





Forest Bioenergy in the Protected Mediterranean Areas

SLOVENIA

Transferring of past and current know-how

4.3.1 Training reports



September 2017

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 PP3 and PP4 (Kristina Sever, Tina Jemec, Anica Simčič)

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1 LIST OF ORGANIZED TRAININGS

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

Summary of organized trainings Table 1

No.	Partner	Country	Date	Place	No. of participants
1	PP3 (SFI) PP4 (RDA Green Karst)	Slovenia	23. 1. 2018	Slovenian Forestry Institute Večna pot 2 1000 Ljubljana	50
2	PP3 (SFI) PP4 (RDA Green Karst)	Slovenia	2. 3. 2018	Gostišče KA-RA Radohovska pot 5 6257 Pivka	45
3	PP3 (SFI) PP4 (RDA Green Karst)	Slovenia	21. 4. 2018	Osnovna šola Žetale Čermožiše 45b 2287 Žetale	44
4	PP3 (SFI) PP4 (RDA Green Karst)	Slovenia	21.6.2018	Slovenian Forest Service Večna pot 2 1000 Ljubljana	20
5	PP3 (SFI) PP4 (RDA Green Karst)	Slovenia	15. 11. 2018	Slovenian Forestry Institute Večna pot 2 1000 Ljubljana	60
6					

2 TRAINING REPORTS

2.1 Training no. 1

2.1.1 Technical report

Pilot Area	Pivka lakes, Škocjan caves Regional Park		
Event title	IZOBRAŽEVANJE O RABI LESA V ENERGETSKE NAMENE /		
Lvent title	TRAINING ON THE USE OF WOOD FOR ENERGY PURPOSES		
Involved partner	PP3 Slovenian Forestry Institute		
involved partilei	PP4 RDA Green Karst		
Responsible partners	Slovenian Forestry Institute, RDA Green Karst		
Location	Slovenian Forestry Institute, Večna pot 2, 1000 Ljubljana, Slovenia		
Date	23. 1. 2018		

No. of participants	50
Target groups	Ministry representatives; agriculture, forestry and energy consultants; representatives of local communities and wood fuels producers; other relevant stakeholders.
Trainers/speakers	8 speakers: - Dr. Nike Krajnc (SFI) - Vanja Primožič (SFS) - Matjaž Harmel (ZaVita) - Veronika Valentar (KGZS Zavod Maribor) - Peter Prislan (SFI) - Ivan Benčina (Municipality of Loški potok) - Primož Vavpetič (Jožef Stefan Institute) - Matevž Triplat (SFI)
Training materials	 PPT presentations: POTENTIALS, PRODUCTION AND USE OF WOOD BIOMASS -

COMBUSTION PLANTS

- TOOLS TO SUPPORT FOREST MANAGEMENT
- 2. Dissemination material:
- ForBioEnergy brochure
- ForBioEnergy Roll-up
- 3. Evaluation questionnaire with the chapter about problematic regarding to wood fuels.

The main objective was transfer of the knowledge and experiences about biomass and wood fuels to experts, professionals and decisionmakers.

The intention of the 1st training course was to show the biomass value, the state and potentials regarding the biomass production and the use of biomass for heating in Slovenia (1st lecture). The next lectures were about protected areas, the extraction of biomass from protected areas and a demonstration of good and bad practices from foreign countries in Europe; about funding opportunities and about providing quality wood fuels. Municipality Loški potok showed an example of good practice - a remote heating system on wood biomass and how they deal with the problem of pollution with solid particles.

Report on training

The duration of a training course was approximately 5 hours, it was consisted of 8 lectures. After every lecture there was a short discussion, mainly questions and answers. At the end of the program an active discussion followed.

Participants were mainly from public, educational, state and local institutions, energy companies, wood fuels production companies and wood processing companies.

The training course was a good opportunity for social networking and exchanging the information and knowledge, both for us and for the participants.

On the training we had synergies with other projects (Veronika Valentar, project leader of Interreg project COMPOSE had a lecture and Vanja Primožič, representative of Slovenia Forest Service, had a lecture in the frame of Interreg project BIO4ECO).

Feedback from participants

At the end of the program, participants completed the evaluation questionnaire with the chapter on wood fuels and biomass, where they gave their opinion on the wood fuels topic.

Based on the questionnaire, which 35 participants answered, they

evaluated the training course as very well. Ranging from 1 to 5 (where 1 is very bad and 5 is very good), the training course program was evaluated with a grade 4.4; presentations 4.2 and the usefulness of information they received with a grade 4.0.

The questionnaire was also consisted of a part regarding to wood fuels and biomass. The participants evaluated statements with grades from 1 to 5 (where 1 is "I completely disagree" and 5 is "I completely agree"). Here are the results:

- 1. Most of the participants agree with the claim that capacities for production of wood chips in Slovenia are appropriate (the average grade is 3.7).
- 2. Most of the participants are neutral (they don't have an opinion) about the claim "Capacities for production of wood pellets in Slovenia are appropriate" (the average grade is 3.1).
- 3. Most of the participants agree that creating certificates or trademarks for wood fuels is the right way to promote domestic producers (the average grade is 4.2).
- 4. Participants are mostly neutral about next claim "Lack of appropriate certificates (ENplus, DINplus,...) is one of the major problems in sales on the domestic and foreign markets (the average grade is 3.4).
- 5. Participants mostly agree with the state "Enforcing the S4Q" brand for wood chips is the right way to promote quality wood chips produced in Slovenia" (the average grade is 4.2).
- 6. Most of the participants agree that collecting wood fuel prices is a practical tool for monitoring the situation on the market (the average grade is 4.1).
- 7. Opinions on the state: "The policy of promoting larger district heating system is appropriate" are opposing. Some of the participants agree with the state and some don't (the average grade is 3.0).
- 8. Participants mostly agree that the use of wood fuels causes a problem of air pollution with PM10 particles (the average grade is 3.7).
- 9. Most of the participants agree that Slovenian consumers are not aware of the importance of wood fuels quality (average grade is 4.1).
- 10. Most of the participants agree that the policy on the use of wood biomass is indecisive (average grade is 4.2).

2.1.2 Attachments

EVENT AGENDA (invitation, program)

Invitation:







Vabimo vas na

IZOBRAŽEVANJE O RABI LESA V ENERGETSKE NAMENE - STANJE IN IZZIVI ZA PRIHODNOST

Izobraževanje bo potekalo v torek 23.1.2018 v dvorani Gozdarskega inštituta Slovenije na Večni poti 2, 1000 Ljubljana.

Po zadnjih ocenah v energetske namene letno porabimo več kot 2 milijona ton lesa. Les se najpogosteje uporablja v obliki polen, sledijo lesni peleti in sekanci. Lesna goriva ostajajo v Sloveniji konkurenčna goriva, zato povpraševanje narašča. Povpraševanju sledi tudi ponudba. Na nadaljnji razvoj področja vplivajo tako različne, velikokrat nasprotujoče, politike, kot tudi stanje na trgu energentov.

Glavni namen izobraževania ie:

- 1. Predstaviti stanje na področju pridobivanja, predelave in rabe lesnih goriv v Sloveniji in širše
- 2. Predstaviti različne politike v podporo rabi lesne biomase
- 3. Predstaviti prednosti in slabosti rabe lesne biomase v zavarovanih območjih
- 4. Predstaviti različne ideje, ki lahko prispevajo k povečevanju učinkovitega pridobivanja, predelave in rabe lesne biomase

Izobraževanje bo predvidoma potekalo od 9:00 do 13:00.

Na izobraževanje so vabljeni predstavniki ministrstev, svetovalci iz področja kmetijstva, gozdarstva in energetike, predstavniki lokalnih skupnosti in drugi relevantni deležniki. Zato bo pomemben del časa namenjen aktivni razpravi med udeleženci in razpravljavci oziroma predstavniki ministrstev.

Podrobnejši program bo posredovan v naslednjih dneh.

