SAAF, UNIPA

10:45 Risultati preliminari del piano di gestione forestale del Distretto della biomassa di Petralia Sottana - Petralia Soprana - Castellana Sicula

Ivan Buscemi, Dipartimento SAAF, UNIPA

11:10 Coffee break

11:45 Esempi di piani di gestione di siti Natura 2000 e connessioni con la pianificazione forestale

Angelo Dimarca, Legambiente Sicilia/ Consulta Gestione Forestale Responsabile Sicilia

12:10 Attualità e scenari della pianificazione forestale in Piemonte

Roberta Berretti, Dipartimento DISAFA, UNITO

12:50 Discussione con i partecipanti e chiusura del corso

Partner del progetto



REGIONE SICILIANA
ASSESSORATO REGIONALE DELL'AGRICOLTURA
E DELLA PESCA MEDITERRANEA
DIPARTIMENTO REGIONALE DELLO
SVILUPPO RURALE E TERRITORIALE



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Interreg
Mediterranean



ForBioEnergy

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Enviland srl

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Progetto co-finanziato dal Fondo Europeo per lo Sviluppo Regionale
Programme cofinanced by the European Regional Development Fund

EVALUATION QUESTIONNAIRE



Forest Bioenergy in the Protected Mediterranean Areas

WORKPACKAGE 4-TRASFERRING
ACTIVITY A.4.3 - TRASFERRING OF PAST AND CURRENT KNOW-HOW

4° Corso di formazione "Pianificazione forestale e produzione di biomassa a fini energetici
nelle aree protette"

PALERMO 06/12/2018

Dipartimento Scienze Agrarie, Alimentari e Forestali, Università di Palermo

QUESTIONARIO DI VALUTAZIONE

Scala di valutazione

- 1- PER NIENTE
- 2- POCO
- 3- SODDISFATTO
- 4- ABBASTANZA
- 5- MOLTO

QUESTIONARIO DI VALUTAZIONE					
1) Gli obiettivi formativi del training sono ritenuti appropriati?	1	2	3	4	5
2) L'organizzazione del training è stata ottimale?	1	2	3	4	5
3) Userete la conoscenza acquisita nelle vostre attività professionali o formative?	1	2	3	4	5
4) Ci sono argomenti importanti che avremmo dovuto trattare e non sono stati inclusi nella formazione?	<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p>..</p> <p>..</p> <p>..</p> </div> <div style="flex: 4; height: 100px; border: 1px solid black;"></div> </div>				



Pianificazione e gestione forestale in Sicilia - Forestry in Sicily

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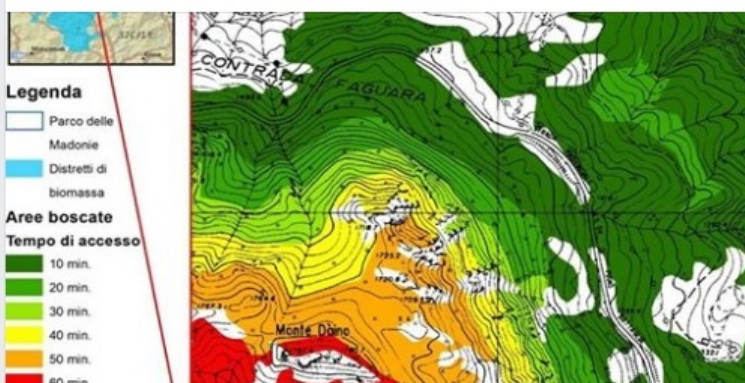


Pianificazione e gestione forestale in Sicilia - Forestry in Sicily

ha aggiunto un evento.

24 novembre 2018 · 🌐

Giornata formativa nell'ambito del progetto MED ForBioEnergy sulla pianificazione forestale sia di indirizzo territoriale sia aziendale a supporto della produzione di biomassa a fini energetici nelle aree protette. L'evento è patrocinato dall'Ordine dei Dottori Agronomi e Forestali di Palermo e agli iscritti che parteciperanno all'evento saranno riconosciuti CFP.



GIO, 6 DIC 2018

Pianificazione forestale e uso energetico della biomassa in AP

✓ Parteciperò ▾

ForBioEnergy, a Palermo i primi ri X

→ ↻ ⓘ https://www.monrealepress.it/2018/12/05/forbioenergy-a-palermo-i-primi-risultati-del-piano-di-gestione-della-t

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Home - Palermo - ForBioEnergy, a Palermo i primi risultati del piano di gestione della biomassa forestale

ForBioEnergy, a Palermo i primi risultati del piano di gestione della biomassa forestale



5 DICEMBRE 2018 PALERMO



5 TRAINING REPORTS

5.1 Training no. 5

5.1.1 Technical report

Pilot Area	Madonie Regional Park
Event title	Forest certification and planning of the forest-wood-energy supply chain in the protected areas
Involved partner	LP Department of Rural and Territorial Development, Sicilian Region - PP1 Municipality of Petralia Sottana - PP2 Enviland
Responsible partners	LP Department of Rural and Territorial Development, Sicilian Region
Location	Great Hall of the Department of Agricultural, Food and Forest Sciences (SAAF) of the University of Palermo

Date	10-06-2019
No. of participants	52
Target groups	<i>Operators of local administrations, regional and local administrators, private operators of the sector, students of the the Department of Agricultural, Food and Forest Sciences of the University of Palermo, other operators of the forestry category.</i>
Trainers/speakers	4 speakers: <ul style="list-style-type: none"> - Dr. For. Sebastiano Sferlazza SAAF Department - Dr .For. Emilio Badalamenti SAAF Department - Dr .Agr. Antonino Galati SAAF Department - Dr .Agr. Santino Orlando SAAF Department
Training materials	<p>PPT presentations:</p> <ul style="list-style-type: none"> - Decision support system (DSS) for territorial and local forest planning for bioenergy production in Protected Areas. - Definition of the forest-wood-energy supply chain in the Biomass District of Petralia Sottana-Petralia Soprana and Castellana Sicula (PA) - The certification in the forest-wood sector. - Techniques and work systems with low environmental impact for the harvesting of biomass in Protected Areas <p>2. Dissemination material:</p> <ul style="list-style-type: none"> - ForBioEnergy brochure - ForBioEnergy Roll-up - Interreg Med Proforbiomed project report "Improving of the energy efficiency and promotion of renewable energy sources" - Report Life ResilForMed, Resilience to the change of the Mediterranean Forests