Izobraževanje je brezplačno za vse udeležence. Zaradi lažje organizacije pa prosimo za predčasno najavo udeležbe na tina.iemec@gozdis.si ali kristina.sever@gozdis.si.

Vljudno vabljeni,

Dr. Nike Krajnc (Gozdarski inštitut Slovenije) in Andrej Grum (Zavod za gozdove Slovenije)











Program:







Vabimo vas na

IZOBRAŽEVANJE O RABI LESA V ENERGETSKE NAMENE-STANJE IN IZZIVI ZA PRIHODNOST

Izobraževanje bo potekalo v torek, 23. 1. 2018, v dvorani Gozdarskega inštituta Slovenije na Večni poti 2, 1000 Ljubljana.

Po zadnjih ocenah v energetske namene letno porabimo več kot 2 milijona ton lesa. Les se najpogosteje uporablja v obliki polen, sledijo lesni peleti in sekanci. Lesna goriva ostajajo v Sloveniji konkurenčna goriva, zato povpraševanje narašča. Povpraševanju sledi tudi ponudba. Na nadaljnji razvoj področja vplivajo tako različne, velikokrat nasprotujoče, politike, kot tudi stanje na trgu energentov.

Okvirni prograi	m posveta
8:30 - 9:00	Prihod udeležencev
9:00 - 9:20	Otvoritev dogodka
9:20 - 9:40	Potenciali, predelava in raba lesne biomase – danes in v prihodnje (GIS)
9:40 - 10:00	Izzivi trajnostne oskrbe z lesno biomaso (ZGS)
10:00 - 10:30	Zavarovana območja in raba lesne biomase – prednosti, slabosti in tuje izkušnje (ZAVITA d.o.o.)
10:30 - 11:00	Odmor za kavo
11:00 - 11:20	Možnosti financiranja, ki jih ponuja Program razvoja podeželja (KGZ Maribor)
11:20 - 11:40	Zagotavljanje kakovosti lesnih goriv (GIS)
11:40 - 12:00	Iskanje rešitev za problem kakovosti zraka v Loškem potoku (Ivan Benčina, župan Loškega potoka)
12:00 - 12:15	Predstavitev filtra trdih deloev za male kurilne naprave (US)
12:15 - 12:35	Orodja v podporo gospodarjenju z gozdom (GIS)
12:35 - 13:00	Razprava
13:00	Pogostitev udeležencev

Na izobraževanje so vabljeni predstavniki ministrstev, svetovalci iz področja kmetijstva, gozdarstva in energetike, predstavniki lokalnih skupnosti, predstavniki podjetij za proizvodnjo lesnih goriv in drugi relevantni deležniki. Zato bo pomemben del časa namenjen aktivni razpravi med udeleženci in razpravljavci oziroma predstavniki ministrstev.

Izobraževanje je brezplačno za vse udeležence. Zaradi lažje organizacije pa prosimo za predčasno najavo udeležbe na tina.iemec@gozdis.si ali kristina.sever@gozdis.si.

Vljudno vabljeni,

dr. Nike Krajnc (Gozdarski inštitut Slovenije) in Andrej Grum (Zavod za gozdove Slovenije)











EVALUATION QUESTIONNAIRE





KAKO OCENJUJETE SPODAJ NAVEDENE TRDITVE OZIROMA OPREDELJENE PROBLEME POVEZANE Z GOZDNO LESNIMI VERIGAMI?

Vsako TRDITEV oz. PROBLEM ocenite Z VIDIKA VAŠE DEJAVNOSTI (1 – popolnoma nepomembno do 5 – zelo pomembno)

A: LESNA GORIVA

1 – Se popolnoma ne strinjam/Popolnoma nepomembno; 2 – Se ne strinjam/Nepomembno; 3 – Se niti ne strinjam niti strinjam /Niti nepomembno niti pomembno; 4 – Se strinjam /Pomembno; 5 – Se popolnoma strinjam /Zelo pomembno

Kako ocenjujete naslednje trditve		- Pri vsak o stopnjo			
Kapacitete za proizvodnjo sekancev v Sloveniji so ustrezne	1	2	3	4	5
Kapacitete za proizvodnjo peletov v Sloveniji so ustrezne	1	2	3	4	5
Oblikovanje certifikatov ali tržnih znamk za lesna goriva je prava pot za promocijo domačih proizvajalcev	1	2	3	4	5
Pomanjkanje ustreznih certifikatov (ENplus, DINplus,) je eden večjih problemov pri prodaji na domačem in tujem trgu	1	2	3	4	5
Uveljavljanje tržne znamke S4Q za sekance je prava pot za promocijo kakovostnih sekancev proizvedenih v Sloveniji	1	2	3	4	5
Zbiranje cen lesnih goriv je praktično orodje za spremljanje razmer na trgu	1	2	3	4	5
Politika spodbujanja večjih daljinskih sistemov ogrevanja je ustrezna	1	2	3	4	5
Raba lesnih goriv povzroča problem onesnaževanja zraka z delci PM10	1	2	3	4	5
Slovenski potrošniki niso ozaveščeni o pomenu kakovosti Iesnih goriv	1	2	3	4	5
Politika na področju rabe lesne biomase je neodločna	1	2	3	4	5





B: GOZDARSTVO, SUROVINA, TRG Z LESOM

1 – Se popolnoma ne strinjam/Popolnoma nepomembno; 2 – Se ne strinjam/Nepomembno; 3 – Se niti ne strinjam niti strinjam /Niti nepomembno niti pomembno; 4 – Se strinjam /Pomembno; 5 – Se popolnoma strinjam /Zelo pomembno

Kako oceniujete naslednje trditve		Ocena – Pri vsakem vprašanju obkrožite ustrezno stopnjo strinjanja s trditvijo				
Vrednotenje gozdarskih podjetij je koristno	1	2	3	4	5	
Spremljanje cen storitev v gozdarstvu prispeva k večji transparentnosti trga	1	2	3	4	5	
Spletna orodja pripomorejo k optimizaciji gozdarskih del	1	2	3	4	5	
Politika združevanja majhnih lastnikov gozdov ni dala želenih rezultatov	1	2	3	4	5	
Brez tujih investicij večji obseg predelave lesa v Sloveniji ni možen	1	2	3	4	5	
Novoustanovljeno državno podjetje pozitivno vpliva na razvoj lesne industrije v Sloveniji	1	2	3	4	5	
Nov način gospodarjenja z državnimi gozdovi je okrepil trg gozdarskih storitev (pojav novih podjetij)	1	2	3	4	5	

Na koncu vas prosimo, da odgovorite še na naslednja vprašanja:

Kako ocenjujete današnje izobraževanje	Ocena – Pri vsakem vprašanju obkr ustrezno stopnjo zadovoljstva		krožite		
Program izobraževanja		2	3	4	5
Predstavitve predstavljene na izobraževanju		2	3	4	5
Pridobljene informacije so nove in uporabne	1	2	3	4	5

Pod katero interesno skupino spadate (obkrožite ustrezno – glede na glavno dejavnost)?

x	Gozdarsko podjetje (zasebno, državno)
×	Lesno predelovalno / pohištveno podjetje
x	Proizvajalec / prodajalec lesnih goriv (polena, sekanci, peleti)
x	Izobraževalna / raziskovalna inštitucija
×	Javni zavod / interesno združenje (ZGS, KGZS, GZS, OZS)
×	Državna / lokalna inštitucija (Ministrstva, SKZG, inšpekcija)
x	Podjetje za odkup in prodajo lesa
x	Proizvajalec / prodajalec strojev in strojne opreme
x	Energetsko podjetje
x	Drugo (študent, lastnik gozda, upokojenec)

Hvala za sodelovanje.

OTHERS (media reports: newspapers, web page)

Facebook invitation:



Gozdarski inštitut Slovenije - Oddelek za gozdno tehniko in *** ekonomiko

Objavil Tina Jemec IVI - 18. januar ob 11:09 - 6

Ponovno vabljeni na IZOBRAŽEVANJE O RABI LESA V ENERGETSKE NAMENE - stanje in izzivi za prihodnost.

Izobraževanje bo potekalo v torek 23. januarja 2018 v dvorani Gozdarskega inštituta Slovenije od 9. do 13. ure.

Izobraževanje je brezplačno za vse udeležence. Vabilo najdete na spodnji fotografiji.... Prikaži več



The news about the training is posted on Slovenian Forestry Institute web page. All pdf presentations of lectures are available to download.



The article about the 1st training course - TRAINING ON THE USE OF WOOD FOR ENERGY PURPOSES, will be published in professional magazine EGES (energy, economy and ecology).

2.2 Training no. 2

2.2.1 Technical report

Pilot Area	Pivka lakes, Škocjan caves Regional park			
Event title	PREDNOSTI IN SLABOSTI PRIDOBIVANJA LESNE BIOMASE IZ GOZDOV			
Lvent title	THREATS AND BENEFITS OF FOREST BIOMASS EXTRACTION			
Involved partner	PP3 Slovenian Forestry Institute			
Involved partner	PP4 RDA Green Karst			
Responsible partners	Slovenian Forestry Institute, RDA Green Karst			
Location	Gostišče KA-RA, Radohovska pot 5, 6257 Pivka, Slovenia			
Date	2. 3. 2018			

No. of participants	45
Target groups	Ministry representatives; agriculture, forestry and energy consultants; representatives of local communities and wood fuels producers; local public authority; forest owners; other relevant stakeholders.
Trainers/speakers	4 speakers: - Kristina Sever (SFI) - Darja Kocjan (SFI) - Matjaž Harmel (ZaVita) - Dr. Nike Krajnc (SFI)
Training materials	 PPT presentations: WOOD BIOMASS MARKET IN SLOVENIA THEORETICAL AND ACTUAL MARKET POTENTIALS OF LOWER QUALITY WOOD THREATS AND BENEFITS OF FOREST BIOMASS EXTRACTION IN PROTECTED AREAS INTERACTIVE WEB TOOLS IN THE FIELD OF FORESTRY OPTIMIZATION Dissemination material: ForBioEnergy brochure ForBioEnergy Roll-up Evaluation questionnaire with the chapter about problematic regarding to forestry in general, wood fuels and wood

market.

(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 purpose of the 2nd training was to present the possible threats and benefits of forest biomass harvesting/extraction. The lectures were focused on the situation of wood biomass market in Slovenia, market potentials and by that the opportunities for the development of the local area. The purpose was also to present threats and benefits of forest biomass extraction. The assessment of threats and benefits on the real case of Škocjanske caves Regional park was presented (D.3.5.1.).

Report on training

45 participants took part in the 2nd training. The invitation was sent to different stakeholders, including policy and decision makers, from Pivka and Škocjanske jame pilot area, but mostly forest owners responded. Forest owners are an important actor in the field of biomass extraction, since they have their forests in the protected area and are actively involved in forest management. Most of them are united in work group called "strojni krožek". This type of association provides mechanical services among farmers, takes care of education, networking and joint appearance on the market in agriculture and forestry. When planning next trainings, we will consider the big share of forest owners in the 2nd training and will be focus more on other stakeholders (policy and decision makers, sectoral agencies, local and regional public authority, business support organisation and others).

The duration of the training course was approximately 4 hours, it was consisted of 4 lectures. After every lecture there was a short discussion, mainly questions and answers. At the end of the program an active discussion followed. Since the participants were mainly forest owners the discussion went more into practical direction what can they do in practice when facing different threats and barriers regarding to forest biomass extraction in protected areas.

The training course was a good opportunity for social networking and exchanging the information and knowledge among forest owners and other participants.

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 program, 33 participants completed the evaluation questionnaire with the chapters on wood fuels, biomass, forestry, and wood market where they gave their opinion on the topic.

From 33 participants 26 belong to interest group "other" (forest owner, student, retiree) - from the presence list we evaluated they all belong to group "forest owners". 4 participants belong to a group "educational/research institution. 1 participant belongs to a group "wood fuel manufacturer/seller" and 2 participants did not answer the question regarding the interest group.

Based on the questionnaire participants evaluated the training course as very well. Ranging from 1 to 5 (where 1 is very bad and 5 is very good), the training course program was evaluated with a grade 4.0; presentations 4.1 and the usefulness of information they received with a grade 4.2.

Feedback from participants

The questionnaire was consisted of two parts - first part regarding to wood fuels and second part to forestry and wood market. The participants evaluated statements with grades from 1 to 5 (Likart scale):

- 1 Completely disagree
- 2 Disagree
- 3 Neither agree nor disagree
- 4 Agree
- 5 Completely agree

WOOD FUELS:

1. CREATING CERTIFICATES OR TRADEMARKS FOR WOOD FUELS IS THE RIGHT WAY TO PROMOTE DOMESTIC PRODUCERS

Most of the participants are neutral about this claim (the average grade is 3.3).

GRADES	1	2	3	4	5
% of participants	12%	3%	48%	15%	21%

2. LACK OF APPROPRIATE CERTIFICATES (ENPLUS, DINPLUS,...) IS ONE OF THE MAJOR PROBLEMS IN SALES ON THE DOMESTIC AND FOREIGN MARKETS

Participants are mostly neutral about this claim (the average grade is 2.9).

GRADES	1	2	3	4	5
% of participants	6%	18%	52%	24%	0%

3. COLLECTING WOOD FUEL PRICES IS A PRACTICAL TOOL FOR MONITORING THE SITUATION ON THE MARKET

Most of the participants are neutral about this claim (the average grade is 3.5).

GRADES	1	2	3	4	5
% of participants	0%	10%	48%	26%	16%

4. USE OF WOOD FUELS CAUSES A PROBLEM OF AIR POLLUTION **WITH PM10 PARTICLES**

On average participants are mostly neutral about this claim (average grade is 2.7).

GRADES	1	2	3	4	5
% of participants	22%	19%	31%	19%	9%

5. SLOVENIAN CONSUMERS ARE NOT AWARE OF THE IMPORTANCE OF WOOD FUELS QUALITY

Most of the participants agree that Slovenian consumers are not aware of the importance of wood fuels quality (average grade is 3.7).

GRADES	1	2	3	4	5
% of participants	3%	9%	27%	33%	27%

6. THE POLICY ON THE USE OF WOOD BIOMASS IS INDECISIVE On average participants are mostly neutral about this claim (average grade is 3.0).

GRADES	1	2	3	4	5
% of participants	15%	15%	33%	27%	9%

FORESTRY AND WOOD MARKET:

1. RATING OF FORESTRY COMPANIES IS BENEFICIAL

Participants mostly agree or are neutral about this statement (the average grade is 3.5).

GRADES	1	2	3	4	5
% of participants	13%	3%	25%	44%	16%

2. MONITORING THE PRICE OF FORESTRY SERVICES CONTRIBUTES TO GREATER MARKET TRANSPARENCY

On average participants agree that monitoring the price of forestry services contributes to greater market transparency (average grade is 3.8).

GRADES	1	2	3	4	5
% of participants	0%	12%	24%	36%	27%

3. INTERACTIVE WEB TOOLS HELP OPTIMIZE FORESTRY WORK On average participants mostly agree that interactive web tools help optimize forestry work (average grade is 3.7).

GRADES	1	2	3	4	5
% of participants	0%	13%	31%	34%	22%

4. THE SMALL FOREST OWNERS INTEGRATION POLICY DID NOT GIVE THE DESIRED RESULTS

On average participants are mostly neutral about this claim (average grade is 3.0).

GRADES	1	2	3	4	5
% of participants	22%	3%	41%	22%	13%

5. THE RECENTLY ESTABLISHED STATE-OWNED FORESTRY COMPANY (SIDG) POSITIVELY INFLUENCES THE DEVELOPMENT OF THE WOOD INDUSTRY IN SLOVENIA

Participants mostly disagree on this statement (average grade is 2.5).