Report on training	<p><i>(describe in few sentences what was main aim and goals of the training, who were participants, shortly describe the programme and the training process)</i></p> <p>Interreg Med ForBioEnergy is a project of European interest co-funded by the European Fund for Regional Development. On Monday 10 June 2019, at the Great Hall of the Department of Agricultural, Food and Forest Sciences, University of Palermo, the fifth training course "Forest certification and planning of the forest-wood-energy supply chain in the protected areas", was held. The training lasted for about six hours, and was attended by technicians and officials from local and regional administrations, administrators of Public organizations, technicians of private companies operating in the forest sector, various professional categories, agronomists and foresters, students of the Department of Agriculture, Food and Forest Sciences of the University of Palermo. Four experts of the sector presented reports, below are the details of the interventions:</p> <ul style="list-style-type: none"> • Dr. For. Sebastiano Sferlazza SAAF Department - Decision Support System (DSS) for territorial and local forest planning for bioenergy production in Protected Areas. The speech by Dr. Sferlazza began with an overview of the situation especially regarding the following issues: the planning processes are lacking or are mainly oriented to passive conservation of forest ecosystems; inadequacy of the current regulatory framework and of the authorization process for forest interventions; lack of processes and innovative projects in the field of the bio-energy sector. One of the objectives of the ForBioEnergy project is to support the administrations in planning the supply chain of biomass for energy use in a protected area. In this regard, as a preliminary activity in the project, the biomass district 4 (Petràlia Soprana, Petralia Sottana and Castellana Sicula) was identified and characterized, defined as homogeneous administrative unit, aimed at planning a supply chain of biomass for energy use, compatible with the principles of protection of the natural environment and promoting the socio-economic development of the territory. Subsequently, the forest management plan was drawn up for the district, and a Decision Support System (DSS) was then implemented. A software was developed in a GIS environment, using both the commercial ArcGIS software and the open source QGIS software. Two models have been generated (Basic and Advanced). In all cases, the architecture of the model includes: • The definition of the input information layers (Input); • Selection of the algorithms to be applied; • The return of the output information layers (Output). • The Decision Support System (DSS) will support the
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administrations in the actions to be taken regarding the production of bio-energy within the district, and will facilitate the monitoring of the forest heritage, necessary for strategic planning.

- Dr .For. Emilio Badalamenti, SAAF Department - Definition of the forest-wood-energy supply chain in the Biomass District of Petralia Sottana-Petralia Soprana and Castellana Sicula (PA). Dr. Badalamenti firstly showed the main objective of the ForBioenergy project, namely to promote the use of residual agro-forestry biomass for energy purposes within the Madonie Natural Park. In the case of forest areas, biomass derives from interventions of sustainable forest management, following the principles of systemic silviculture, with the main objective of maintaining the ability of forest systems to provide useful goods and services to the community over time (ecosystem services), or to favor the dynamics and natural regeneration of forests. Therefore, biomass for energy use is not the main objective of management, but, rather, it may represent a possible productive destination following silvicultural interventions that are necessary for the survival and improvement of the forest systems. The report continued with two slides showing respectively: an example of a micro-supply chain conceivable within the district 4, and the main barriers to the setting up of a short forest-wood-energy supply chain. The second part of the speech illustrated the process of drawing up of the forest management plan (FMP), and the related results. The management plan concerned the woody formations falling within the Biomass District 4 (Municipalities of Castellana Sicula, Petralia Soprana and Petralia Sottana), which includes about 2,700 ha of forest area. In sequence, the parcel and the dendrometric surveys have been carried out. The field data, and the following calculations allowed us to determine the biomass that can be used for energy purposes, i.e. the total aboveground biomass (main trunk and branches) of the species of poor economic value, as well as the branches of all the surveyed trees. Other assortments (mostly firewood) can be obtained from the stems of the valuable species exceeding set diameter thresholds. Furthermore, the total biomass available for energy purposes was determined during the validity period of the FMP, and sorted by ownership regime. In conclusion, in the study area (Biomass District 4), the woody biomass available for energy use, derived from the sustainable forest management (within the framework of necessary FMPs) is significant ($\approx 24,000$ t). Hence, there is the possibility of creating small biomass plants, which must be suitably sized and placed so as to constitute a short chain, that should be sustainable from an ecological and socio-economic point of view.

- Dr. Agr. Antonino Galati SAAF Department - Certification in the forest-wood sector. Dr. Galati introduced his intervention, dealing with the theme of sustainability, and the increasing attention by customers towards sustainable lifestyles, which should lead to the reduction of indiscriminate consumption of natural resources. The following slides illustrated the concept of certification, and showed the main operations needed to certify a product. The main international management systems are Quality System (SQ), Environmental management system (EMS), and Integrated Quality-Environmental Safety System (QSA). A product or process can be certified. Around the year 1990, the need for sustainable management of forest areas arose, with the will to promote an international tropical wood control scheme to reward "Responsible" production and trade of the wood. The certification is identified as a tool capable of providing credible guarantees to consumers by demonstrating the company's commitment to social, environmental and economic principles. A slide in particular defined what forest certifications are, that is tools through which an independent body accredited to the company assesses whether forest management respects predetermined ecological, economic and social standards, and certifies compliance with the principles of sustainability through a written document. The schemes that can be used for the certification of forest organizations are: General schemes for process certification (not specific to the forest sector, like ISO14001, EMAS, ecc.), general schemes for product certification (ecolabel, PGI, organic products, ecc.), specific schemes developed for the forest sector for certification, which generally also allow the use of a product brand (FSC, PEFC). The forest certifications currently usable are: Forest Stewardship Council (FSC); Program for Endorsement of Forest Certification Schemes (PEFC).