GRADES	1	2	3	4	5
% of participants	24%	27%	27%	15%	6%

2.2.2 Attachments

(Scan documents and attach them in certain chapters as photos):

EVENT AGENDA (invitation, program)

Invitation:









Vabimo vas na izobraževanje

»PREDNOSTI IN SLABOSTI PRIDOBIVANJA LESNE BIOMASE IZ GOZDOV«

Izobraževanje bo potekalo v petek 2. 3. 2018 v gostišču KA-RA, <u>Radohovska</u> pot 5, 6257 Pivka

Lesna goriva so v Sloveniji najbolj pogosto uporabljana oblika goriv. Po zadnjih ocenah v energetske namene letno porabimo več kot 2 milijona ton lesa. Les se najpogosteje uporablja v obliki polen, sledijo lesni geleti in sekanci. Več kot polovica gospodinjstev, ki se ogrevajo na les je samooskrbnih, les pridobijo sami, iz svojih gozdov. Pri pridobivanju lesne biomase iz gozdov je potrebno ravnati odgovorno, predvsem pa se moramo zavedati nevarnosti in koristi, ki jih lahko s pridobivanjem povzročimo.

Glavni namen izobraževanja ie:

- 1. Predstaviti stanje na področju pridobivanja lesnih goriv
- 2. Predstaviti nevarnosti in koristi s katerimi se soočamo pri pridobivanju lesne biomase iz gozdov
- 3. Predstaviti možnosti za razvoj v zavarovanih območjih
- 4. Predstaviti različne ideje, ki lahko prispevajo k povečevanju učinkovitega pridobivanja, predelave in rabe lesne biomase

Izobraževanje bo predvidoma potekalo od 14:00 do 18:00.

Na izobraževanje so vabljeni predstavniki lokalne skupnosti, svetovalci iz področja kmetijstva, gozdarstva in energetike, predstavniki proizvajalcev lesnih goriv in drugi relevantni deležniki. Zato bo pomemben del časa namenjen aktivni razpravi med udeleženci in razpravljavci oziroma predstavniki ministrstev.

Podrobnejši program bo posredovan v naslednjih dneh.

Izobraževanje je brezplačno za vse udeležence. Zaradi lažje organizacije pa prosimo za predčasno najavo udeležbe na tina.jemec@gozdis.si ali kristina.sever@gozdis.si.

Vljudno vabljeni,

Dr. Nike Krajnc, Gozdarski inštitut Slovenije

Program:









Vabimo vas na izobraževanje

»PREDNOSTI IN SLABOSTI PRIDOBIVANJA LESNE BIOMASE IZ **GOZDOV«**

Izobraževanje bo potekalo v petek 2. 3. 2018 v gostišču KA-RA, Radohovska pot 5, 6257 Pivka

Lesna goriva so v Sloveniji najbolj pogosto uporabljana oblika goriv. Po zadnjih ocenah v energetske namene letno porabimo več kot 2 milijona ton lesa. Les se najpogosteje uporablja v obliki polen, sledijo lesni peleti in sekanci. Več kot polovica gospodinjstev, ki se ogrevajo na les je samooskrbnih, les pridobijo sami, iz svojih gozdov. Pri pridobivanju lesne biomase iz gozdov je potrebno ravnati odgovorno, predvsem pa se moramo zavedati nevarnosti in koristi, ki jih lahko s pridobivanjem povzročimo.

```
Okvirni program posveta
14:00 - 14:15 Prihod udeležencev
14:15 - 14:30 Otvoritev dogodka
14:30 – 15:00 Trg z lesno biomaso v Sloveniji (GIS)
15:00 - 15:30 Teoretični in dejanski tržni potenciali lesa slabše kakovosti (GIS)
15:30 - 16:00 Odmor za kavo
16:00 – 16:30 Grožnje in potenciali povečane rabe biomase v zavarovanih območjih (ZAVITA d.o.g.)
16:30 - 17:00 Možnosti financiranja, ki jih ponuja Program razvoja podeželja (KGZ Maribor)
17:00 - 17:30 Razprava
17:30 – 18:00 Pogostitev udeležencev
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Na izobraževanje so vabljeni predstavniki ministrstev, svetovalci iz področja kmetijstva, gozdarstva in energetike, predstavniki lokalnih skupnosti, predstavniki podjetij za proizvodnjo lesnih goriv in drugi relevantni deležniki. Zato bo pomemben del časa namenjen aktivni razpravi med udeleženci in razpravljavci oziroma predstavniki ministrstev.

Izobraževanje je brezplačno za vse udeležence. Zaradi lažje organizacije pa prosimo za predčasno najavo udeležbe na tina.jemec@gozdis.si ali kristina.sever@gozdis.si.

Vljudno vabljeni,

dr. Nike Krajnc (Gozdarski inštitut Slovenije)

EVALUATION QUESTIONAIRE





KAKO OCENJUJETE SPODAJ NAVEDENE TRDITVE OZIROMA OPREDELJENE PROBLEME POVEZANE Z GOZDNO LESNIMI VERIGAMI?

Vsako TRDITEV oz. PROBLEM ocenite Z VIDIKA VAŠE DEJAVNOSTI

1 - Se popolnoma ne strinjam/Popolnoma nepomembno; 2 - Se ne strinjam/Nepomembno; 3 – Se niti ne strinjam niti strinjam /Niti nepomembno niti pomembno; 4 – Se strinjam /Pomembno; 5 – Se popolnoma strinjam /Zelo pomembno

A: LESNA GORIVA

Kako ocenjujete naslednje trditve	Ocena – Pri vsakem vprašanju obkrožite ustrezno stopnjo strinjanja s trditvijo					
Oblikovanje certifikatov ali tržnih znamk za lesna goriva je prava pot za promocijo domačih proizvajalcev	1	2	3	4	5	
Pomanjkanje ustreznih certifikatov (ENplus, DINplus,) je eden večjih problemov pri prodaji na domačem in tujem trgu	1	2	3	4	5	
Zbiranje cen lesnih goriv je praktično orodje za spremljanje razmer na trgu	1	2	3	4	5	
Raba lesnih goriv povzroča problem onesnaževanja zraka z delci PM10	1	2	3	4	5	
Slovenski potrošniki niso ozaveščeni o pomenu kakovosti lesnih goriv	1	2	3	4	5	
Politika na področju rabe lesne biomase je neodločna	1	2	3	4	5	

B: GOZDARSTVO, SUROVINA, TRG Z LESOM

Kako ocenjujete naslednje trditve	Ocena – Pri vsakem vprašanju obkrož ustrezno stopnjo strinjanja s trditvijo				
Vrednotenje gozdarskih podjetij je koristno	1	2	3	4	5
Spremljanje cen storitev v gozdarstvu prispeva k večji transparentnosti trga	1	2	3	4	5
Spletna orodja pripomorejo k optimizaciji gozdarskih del	1	2	3	4	5
Politika združevanja majhnih lastnikov gozdov ni dala želenih rezultatov	1	2	3	4	5
Novoustanovljeno državno podjetje pozitivno vpliva na razvoj lesne industrije v Sloveniji	1	2	3	4	5

(obrni list)





Na koncu vas prosimo, da odgovorite še na naslednja vprašanja:

Kako ocenjujete današnje izobraževanje		Ocena – Pri vsakem vprašanju obkrožite ustrezno stopnjo zadovoljstva (1 – zelo nezadovoljen; 5 – zelo zadovoljen)			
Program izobraževanja	1	2	3	4	5
Predstavitve predstavljene na izobraževanju	1	2	3	4	5
Pridobljene informacije so nove in uporabne	1	2	3	4	5

Pod katero interesno skupino spadate?		
(obkro	(obkrožite ustrezno – glede na glavno dejavnost)	
x	Gozdarsko podjetje (zasebno, državno)	
х	Lesno predelovalno / pohištveno podjetje	
x	Proizvajalec / prodajalec lesnih goriv (polena, sekanci, peleti)	
x	Izobraževalna / raziskovalna inštitucija	
х	Javni zavod / interesno združenje (ZGS, KGZS, GZS, OZS)	
x	Državna / lokalna inštitucija (Ministrstva, SKZG, inšpekcija)	
x	Podjetje za odkup in prodajo lesa	
x	Proizvajalec / prodajalec strojev in strojne opreme	
х	Energetsko podjetje	
x	Drugo (študent, lastnik gozda, upokojenec)	

Hvala za sodelovanje.

2.3 Training no. 3

2.3.1 Technical report

Pilot Area	Pivka lakes, Škocjan caves Regional park
Event title	3. Izobraževanje v okviru projekta ForBioEnergy v Žetalah
Involved partner	PP3 Slovenian Forestry Institute
	PP4 RDA Green Karst
Responsible partners	Slovenian Forestry Institute, RDA Green Karst
Location	Osnovna šola Žetale - Čermožiše 45 b, 2287 Žetale
Date	21. 4. 2018

No. of participants	44
Target groups	Local and regional public authority; Ministry representatives; agriculture and forestry consultants; representatives of local communities and wood fuels producers; forest owners; other relevant stakeholders.
Trainers/speakers	4 speakers: - Dunja Mahne (RDA Green Karst) - Matjaž Harmel (ZaVita) - Borislav Klemenčič (SFS) - Marjan Dolenšek (SFI)
Training materials	 PPT presentations: Administrative and technical barriers preventing greater use of biomass from protected areas for energy purposes (RDA Green Karst) Effect of wood biomass extraction on habitat types and protected species (Zavita d.o.o.) Underused forest wood potentials from private forests in forest management area Lešje (SFS) Safe work in forest; tractor cabins, protective equipment, transport and excise refund (SFI) Extraction and processing of wood for energy purposes (SFI) Practical tools for forestry optimization (SFI) Dissemination material: ForBioEnergy brochure ForBioEnergy Roll-up

(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 training was organised as a part of every year event - Forest feast Žetale. Practical part was exhibition and presentation of forest technology. Theoretical part was organized as ForBioEnergy training, which was dedicated to present key barriers we are facing in Slovenia regarding to forestry and wood fuels and possible solutions for improvement of situation. A draft of an Action plan for a new regulatory framework and permit route in the protected areas was also presented as one of the solutions.

The duration of this training course was 3 hours (from 14.00 to 17.00) and it was consisted from 6 lectures. At the beginning a representative of the "machinery ring association" Žetalanec had an introductory speech. Marjan Dolenšek from SFI moderated training course. At the end of the programme discussion followed.

Report on training

The lectures were focused on the wood biomass topic - the extraction and use, as well as obstacles that inhibit the development of biomass sector. Wood fuels remain competitive fuel in Slovenia. According to recent estimates, more than 2 million tons of wood are consumed annually for energy purposes. Wood is most commonly used in the form of fire wood, followed by wood pellets and wood chips. The development of biomass is influenced by various barriers and often contradictory policies.

The main purpose of the training was to:

- 1. present the situation in the field of extraction, processing and use of wood fuels in Slovenia and wider
- 2. present restrictions and barriers that hamper the development of biomass sector
- 3. identify possible solutions to eliminate barriers and to present a draft of the Action plan
- 4. To present and gather ideas that can contribute to efficient extraction, processing and use of wood biomass.

44 participants took part in the 3rd training. Participants were mostly forest owners, members of "machinery ring association"

Žetalanec, foresters, agricultural publishing house Kmetovalec, sellers and manufacturers of forestry technology and equipment (Krpan, Tajfun,...). The invitation was sent also to other stakeholders, who did not attend the event (Ministry and local public authority, Managers of local protected areas, wood fuel producers,...).

The "machinery ring association" Žetalanec unites forest owners and provides mechanical services among farmers and forest owners, takes care of education, networking and joint appearance on the market in agriculture and forestry. When planning next trainings, we will consider the big share of forest owners in the 2nd and 3rd training and will be focus more on other stakeholders (policy and decision makers, sectoral agencies, local and regional public authority, business support organisation and others).