Dr.Agr. Santino Orlando SAAF Department - Techniques and work systems with low environmental impact for biomass collection in Protected Areas. Prof. Orlando introduced his report discussing the concept of environmental impact, based on the principle that it is always better to prevent the possible negative effects of a project than to combat its consequences at a later moment. In general, the environmental impact is a set of effects on the environment determined by an event, an action or a certain behavior driven by man. Evaluating it means predicting which consequences, either positive or negative, will have a certain action on the environment. Defining the impact of forestry use on the environment is particularly

complex. There are no low environmental impact work systems that could be valid in all situations, but there are different extraction systems and technical devices that allow the environmental impact to be minimized. The main negative effects of forestry works are at ground level, especially during the concentration and extraction phases. The main impacts on the atmosphere can be traced back to both the emission of pollutants contained in the exhausts of machinery and motorized equipment, and to the noise pollution caused by the noise emitted by machinery. Of considerable impact are the polluting emissions (exhaust gas, oil) and the noise of the chainsaw. Due to breakages or unscrupulous maintenance interventions, there are often huge losses of oil and/or fuels that easily reach and pollute the watercourses and streams. The presentation continued with the demonstration of low impact techniques for the yarding and handling of timber.

describe discussion and opinion of the participants. Was there any active participation? How did the participants evaluate the training? What are lessons learnt?

At the end of the training activities dedicated to "**Forest certification and planning of the forest-wood-energy supply chain in the protected areas**", the participants evaluated the training day through a questionnaire consisting of 4 questions, expressing a degree of satisfaction going from 1 to 5, with 1 meaning "not at all satisfied" and 5 "very satisfied". 16 participants answered to the questionnaire.

The questions and the related evaluation results are shown below.

Question 1: Are the training objectives of the training considered appropriate?

42% of the participants consider themselves "very satisfied", 39% consider themselves "quite satisfied", 19% are "satisfied"

Question 2: Has the organization of the training been finest?

68% of the participants consider themselves "very satisfied", 22% consider themselves "quite satisfied", 10% consider themselves "satisfied"

Question N.3: Do you use the knowledge acquired in your professional or training activities?

51% of the participants believe that they will use a lot of the knowledge acquired in the professional and/or training activities, 37% will use it enough, while 12% of the participants will use it little.

Question N.4: three participants proposed the following themes:

- 1) *What costs and incomes can be obtained with the production of bio-energy*

Feedback from participants

- | | |
|--|--|
| | <ul style="list-style-type: none">2) <i>Planning of new forest and/or agricultural areas for biomass production</i>3) <i>Detailed analysis of the economic and environmental costs/benefits associated to forest bioenergy production</i> |
|--|--|

5.1.2 Attachments

Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M €
Budget
del progetto

1,74 M €
FESR / IPA

30 Mesi
Durata
del progetto

WP4 - Transferring
Attività 4.3 – Training Course

5° Corso di formazione

“Certificazione forestale e pianificazione della filiera bosco-legno-energia nelle aree protette”

Lunedì 10 giugno 2019
Aula D
Dipartimento Scienze Agrarie
Alimentari e Forestali
Università di Palermo
Viale delle Scienze, Edificio 4

Ai partecipanti iscritti agli Ordini dei Dottori Agronomi e Forestali saranno riconosciuti Crediti Formativi Professionali

09:00 - Registrazione dei partecipanti

09:30 - Apertura del corso
Massimo Pizzuto Antinoro, Dipartimento Sviluppo Rurale e Territoriale, Regione Siciliana - Responsabile del progetto ForBioEnergy
Stefano Colazza, Direttore Dipartimento SAAF, UNIPA
Paola Armato, Presidente Ordine dei Dottori Agronomi e Forestali di Palermo

09:45 - Intervento introduttivo
Donato S. La Mela Veca, Dipartimento SAAF, UNIPA

10:00 - Sistema di supporto alle decisioni (DSS) per la pianificazione forestale di indirizzo territoriale e locale per la produzione di bioenergia nelle Aree Protette.
Sebastiano Sferlazzo, Dipartimento SAAF, UNIPA

10:30 - Definizione della filiera bosco-legno-energia nel Distretto della biomassa di Petralia Sottana - Petralia Soprana e Castellana Sicula (PA).
Emilio Badalamenti, Dipartimento SAAF, UNIPA

11:00 - La certificazioni nel settore foresta-legno.
Antonino Galati, Dipartimento SAAF, UNIPA

11:30 Coffee break

12:00 - Tecniche e sistemi di lavoro a basso impatto ambientale per la raccolta della biomassa nelle Aree Protette.
Santino Orlando, Dipartimento SAAF, UNIPA

12:30 - Esempio di filiera corta legno-energia in Sicilia.

12:45 - Discussione con i partecipanti e chiusura del corso

Partner del progetto



<https://forbioenergy.interreg-med.eu/>
 Facebook: @ForBioEnergy Twitter: @ForBioEnergy LinkedIn: www.linkedin.com/groups/13530086



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Progetto co-finanziato dal Fondo Europeo per lo Sviluppo Regionale
Programme cofinanced by the European Regional Development Fund

EVALUATION QUESTIONNAIRE

Bioenergia Forestale nelle Aree Protette del Mediterraneo

2,05 M €

Budget
del progetto

1,74 M €

FESR / IPA

30 Mesi

Durata
del progetto



**WP4 - Transferring
Attività 4.3 - Training Course**

5° Corso di formazione

**"Certificazione forestale e
pianificazione della filiera
bosco-legno-energia
nelle aree protette"**

Lunedì 10 giugno 2019
Aula D
Dipartimento Scienze Agrarie
Alimentari e Forestali
Università di Palermo
Viale delle Scienze, Edificio 4

Ai partecipanti iscritti agli Ordini dei
Dottori Agronomi e Forestali saranno
riconosciuti Crediti Formativi
Professionali.

09:00 - Registrazione dei partecipanti

09:30 - Apertura del corso

Modulo 1: Risorse Antonino, Dipartimento Sviluppo Rurale e Territoriale Regione Siciliana - responsabile del progetto ForBioEnergy
Stefano Colazza Direttore Dipartimento SAAF, UNIPA
Paola Armato, Presidente Ordine dei Dottori Agronomi e Forestali di Palermo

09:45 - Intervento Introduttivo

Donato S. La Mela Veca, Dipartimento SAAF, UNIPA

10:00 - Sistema di supporto alle decisioni (DSS) per la pianificazione forestale di indirizzo territoriale e locale per la produzione di bioenergia nelle Aree Protette.

Sebastiano Steriaccia, Dipartimento SAAF, UNIPA

10:30 - Definizione della filiera bosco-legno-energia nel Distretto della biomassa di Petralia Sottana - Petralia Soprana e Castellana Sicula (PA).

Emilio Badalamenti, Dipartimento SAAF, UNIPA

11:00 - La certificazioni nel settore foresta-legno.

Antonino Galati, Dipartimento SAAF, UNIPA

11:30 Coffee break

12:00 - Tecniche e sistemi di lavoro a basso impatto ambientale per la raccolta della biomassa nelle Aree Protette.

Santino Orlando, Dipartimento SAAF, UNIPA

12:30 - Esempio di filiera corta legno-energia in Sicilia.

12:45 - Discussione con i partecipanti e chiusura del corso

Partner del progetto



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**Interreg
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Progetto co-finanziato dal Fondo Europeo per lo Sviluppo Regionale
Programme cofinanced by the European Regional Development Fund



**Pianificazione e gestione forestale in
Sicilia - Forestry in Sicily**

"Mi piace" aggiunto alla Pagina · 8 giugno ·

Vi aspettiamo lunedì 10 giugno presso il
DIPARTIMENTO SAAF dell'Università di Palermo
per il 5° Training Course organizzato nell'ambito del
progetto MED Interreg Forbioenergy. Per gli iscritti
agli Ordini Agronomi e Forestali è prevista
l'attribuzione di CF.

4

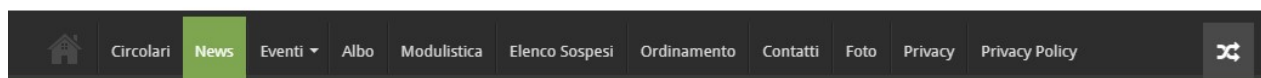
Condivisioni: 11

Mi piace Commenta Condividi



Scrivi un commento...




ULTIME NEWS

ANNULLATO – Evento formativo sul tema: Gli Agronomi Raccontano – Innovazione e marketing della filiera ortofrutticola – Chiusa Sclafani 27 giugno 2019

Home / Eventi / Eventi Formativi Ordine / 5° Corso di formazione "Certificazione forestale e pianificazione della filiera bosco-legno-energia nelle aree protette"

5° CORSO DI FORMAZIONE "CERTIFICAZIONE FORESTALE E PIANIFICAZIONE DELLA FILIERA BOSCO-LEGNO-ENERGIA NELLE AREE PROTETTE"

Il 10/6/2019, a partire dalle ore 9,00, si terrà il 5° Corso di formazione sul tema **"Certificazione forestale e pianificazione della filiera bosco-legno-energia nelle aree protette"** presso l'Aula D del Dipartimento Scienze Agrarie Alimentari e Forestali dell'Università di Palermo, Viale delle Scienze, Edificio 4.

Ai Dottori Agronomi e Dottori Forestali che vi prenderanno parte potranno essere riconosciuti fino a 0.500 CFP.

L'evento è incluso nel Piano Formativo di questo Ordine e pertanto coloro che intendono prendervi parte dovranno prenotarsi tramite SIDAF.

[Clicca qui per visionare il programma dell'evento](#)

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Accedi

IN EVIDENZA – A TUTTI GLI ISCRITTI


E' obbligatorio dotarsi di **PEC**. Per la modulistica si rimanda alla **Sezione PEC**.



È obbligatorio dotarsi di **Smart Card**. Per la procedura si rimanda

Interreg
Mediterranean



ForBioEnergy

6 TRAINING REPORTS

6.1 Training no. 6

6.1.1 Technical report

Pilot Area	<i>Madonie Regional Park</i>
Event title	<i>Final results of the ForBioEnergy Project “Forest Bioenergy in the Protected Mediterranean Areas”</i>
Involved partner	<i>LP Department of Rural and Territorial Development, Sicilian Region - PP1 Municipality of Petralia Sottana - PP2 Enviland</i>
Responsible partners	<i>LP Department of Rural and Territorial Development, Sicilian Region</i>
Location	<i>“Sala Lanza”, Botanical Garden, University of Palermo</i>
Date	<i>27-06-2019</i>

No. of participants	<i>46</i>
Target groups	<i>Operators of local administrations, regional and local administrators, private operators of the sector, students of the the Department of Agricultural, Food and Forest Sciences of the University of Palermo, other operators of the forestry category, Project’s partners from Slovenia, Croatia and Spain.</i>
Trainers/speakers	11 speakers: <ul style="list-style-type: none"> - <i>Dr. Massimo Pizzuto Antinoro</i>, Department of Rural and Territorial Development - <i>Prof. Dr. José-Vicente Oliver and Rebeca Aleix</i>, AMUFOR (Spain) - <i>Dr. Pietro Oieni</i>, Ministry of Agriculture, Food and Forestry policies (MIPAAF), Directorate-General of Forestry - <i>Dr. Despoina Karniadaki</i>, Enviland srl - <i>Dr. Donato S. La Mela Veca</i>, SAAF Department, UNIPA - <i>Dr. Marco Niccolini</i>, DREAm Soc. Coop. S.r.l. - <i>Dr. Antonio Parrinello</i>, Director of the National Park “Pantelleria Island” - <i>Dr. Kristina Sever</i>, Slovenian Forestry Institute (Slovenia) and <i>Dunja Mahne</i>, Regional Development Agency Green Karst Ltd (Slovenia) - <i>Dr. Leonardo Iuri Neglia</i>, Mayor of Petralia Sottana - <i>Dr. Giuseppe Tresca and Stefano Campeotto</i>, AIEL - <i>Dr. Marija Krnjajić</i>, Zadar County (Croatia)
Training materials	<i>PPT presentations:</i>