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 programme a discussion followed. Participants mostly agree that non-active and small forest owners are a big problem in Slovenian forestry. About 80 % of all forest are owned by private forest owners. The average size is about 2.5 ha and it is further divided into several separate parcels.

Only 11 % of all forest owners own forest property which is bigger than 5 ha. Everyone else own properties which are small and usually fragmented. This makes forest management more difficult and expensive and it results in a low interest in forest management.

Feedback from participants

> The potential in Slovenian forest is not well spent and the goals in forest management plans are not realised. About half of the planned cut is not realised and stays in the forest. This represents on one hand the loss for forest owners and on the other the loss for the whole forest-wood-supply chain in the country.

> One solution could be connecting forest owners in associations, cooperatives or "machinery ring associations" such as "Strojni krožek Žetalanec". We already have some good examples in Slovenia where forest owners collaborate in associations. The next step could be establishing the cooperatives, so forest owners would be able to sell wood together to get better price.

One the other hand non-managed forest estates can present "ecocells" and shelters for some rare and endangered species and thus have a positive impact on forest biodiversity.

At the end every participant got the chance to evaluate the training and to expose what was the most useful knowledge they have gained. Approximately half of the group responded with positive feedback. The rest of the group did not answer. Participants were satisfied and interested in the topic. They actively participated in a discussion and evaluation. Some practical tips and knowledge were very useful for them and they were glad they got a chance to participate in the search for solution of key barriers.

2.3.2 Attachments

EVENT AGENDA (invitation, program)









Vabimo vas na

3. IZOBRAŽEVANJE PROJEKTA FORBIOENERGY V ŽETALAH

Izobraževanje bo potekalo v soboto 21.4.2018 v avli osnovne šole Žetale v Čermožišah 45 b, 2287 Žetale

Na predavanjih bo predstavljena tematika lesne biomase – pridobivanje in uporaba ter ovire, ki zavirajo razvoj omenjenega sektorja. Lesna goriva ostajajo v Sloveniji konkurenčna goriva. Po zadnjih ocenah v energetske namene letno porabimo več kot 2 milijona ton lesa. Les se najpogosteje uporablja v obliki polen, sledijo lesni peleti in sekanci. Na razvoj področja biomase vplivajo različne ovire in velikokrat nasprotujoče si politike. Predstavili bomo nekatere ključne ovire in možne rešitve ter osnutek akcijskega načrta za odpravo administrativnih ovir.

Glavni namen izobraževanja je:

- 1. Predstaviti stanje na področju pridobivanja, predelave in rabe lesnih goriv v Sloveniji in širše
- 2. Predstaviti omejitve in ovire, ki zavirajo razvoj sektorja biomase
- 3. Predstaviti možne rešitve za odpravo ovir in osnutek akcijskega načrta
- 4. Predstaviti ideje, ki lahko prispevajo k povečevanju učinkovitega pridobivanja, predelave in rabe lesne biomase

Izobraževanje bo potekalo v okviru Gozdarskega praznika Žetale od 14:00 do 17:00. Poleg predavanj si bo možno ogledati tudi razstavo gozdarske tehnike in prikaz delovanja.

Izobraževanje je brezplačno za vse udeležence. Zaradi lažje organizacije pa prosimo za predčasno najavo udeležbe na dunja@rra-zk.si ali kristina.sever@gozdis.si.

Vljudno vabljeni,

Dunja Mahne (RRA Zeleni kras) in Nike Krajnc (Gozdarski inštitut Slovenije).









Program izobraževanja:

14:00 – 14:15	Otvoritev in uvodni nagovor predstavnika strojnega krožka Žetalanec
14:15 – 14:45	Administrativne in tehnične ovire, ki ovirajo pridobivanje in rabo biomase iz zavarovanih območij (RRA Zeleni Kras)
14:45 – 15:15	$\label{thm:pridobivanjalesne} Vplivi\ pridobivanja\ lesne\ biomase\ na\ habitatne\ tipe\ in\ zavarovane\ vrste\ (Zavita\ d.o.o.)$
15:15 - 15:35	(Ne)izkoriščenost lesnih potencialov iz zasebnih gozdov v GGE Lešje (ZGS)
15:35 - 15.50	Odmor
15:50 - 16:10	Kabine, izredni prevozi, delo v gozdu, vračilo trošarine, del. Obleke (GIS)
16:10 - 16:20	Pridobivanje in predelava lesa v energetske namene (GIS)
16:20 - 16:40	Praktična orodja za optimizacijo gozdne proizvodnje (GIS)
16:40 - 17:00	Razprava in zaključni del

News about 3rd training in Žetale on SFI Facebook wall

3 Shares



News about 3rd training in Žetale on ForBioEnergy Facebook wall



News about 3rd training in Žetale on ForBioEnergy web page

https://forbioenergy.interreg-med.eu/news-events/events/detail/actualites/3rd-forbioenergytraining-and-forest-feast-zetale/























3RD FORBIOENERGY TRAINING AND FOREST FEAST ŽETALE

16/05/2018

The 3rd ForBioEnergy training was held in Žetale in the frame of every year forestry event – Forest feast Žetale.

Practical part was an exhibition and presentation of forest technology and competition in tree felling. Theoretical part was organized as ForBioEnergy training, which was dedicated to present key barriers we are facing in Slovenia regarding to forestry and wood fuels and possible solutions for improvement of the situation. A draft of an Action plan for a new regulatory framework and permit route in the protected areas was also presented as one of the solutions. Marjan Dolenšek (Slovenian Forestry Institute) and Dunja Mahne (RDA Green Karst) presented the ForBioEnergy project and mentioned topics.

44 participants took part in the 3rd training. Participants were mostly forest owners, members of society/work group Žetalanec, foresters, agricultural publishing house Kmetovalec and sellers and manufacturers of forestry technology and equipment.

Partners involved: PP3 and PP4





2.4 Training no. 4

2.4.1 Technical report

Pilot Area	Pivka lakes, Škocjan caves Regional park
Event title	Trenutni izzivi na področju oblikovanja strategij učinkovite rabe lesne biomase
	Challenges in the formulation of strategies for the efficient wood biomass use
Involved partner	PP3 Slovenian Forestry Institute
	PP4 RDA Green Karst
Responsible partners	Slovenian Forestry Institute, RDA Green Karst
Location	Zavod za gozdove Slovenije, Večna pot 2, 1000 Ljubljana
Date	21. 6. 2018

No. of participants	20	
Target groups	Local and regional public authority; Ministry representatives; agriculture and forestry consultants; representatives of local communities and wood fuels producers; educational institutions and other relevant stakeholders.	
Trainers/speakers	 Dr. Nike Krajnc (SFI) Mag. Uroš Habjan (Ministry of Infrastructure) Eva Harmel (ZaVita) Darja Kocjan (SFI) 	
Training materials	PPT presentations: 1. ForBioenergy: Wood production in protected areas in Mediteranean region 2. Promotion of efficient wood biomass use in Slovenia 3. Biomass districts in the protected areas of Park Pivka Intermittent Lakes and Škocjan caves Regional Park 4. Action plan for unblocking the barriers that inhibit the production and use of wood biomass from forests Dissemination material: - ForBioEnergy brochure - ForBioEnergy Roll-up	

(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 4th training within ForBioEnergy project was held in the premises of Slovenian Forest Service on June 21st, 2018. The topic of the training was focused on the efficient use of wood biomass, which involves different fields - from forestry, Infrastructure, production, etc. Therefore, we invited participants from different institutions: Ministries (Infrastructure; Agriculture, Forestry and Food), Slovenian Forest Service, Slovenian Forestry Institute, High school for forestry and woodscience, Biotechnical Faculty, ZaVita d.o.o., RDA Green Karst d.o.o., private company owners (Biomasa d.o.o., Gaj Les d.o.o., Linka d.o.o).

Every participant contributed an important part to discussion, with new ideas and their opinion. The title of the training was "Challenges in the formulation of strategies for the efficiency of **wood biomass use**". The main aims of the training were:

- Identification of key barriers that inhibit the effective wood biomass use
- Review of the effectiveness of instruments to promote the effective use of wood biomass
- Find ways to achieve greater social acceptability for the use of wood biomass

The goal of the training was to discuss about the state of wood biomass use in Slovenia and to consider possible ways to accelerate wood biomass use all over Slovenia. Different ideas came across and constructive debate followed.