- The ForBioEnergy project
- Action Plan to remove the administrative and technical barriers that hinder the use of biomass in the protected areas
- Among European guidelines and national legislation: the Forestry Directorate General of Forestry of MiPAAFT for a careful use of forest resources
- Assessment of the potential impacts deriving from the biomass extraction in protected areas
- Planning of the use of biomass for energy purposes at territorial and local scale in protected areas
- Examples of forest planning and estimation of the woody biomass with LIDAR data
- Environmental and technical assumptions for the implementation of ForBioEnergy in the National Park “Pantelleria Island”
- Planning of the sustainable wood-energy supply chain and biomass quality requirements in protected areas
- Short wood-energy supply chain: the case study of the Municipality of Petralia Sottana (PA)
- Professional production of wood chips and certification: business models and application examples
- Communication tools created through the ForBioEnergy project

2. Dissemination material:

- ForBioEnergy brochure
- ForBioEnergy Roll-up
- Interreg Med Proforbiomed project report "Improving of the energy efficiency and promotion of renewable energy sources"
- Report Life ResilForMed, Resilience to the change of the Mediterranean Forests

Report on training

(describe in few sentences what was main aim and goals of the training, who were participants, shortly describe the programme and the training process)

Interreg Med ForBioEnergy is a project of European interest co-funded by the European Fund for Regional Development. On Thursday 27 June 2019, at the “Sala Lanza”, Botanical Garden, University of Palermo, the sixth training course “Final results of the ForBioEnergy Project “Forest Bioenergy in the Protected Mediterranean Areas”, was held. The training lasted for about seven hours, and it was attended by technicians and officials from local and regional administrations, administrators of Public organizations, technicians of

private companies operating in the forest sector, various professional categories, agronomists and foresters, students of the Department of Agriculture, Food and Forest Sciences of the University of Palermo, as well as by Project's partners coming from Slovenia, Croatia and Spain. The training course was introduced by Prof. Federico Maetzke, SAAF Department, UNIPA, who illustrated the organization of the course and the main issues faced during the course. Then, eleven experts of the sector presented reports; below are the details of the interventions:

- Dr. Massimo Pizzuto Antinoro, Department of Rural and Territorial Development. The speech by Pizzuto Antinoro showed the general characteristics of the ForBioEnergy project, including the main results achieved, the most relevant obstacles faced during the project.
- Prof. Dr. José-Vicente Oliver and Rebeca Aleix, AMUFOR (Spain). Their talk was focused on the Action plan for a new regulatory framework and permit route in the protected areas which has been developed in the ForBioEnergy project by each involved partner. The speech explained all the necessary phases to design and implement the action plan. Firstly, the speech was focused on the main objectives (among them to identify recommendations for the key actors involved, to develop an Action Plan at the regional & MED partner area level, To implement a new regulatory framework, ecc.). Then, the methodology adopted to identify the main barriers (legislative, administrative, technical, social and economic) was shown. On the one hand, some barriers were shared among the involved partners (e.g.: reticence to use biomass in protected areas, the fragmented ownership of private forest, the low profitability in biomass production, ecc.), thus underlining the need for similar solutions and/or approaches. On the other hand, each partner has also identified some specific objectives, strictly linked to the local environmental or socio-economic conditions. For instance, nine specific objectives were identified in Spain. After the identification, the next step was to identify the possible solutions for each barrier (and sub-barrier), including the responsible actor, and the time frame (short-, medium- or long-term). Finally, the speaker stated that the involvement of all key actors are essential to overcome the barriers and active the forest-based bioenergy value chain. In conclusion, a sustainable forest management may reduce the risk of forest fires, conserve the forest ecosystem and contributes directly to the rural development.

- Dr. Pietro Oieni, Ministry of Agriculture, Food and Forestry policies (MiPAAF), Directorate-General of Forestry. The speech was focused about the strategic role of the Forestry Directorate General of Forestry of MiPAAFT in the framework of the European guidelines and national legislation about the sound use of forest resources. He illustrated the available technology to ensure reduced emissions of greenhouse gases and high energy efficiency in the biomass plants. The most important aspects of the most recent Italian forestry law (N. 34/2018) were also shown. Particularly, the first two implementing decrees of this State Law were focused on the training of forest workers and the register of forest enterprises.
- Dr. Despoina Karniadaki, Enviland srl. The speech was focused on the possible environmental impacts caused by biomass harvesting in protected areas. The necessity to use techniques and work systems with low environmental impact for biomass collection is particularly felt within protected areas. One important objective of the ForBioEnergy Project was to develop and implement an effective methodology for the assessment of the risks and benefits deriving from forest biomass production in protected areas. The planned forest interventions should follow the principles of systemic silviculture and sustainable forest management, having the main objective of maintaining over time the ability of forest systems to provide goods and services useful to the community (ecosystem services), and to favor the dynamics and natural regeneration of forests. Therefore, biomass for energy use is not the main objective of management, but, rather, it may represent a possible productive destination following silvicultural interventions that are necessary for the survival and improvement of the forest systems. The impacts have to be assessed according to the specific forest operation (e.g. logging, cutting, yarding, ecc.). Specific indicators to assess the impacts on flora, fauna and abiotic components, were developed. The impacts to the social and economic components have also to be considered (e.g. possibility of increasing local employment) as well as those to the ecosystem services provided by forest ecosystems (e.g. protective function, carbon sequestration, ecc.). The indicators were selected through a rigorous process, taking into consideration the regulatory aspects, then it was shared and discussed with the project's partners. The defined methodology is flexible and transferable and it could be applied in other areas of the Mediterranean.
- Dr. Donato S. La Mela Veca, SAAF Department, UNIPA. The speech was focused on the forest planning tools considered and developed within the ForBioEnergy Project. A multi-level planning process has been implemented, including regional, local and operating scale. Particularly, the Activity A3.4

(Planning biomass-based energy production at regional and sub-regional level in protected areas) included two deliverables: D3.4.1 (Geographical identification and description of biomass districts in the protected areas) and D3.4.2 (DSS for planning biomass-based energy production in the protected areas). At local scale, specific Biomass Districts (BDs) were identified, that is the administrative units with the aim to plan biomass supply chains for energy use, ensuring ecological and socio-economic sustainability. The BDs represent the administrative units for the forest planning at company/local scale. The “open source” Decision Support System (DSS) has been implemented to support the Authorities responsible for land strategic planning in the identification of the Biomass Districts. In addition the DSS, implemented with other detailed layers (e.g. accessibility level of the forest areas, quantity of biomass obtainable from sustainable forest management, etc.), could be used as support for the drafting of the forest management plan (A.3.7) and for the design of the bioenergy supply chain (A.3.8). DSS could also be used, within the pilot BD, as a support for determining the optimum plant size (and power) for energy and heat production and the relative biomass supply area. Finally, in the pilot protected areas, the Forest Management Plan within one Biomass district has been drafted with the main aim to assess the woody biomass effectively available to feed a local forest-wood-energy supply chain, ecologically and socio-economically sustainable.

- Dr. Marco Niccolini, DREAM Soc. Coop. S.r.l. The speech was focused on the most recent technological advances concerning LiDAR datasets, and their possible use for forestry planning and stand volume estimation. Firstly, the way the LiDAR data are collected in the field were explained. Such data may allow to obtain the Canopy Height Model (CHM) and the DTM (Digital Terrain Model). The main aim is generally to assess the wood yield obtainable from a given forest area. However, other precious information for forest planning can be gathered with LiDAR data, such as the preliminary identification of viability, the help for identify and border the forest parcels, as well as the identification of the most suitable extraction systems of woody biomass. Then, the speaker illustrated some example cases where successfully used, especially for assessing the timber volume. Finally, the possible use of photogrammetric drones to update the Digital Surface Model (DSM) has been shown.
- Dr. Antonio Parrinello, Director of the National Park “Pantelleria Island”. The speech was focused to describe the particular environmental conditions of Pantelleria island, which has been recently included among the National Parks in

Italy. This recognition is due to its great ecological, social and economic heritage. For instance the traditional agricultural practice of cultivating the ‘vite ad alberello’ (head-trained bush vines) of the community of Pantelleria has been inscribed in 2014 on the Representative List of the Intangible Cultural Heritage of Humanity. The island also hosts a rich flora, with almost 600 plant taxa. The Director of the Park illustrated the possible positive impacts of the implementation of the forest management plan in Pantelleria island, following the results and approaches of the ForBioEnergy Project. Indeed, the forest areas of the island would require specific forest interventions, especially after the large fire of 2016, and the island is particularly interested in the promotion of renewable energy sources, among which wood is one of the most important. Indeed, Pantelleria is one of the 26 islands which launched their clean energy transition with the support of the European Commission’s Clean Energy for EU Islands Secretariat.

- Dr. Kristina Sever, Slovenian Forestry Institute (Slovenia) and Dunja Mahne, Regional Development Agency Green Karst Ltd (Slovenia). The speech was focused on some important activities carried out within the ForBioEnergy Project concerning the planning of the sustainable wood-energy supply chain and biomass quality requirements in protected areas. For what concerns the supply chain, the sustainability, under the environmental and socio-economic point of view, can be firstly ensured by forest interventions carried out within a clear and sound forest planning tool, drafted according to the principles of sustainable forest management. In this way, only forest operations necessary to improve the conservation status of forest resources or to promote the development towards more complex and stable forest ecosystems are performed. The woody biomass resulting from these interventions could feed a sustainable short forest-wood-energy supply chain. From the economic point of view the sustainability has been assessed in the project in terms of effective energy needs of local people and considering the possibility to establish a real wood market, which could provide positive effects on the employment levels as well as on the economic development of rural community. The importance of the quality of woody biomass for the economic sustainability of the supply chain has also been emphasized.
- Dr. Leonardo Iuri Neglia, Mayor of Petralia Sottana. The speech was focused to show the potential positive effects of the short forest-wood-energy supply chain for the municipality

	<p>of Petralia Sottana, which is partner of the ForBioEnergy project and falls within the Madonie Natural Park, Biomass District 4. In detail, the hypothesis to feed the boiler for the local swimming pool with the woody biomass deriving from the forest management of the surrounding woods, has been shown. The annual energy needs of the swimming pool is about 580,000 KWh. Within the project, the conversion from a diesel fuel (energy efficiency 50%) supply to a wood-chips boiler (energy efficiency 80%) has been hypothesized. This shift could ensure an overall saving of about 27,000 € per year. Even considering the cost necessary to convert the boiler from pellet to woodchips, the saving is high, of about 21,000 € per year. Such raw assessment highlights that a sustainable forest management can improve the conservation of forest resources, and also it may represent a high opportunity for the local development of the territory.</p> <ul style="list-style-type: none"> - Dr. Giuseppe Tresca and Stefano Campeotto, AIEL. The speech was focused on the professional production of wood chips and certification: business models and application examples. The examples derived from the activity of the Italian Association of Agroforestry Energy, which encompasses more than 500 companies at a national level. The speaker explained the organization of the Association and its main objectives; among them the certification of the biofuel quality. Then, several virtuous examples were illustrated. The main positive effects for local community can be the activation of local supply chains, the added value which remains in the territory, the quality biofuels & low atmospheric emissions, and replicability. - Dr. Marija Krnjajić, Zadar County (Croatia). The speech was focused to show the dissemination and communication activities carried out within the project by the different partners. These activities consisted in the distribution of brochures and other informative material (e.g. about the deliverables, during the technical panels and the training courses, ecc.). Some short videos illustrating the characteristics of the protected areas and the beneficial effects of establishing a short forest-wood-energy supply chain using the woody biomass obtainable from the sustainable forest management and systemic silviculture, were also shown.
Feedback from participants	<p><i>describe discussion and opinion of the participants. Was there any active participation? How did the participants evaluate the</i></p>

training? What are lessons learnt?