The training started at 9.30 and lasted until 14.30. First, presentations regarding to use of wood biomass were presented. Presentations of participants were well implemented and were good starting point for beginning of the training.

Dr. Nike Krajnc (SFI) presented the ForBioEnergy project and problems regarding to wood production in protected areas in Slovenian Mediterranean region.

Uroš Habjan from Ministry for infrastructure gave use insight into plans for next years and presented realised plans. From 2009-2014 the government funded 16.4 million € for 1100 clients with heating district systems. New projects and plans are ready for the implementation, for years 2017-2020 8 million € will be provided for energetic purposes (heating systems on biomass).

Report on training

Eva Harmel (Zavita) presented and described the biomass district in project pilot area (Park Pivka Intermittent lakes and Škocjan caves Regional Park).

At the end of the first part Darja Kocjan (SFI) presented an Action plan for unblocking the barriers that hinder the use of wood biomass from forest (D 3.6.1).

Jurij Beguš (SFS) moderated the training. He presented methods for the active part of the training - group discussion. First, participants were divided into 5 groups. Then, we started with "H method"; every participant of the group had to evaluate the condition of wood biomass use in Slovenia (from 1 to 10 - bad to excellent condition) in his opinion. Than the groups wrote down reasons for not selecting higher or lower rating (pros and cons). For group work and ideas gathering post-it notes and poster was used. The ideas were merged in groups by similarities. In next step we decided on 4 different important facts that could contribute to more effective use of wood biomass. With method of pairwise comparison, the group determined the most important proposition for more effective use of wood biomass in Slovenia. After that, we made an action plan for chosen one. The action plan was how to realize our chosen fact for more effective wood biomass use (what, why, where, how, with whom, who will participate, when, how will we know?). Every group presented their ideas and Action plan to other groups.

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

After group work all groups presented their work and Action plan. All participants were involved in a discussion. Some ideas for accelerating wood biomass use in Slovenia were inventive and could someday be realized. We were discussing mostly about social acceptability of wood biomass use and determined that aging population occur lack of awareness for forests.

Feedback from participants

Participants were in a good mood and participated actively in a group discussion. Moderator summarized our action plans and asked about our opinion on accomplished training. All participants were satisfied with the work done. It was the first time for many participants to work with "H method".

A discussion within groups was well performed. It was good that there were participants from different institutions in every group, so we could discuss our different point of view and opinion on Slovenian wood biomass use. People from different institutions have different point of view on biomass use and some of them also have

some measures ready to implement. For example; Ministry of infrastructure have new projects and they plan to start with the implementation soon. Municipalities could be co-financed for transition to wood biomass heating. From 2009-2014 the Ministry allocated 16.4 million € for district heating systems and built 59388 m long of network for district system. All co-financed operations were worth 45.6 million €. Participants were glad to hear numbers from representative of authority. All participants were satisfied with the meeting and wouldn't change anything in organization of lecture.

2.4.2 Attachments

(Scan documents and attach them in certain chapters as photos):

EVENT AGENDA (invitation, program)









Vabilo

na delavnico, ki bo obravnavala trenutne izzive na področju oblikovanja strategij učinkovite rabe lesne biomase

Spoštovani!

Vabimo vas na delavnico s področja problematike učinkovite rabe lesne biomase v Sloveniji. Kljub prizadevanjem države učinkovita raba lesne biomase v energetske namene še vedno zaostaja za pričakovanji. Na delavnici bodo poudarki na naslednjih vsebinah:

- identifikacija bistvenih preprek, ki zavirajo učinkovito rabo lesne biomase,
- pregled uspešnosti inštrumentov za spodbujanje učinkovite rabe lesne biomase,
- iskanje načinov za doseganje večje socialne sprejemljivosti rabe lesne biomase.

Delavnica bo potekala v okviru projektov BIO4ECO in ForBioEnergy, v sejni dvorani Zavoda za gozdove Slovenije, Večna pot 2, 1000 Ljubljana, 2. nadstropje dne 21.6.2018.

Potekala bo po naslednjem dnevnem redu:

9.00 - 9.30	Zbor udeležencev
9.30 - 9.45	Uvodni pozdrav in predstavitev problematike (Jurij Beguš ZGS)
9.45 - 10.15	Predstavitev projekta ForBioEnergy (Nike Krajnc GIS)
10.15 - 10.45	Potenciali lesa slabše kakovosti v pilotnem območju (Eva Harmel, ZAVITA)
10.45 - 11.15	Predstavitev Akcijskega načrta za odpravo ovir, ki zavirajo pridobivanje in rabo
	lesne biomase iz gozdov (Darja Kocjan GIS)
11.15 - 12.10	Spodbujanje učinkovite uporabe lesne biomase v Sloveniji (Uroš Habjan MZI)
12.10 - 12.30	Odmor
12.30 - 14.00	Delavnica (Jurij Beguš ZGS)
	with March 1 and
14.00 - 14.30	Zaključki in diskusija
	Pogostitev

Prosimo vas, da vašo udeležbo prijavite ne e- naslov: vanja.primozic@zgs.si ali kristina.sever@gozdis.si, najkasneje do 18. 6.2018.

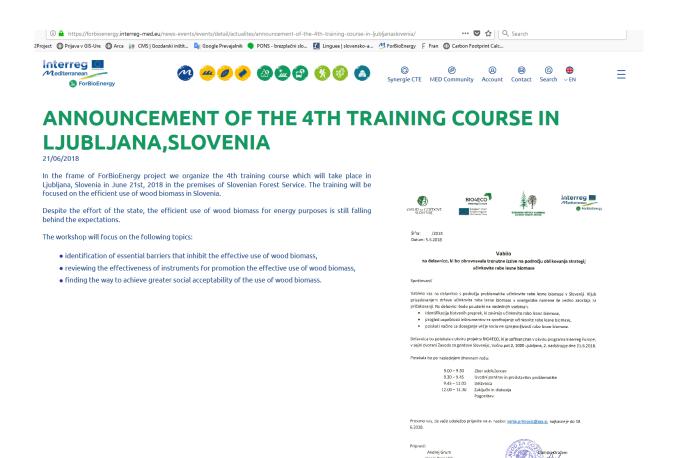
Pripravil:

Andrej Grum Vanja Primožič Damjan Oražem direktor

OTHERS (media reports: newspapers, web page)

Announcement of the training course on ForBioEnergy web page:

https://forbioenergy.interreg-med.eu/news-events/events/detail/actualites/announcement-of-the-4thtraining-course-in-ljubljanaslovenia/



News on ForBioEnergy web page about the training:

https://forbioenergy.interreg-med.eu/news-events/events/detail/actualites/4th-forbioenergytraining-challenges-in-the-formulation-of-strategies-for-the-efficient-wood-bioma/



4TH FORBIOENERGY TRAINING - CHALLENGES IN THE FORMULATION OF STRATEGIES FOR THE EFFICIENT WOOD **BIOMASS USE**

27/06/2018

On Thursday, 21 of June 2018, the 4th training organized in the frame of ForBioEnergy project was held in the premises of Slovenian Forest Service, Ljubljana, Slovenia. The training was focused on the following topics:

- · Identification of essential barriers that inhibit the effective wood biomass use
- $\bullet \ \ \text{Review of the effectiveness of instruments to promote the effective use of wood biomass}$
- · Finding ways to achieve greater social acceptability of the wood biomass use

ForBioEnergy project was presented to all participants. We talked about the barriers we are facing in the field of wood production in protected areas. Biomass potentials from managed forest and the Action plan for a new regulatory framework and permit route were also presented. During an active group work, we gave a critical opinion on the position of wood biomass use in Slovenia and discussed the proposed potential solutions for even more efficient use of wood biomass.

The training was attended by representatives of Slovenian Forestry Institute, Slovenian Forest Service, The Chamber of Agriculture and Forestry of Slovenia, Ministry of Economic development and Technology, Forestry high school, Ministry of Infrastructure, University of Ljubljana Biotechnical faculty, Biomasa d.o.o, Gaj Les d.o.o, Zavita, RDA Green Karst doo, Linka d.o.o.



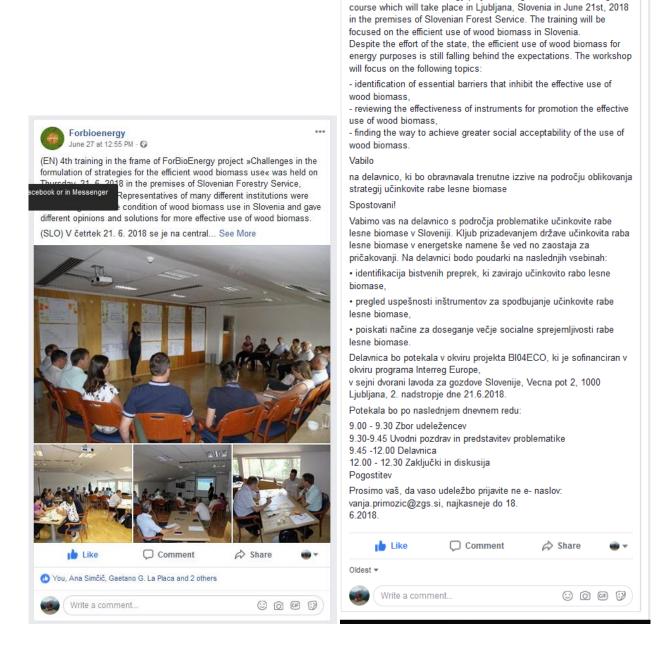


News and invitation about the training posted on SFI Facebook wall:





News and invitation of the training posted on ForBioEnergy Facebook wall:



Forbioenergy

In the frame of ForBioEnergy project we organize the 4th training

2.5 Training no. 5

2.5.1 Technical report

Pilot Area	Pivka lakes, Škocjan caves Regional park			
Event title	TRŽNO UVELJAVLJANJE OBNOVLJIVIH VIROV ENERGIJE IN PODPORA POVEČANI RABI LESNE BIOMASE			
	Market uptake of renewable resources and increase of wood biomass use			
Involved partner	PP3 Slovenian Forestry Institute			
	PP4 RDA Green Karst			
Responsible partners	Slovenian Forestry Institute, RDA Green Karst			
Location	Slovenian Forestry Institute, Večna pot 2, 1000 Ljubljana			
Date	15. 11. 2018			

No. of participants	60			