At the end of the training activities dedicated to “*Final results of the ForBioEnergy Project “Forest Bioenergy in the Protected Mediterranean Areas”*”, the participants evaluated the training day through a questionnaire consisting of 4 questions, expressing a degree of satisfaction going from 1 to 5, with 1 meaning "not at all satisfied" and 5 "very satisfied". 25 participants answered to the questionnaire.

The questions and the related evaluation results are shown below.

Question 1: Do you think that the results achieved in the ForBioEnergy project are useful for a sustainable management of forests?

85% of the participants consider themselves "very satisfied", 15% consider themselves "quite satisfied"

Question 2: Are you in favour of the use of residual wood as renewable source for the production of energy and heat in the protected areas?

68% of the participants consider themselves "very satisfied", 22% consider themselves "quite satisfied", 10% consider themselves "satisfied"

Question N.3: Will you use the knowledge acquired in the training course in your professional activities or in your approach in the issues about the natural resources?

85% of the participants believe that they will use a lot of the knowledge acquired in the professional and/or training activities, 15% will use it enough.

Question N.4: Has the organization of the training been the finest?

85% of the participants consider themselves "very satisfied", 15% consider themselves "quite satisfied"

6.1.2 Attachments

Bioenergia Forestale nelle Aree Protette del Mediterraneo



2,05 M €

Budget
del progetto



1,74 M €

FESR / IPA



30 Mesi

Durata
del progetto

09:00 - Registrazione dei partecipanti

10:00 - Introduzione
Federico MAETZKE, Dipartimento SAAF - UNIPA

10:30 - IL PROGETTO ForBioEnergy
Massimo PIZZUTO-ANTINORO, Dipartimento Regionale Sviluppo Rurale e Territoriale, Regione Siciliana

10:40 - Piano di Azione per la rimozione delle barriere amministrative-legislative, tecniche, economiche e sociali che ostacolano l'uso della biomassa nelle aree protette
José-Vicente OLIVER e Rebeca ALEIX, AMUFOR (Spagna)

11:00 - Tra indirizzi europei e normativa nazionale: la Direzione Foreste del MiPAAFT per un uso attento delle risorse forestali
Pietro OIENI, MiPAAFT - Direzione Generale delle Foreste - DIFOR III, Valorizzazione prodotti forestali e sviluppo imprese forestali

11:20 - Coffee break

12:00 - Valutazione dei potenziali impatti derivanti dall'estrazione della biomassa nelle aree protette
Despoina KARNIADAKI, Enviland srl

12:20 - Pianificazione dell'uso della biomassa a scopo energetico a scala territoriale e locale nelle aree protette
Donato S. LA MELA VECA, Dipartimento SAAF - UNIPA

12:40 - Esempi di pianificazione forestale e stima della massa legnosa con dati LIDAR
Marco NICCOLINI, DREAM Soc. Coop. S.r.l.

13:00 - Presupposti ambientali e tecnici per l'implementazione di ForBioEnergy nel Parco Nazionale Isola di Pantelleria
Antonio PARRINELLO, Direttore del Parco Nazionale Isola di Pantelleria

13:20 - Pausa pranzo

14:20 - Pianificazione della filiera sostenibile legno-energia e requisiti di qualità della biomassa nelle aree protette
Kristina SEVER, Slovenian Forestry Institute (Slovenia)
Dunja MAHNE, Regional Development Agency Green Karst Ltd (Slovenia)

14:40 - Filiera corta legno-energia: il caso studio del Comune di Petralia (PA)
Leonardo Iuri NEGLIA, Sindaco di Petralia Sottana

15:00 - Produzione professionale di cippato forestale e certificazioni: modelli imprenditoriali ed esempi applicativi
Giuseppe TRESCA e Stefano CAMPEOTTO - AIEL

15:20 - Strumenti di comunicazione realizzati con il progetto ForBioEnergy
Marija KRNIJAJČ, Zadar County (Croazia)

15:45 - Discussione con i partecipanti e chiusura del corso

WP4 - Transferring
Attività 4.3 – Training Course

6° Corso di formazione

Risultati finali del progetto ForBioEnergy
«Bioenergia forestale nelle aree protette del Mediterraneo»

Giovedì 27 giugno 2019
Sala Lanza
Orto Botanico
Università di Palermo
Via Lincoln, 2 Palermo

Partner del progetto



REGIONE SICILIANA
ASSESSORATO REGIONALE DELL'AGRICOLTURA,
DELLO SVILUPPO RURALE
E DELLA PESCA MEDITERRANEA
DIPARTIMENTO REGIONALE DELLO
SVILUPPO RURALE E TERRITORIALE



Municipality of
Petralia Sottana



ENVILAND



GOZDARSKI INŠTITUT SLOVENIJE
SLOVENIAN FORESTRY INSTITUTE



RDA
Green Karst



amufor
municipal forest: valencia



Cámara
Valencia



Zadar
County



VELEBIT
Park nacional Velebita park

<https://forbioenergy.interreg-med.eu/>

Facebook: @ForBioEnergy Twitter: @ForBioEnergy LinkedIn: www.linkedin.com/groups/13530086

EVALUATION QUESTIONNAIRE



Bioenergia forestale nelle aree protette del Mediterraneo

(Forest Bioenergy in the Protected Mediterranean Areas)

Conferenza Finale / Final Conference

Palermo 10/10/2019

Orto Botanico, Sala Lanza - via Lincoln, 2

QUESTIONARIO DI VALUTAZIONE

Scala di valutazione

- 1- PER NIENTE
- 2- POCO
- 3- SODDISFATTO
- 4- ABBASTANZA
- 5- MOLTO

VALUTAZIONE					
1) Ritenete che i risultati conseguiti dal Progetto ForBioEnergy siano appropriati per una gestione sostenibile delle aree protette?	1	2	3	4	5
2) Siete favorevoli all'uso del legno residuo come fonte rinnovabile per la produzione di energia e calore nelle aree protette?	1	2	3	4	5
3) Userete le conoscenze acquisite nelle vostre attività professionali e/o nel vostro approccio alle questioni che riguardano l'utilizzo delle risorse naturali?	1	2	3	4	5
4) L'organizzazione della conferenza è stata ottimale?	1	2	3	4	5
5) Ci sono argomenti importanti che avremmo dovuto trattare e sono stati esclusi?					

Project partners



OTHERS (media reports: newspapers, web page)

Facebook invitation:

ForBioEnergy final Conference
Bioenergia forestale nelle aree protette del Mediterraneo
Palermo, 27 giugno 2019, Orto Botanico – Sala Lanza - Via Lincoln, 2 - Palermo



PROGRAMMA

08:30 REGISTRAZIONE DEI PARTECIPANTI

09:00 CONFERENZA STAMPA

09:30 SALUTI DELLE AUTORITA'

City HANDEBA, Assessore Regionale Agricoltura, Sviluppo Rurale e Pesca Mediterranea
Mario CANDORE, Dirigente Generale Dipartimento Sviluppo Rurale e Territoriale
Leonardo SAN NICOLA, Sindaco di Petralia Soprana
Salvatore CALTAGIRONE, Comissario Parco delle Madonie
Albert BOLLINGER, Head of Project GREENCAP (via Skype)

Introduzione a modera Federico MAETZKE, Dipartimento SAAP UNIPA (Italia)

10:30 IL PROGETTO ForBioEnergy
Massimo PIZZUTO ANTINORI, Dipartimento Regionale Sviluppo Rurale e Territoriale, Regione Siciliana (Italia)

10:40 Piano di Azione per la rimozione delle barriere amministrative legislative, tecniche, economiche e sociali che ostacolano l'uso della biomassa nelle aree protette
Jose-Vicente OLIVER e Rebecca ALEX, AMULFOR (Spagna)

11:00 Tra tendenze europee e normative nazionali: la Direzione Foreste del MIPAAFT per un uso attento delle risorse forestali
Piero GIOIA MARAFI, Direzione Generale delle Foreste - DGRF (P)

Valorizzazione prodotti forestali e sviluppo imprese forestali (Italia)

11:20 COFFEE BREAK

12:00 Valutazione dei potenziali impatti derivanti dall'estrazione della biomassa nelle aree protette
Despina KATHODAKI, Evrotas (Grecia)

12:20 Pianificazione dell'uso della biomassa a scopo energetico a scala territoriale e locale nelle aree protette
Doroteo S. LA MELA VEGA, Dipartimento SAAP UNIPA (Italia)

12:40 Esempi di pianificazione forestale e stima della massa legnosa con dati LIDAR
Marco NICCOLAI, DREZAN Soc. Coop. S.r.l. (Italia)

13:00 Pre-requisiti ambientali e tecnici per l'implementazione di ForBioEnergy nel Parco Nazionale Isola di Pantelleria
Antonio PARRINELLO, Direttore del Parco Nazionale Isola di Pantelleria (Italia)

13:20 LUNCH

14:20 Pianificazione della filiera sostenibile foresta-legno-energia e requisiti di qualità della biomassa nelle aree protette
Petra ZIEGLER, Bioscience Forestry Institute (Slovenia)
Doris MAHNE, Regional Development Agency Green Kars-Lut (Slovenia)

14:40 Filiera corta legno-energia: il caso studio del Comune di Petralia
Leonardo SAN NICOLA, Sindaco di Petralia Soprana (Italia)

15:00 Produzione professionale di cippato forestale e certificazione: modelli imprenditoriali ed esempi applicativi
Giuseppe PRESCA e Stefano CAMPEOTTO, AED (Italia)

15:20 Strumenti di comunicazione realizzati con il progetto ForBioEnergy
Marja KRULJIC, Zestor County (Croazia)

15:40 DISCUSSIONE E CONCLUSIONI

16:00 COFFEE BREAK

16:30 SESSIONE PLENARIA TECHNICAL PANEL
Presentazione e firma dei Protocolli d'intesa per la valorizzazione della biomassa nelle aree protette promossi nell'ambito del progetto ForBioEnergy
Massimo PIZZUTO ANTINORI, Dipartimento Regionale Sviluppo Rurale e Territoriale, Regione Siciliana (Italia)



Pianificazione e gestione forestale in Sicilia - Forestry in Sicily

23 giugno · 🌐

Conferenza finale del progetto MED Interreg "ForBioEnergy" - 27 giugno 2019 - Sala Lanza dell'Orto Botanico di Palermo.

ForBioEnergy ha identificato, in termini di bioenergia, i punti di forza e di debolezza del contesto ambientale e socioeconomico che caratterizzano le aree protette di ciascuna regione UE coinvolta.

Le sfide di progetto sono state affrontate attraverso un processo partecipativo e condiviso che ha coinvolto istituzioni e organizzazioni sociali e produttive a livello regionale e locale.

Il contributo della cooperazione transnazionale ha consentito di affrontare le sfide in modo sinergico e di individuare le azioni da attuare per un'efficace politica regionale e locale per l'uso energetico della biomassa forestale residuale nel contesto delle aree protette delle regioni mediterranee ed in particolare:

- adeguare il quadro normativo, gli strumenti di pianificazione e gli iter di autorizzazione per concretizzare, a livello locale, filiere forestali del legno, nel rispetto delle prescrizioni condivise e necessarie per salvaguardare gli ecosistemi nelle aree protette;
- promuovere processi di pianificazione forestale comuni, in grado di conciliare le esigenze di sviluppo socio-economico delle aree rurali e la gestione sostenibile delle risorse forestali, migliorandone la capacità di fornire servizi ecosistemici e la resilienza;

Forest Bioenergy in the Protected Mediterranean Areas

www.interreg-med.eu/ForBioEnergy



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