Target groups	Energy companies/agencies, Private forest owners Association, Slovenia Forest Service, Ministry representatives; agriculture, forestry and energy consultants; representatives of local communities and wood fuels producers; local public authority; forest owners; other relevant stakeholders.			
Trainers/speakers	Jože Prah (SFS) -Uroš Habjan (MZI) -Jože Jurša (MOP) -Kristina Sever (SFI) -Franz Moser (Bioenergie Service Gen. m. b. H.) -Peter Prislan (SFI) -Jure Čimžman (IJS) -Nike Krajnc (SFI)			
Training materials	 PPT presentations: Development of energy self-sufficent village Dole pr Litiji (Jože Prah) Establishment of district heating systems on wood biomass (Uroš Habjan) District heating systems for better air quality in Slovenia (Jože Jurša) Good practice example: Planning, optimization, quality management and operating DH (Franz Moser) Establishment of forest-wood processing chains in 			

- protected areas (Kristina Sever)
- 6. Importance of wood fuels quality (Peter Prislan)
- 7. Local semaphore of climate activities focusing on the energy independence of municipalities and presenting the situation today (Jure Čižman)
- 8. Potentials and possibilities for using wood biomass in Slovenia (Nike Krajnc)
- Dissemination material: Forbioenergy roll-up, Forbioenergy brochures
- Evaluation questionnaires

(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 major point of the 5th training was to present barriers, opportunities and benefits of market uptake of renewable resources and barriers of wood extraction in protected Mediterranean areas. There were many different topics exposed and arguments discussed. The purpose of the training was achieved with different experts confirming advantages and meaning of wood biomass use in heating systems (district, power plants). Market uptake of sustainable bioenergy (biomass) in Slovenia is obvious. After economic crisis in Slovenia, most people living in rural areas started to heat with biomass from their forest, also due to high prices of heating oil. Wood biomass should be used properly and in accordance with natural possibilities of forest. Very efficient systems are one with district heating systems which are selfsupplementing.

Report on training

60 participants took place in 5th training. Participants who were invited were representatives of Ministries, energy companies, representatives of forest owner's association, private forest owners, state forest company and private wood-processing companies. Also, students from University of Ljubljana were invited. All participants are important stakeholders, policy or decision makers or somehow differently involved in the topic and are important factor in topics related to extraction of wood, market uptake and supporting of wood processing chain.

Training lasted for about 5 hours with one short break at the middle of the programme. After each presentation questions of audience followed, and lectures discussed answers with askers. Participants were of different sectors, so questions were more specific to different fields (subsidies for boilers and heating plants, laws and acts, barriers and possible solutions for

extracting wood biomass in Mediterranean region). After all presentations group discussion followed and was also continuing during lunch. Training course was helpful for understanding barriers in the field of biomass use and production and for creating a wood-energy supply chain in protected areas in Slovenia and was a good opportunity for social networking and exchanging knowledge between participants.

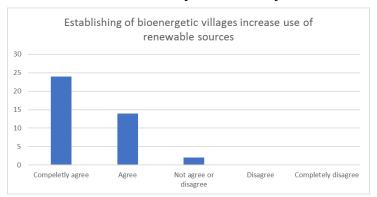
describe discussion and opinion of the participants. Was there any active participation? How did the participants evaluate the training? What are lessons learnt?

Results of evaluation questionnaire

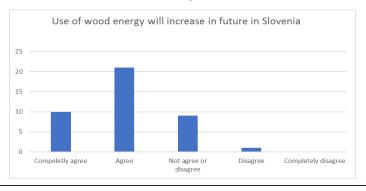
We got 41 questionnaires back even though 60 participants participated in conference.

Participants agreed that most important statement of given was that establishing of bioenergy villages increases use of renewable (wood) sources. Average grade was 4,55. They agreed that local biomass should be exploited in bioenergy villages and that district heating would encourage forest owners to cut trees and to join district system.

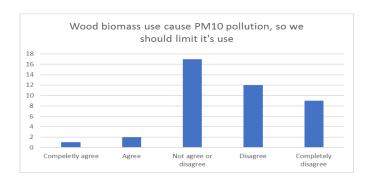
Feedback from participants



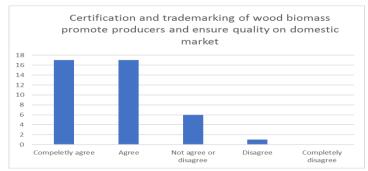
Most of participants (75 %) believe that in future wood biomass use will increase in Slovenia.



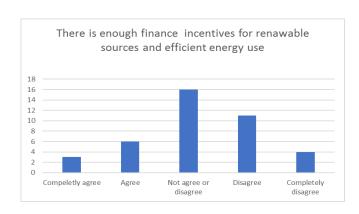
Participants don't agree that wood biomass cause PM10 and don't agree that we should limit its use in future. Instead of that we should invest in new efficient boilers and heating plants and use firewood (also pellets, wood chips, briquettes) with optimal moisture content.



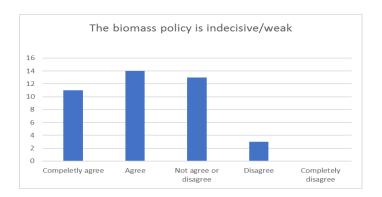
83 % participants find it important or very important to certificate and mark wood biomass to promote producers and ensure quality of wood fuel.



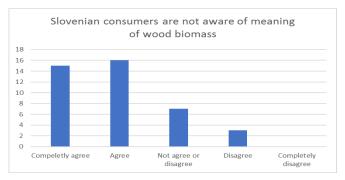
41% of participants are not sure there are enough subsidies/incentives for renewable sources and efficient energy use.



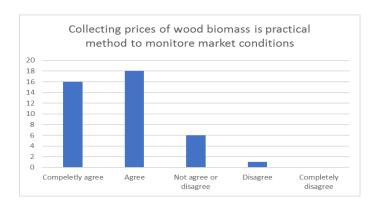
Most of the participants completely agree or agree with fact that biomass policy is indecisive or weak.



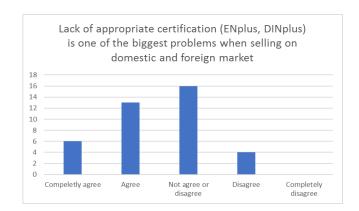
75,6 % of participants completely agree or agree that Slovenian consumers are not aware of the meaning of wood biomass.



Almost all participants (83 %) agree that collecting prices of wood fuel is practical method to monitor market conditions.



More than half of participants opinion is that there is not enough appropriate certification (ENplus, DINplus) for selling timber on domestic or foreign market.



Conclusions

Recommendations of the participants for the future implementation of bioenergy projects in Slovenia are:

- to include professors and students to project trainings or conferences so they can be part of education and sharing ideas.
- to have more financial incentives in area of green wood chips use, because in Slovenia we have lot of logging residuals which go to waste. If we would have boilers running on green biomass, efficiency of Slovenian forestry would be even better. Now, we produce small amount of green wood chips which are exported to Austria.
- There was also a recommendation for questionnaires. They suggest each presentation should have a chance of individual grade, because some are better and more actual then others.

Average grade of conference was very good - 4,5. Participants enjoyed presentations. Participants got to understand better the concept of bioenergy villages and concept of wood biomass heating. They were most satisfied with organization of conference (average grade was 4,8) and the program of conference (the grade was 4,7).

2.5.2 Attachments

EVENT AGENDA (invitation, program)









Vabimo vas na konferenco:

TRŽNO UVELJAVLJANJE OBNOVLJIVIH VIROV ENERGIJE IN PODPORA POVEČANI RABI LESNE BIOMASE

Ki bo potekala v četrtek, 15. novembra 2018, v dvorani Gozdarskega inštituta Slovenije na Večni poti 2, Ljubljana

Obnovljivi viri energije lahko pomembno prispevajo k razvoju podeželja, k ustvarjanju novih delovnih mest in k oblikovanju energetsko neodvisnih krajev. Na konferenci bodo predstavljeni različni koncepti učinkovite rabe obnovljivih virov energije, priložnosti, ki jih ponuja lesna biomasa in začetki energetske neodvisnosti v Sloveniji.

Okvirni program konference:

- 8:30 Prihod udeležencev
- 9:00 Otvoritev dogodka, predstavitev namena in poteka konference (Nike Krajnc, GIS)
- Razvoj energetsko samooskrbnega kraja Dole pri Litiji: trenutno stanje in pogled naprej (Jože Prah, predstavnik kraja Dole pri Litiji)
- Možnosti za vzpostavitev daljinskih sistemov na lesno biomaso kot osnove za energetsko neodvisne kraje: pregled stanja in priložnosti za pridobivanje sredstev (Uroš Habjan, MZI)
- 10:00 Pomen daljinskih sistemov za izboljšanje kakovosti zraka v Sloveniji v Strategiji umne rabe lesne biomase za ogrevanje (Jože Jurša, MOP)
- 10:30 Primer dobre prakse iz Avstrije: Planning, optimization, quality management and operating DH (Franz Moser, Bioenergie Service Gen.m.b.H)
- 11:15 Odmor s kavo
- 11:45 Vzpostavitev gozdno-lesnih verig v zavarovanih območjih (Kristina Sever, GIS)
- 12:15 Pomen kvalitete lesnih goriv (Peter Prislan, GIS)
- 12:45 Lokalni semafor podnebnih aktivnosti s poudarkom na energetski neodvisnosti občin ter prikaz stanja danes (Gašper Stegnar, IJS)
- 13:15 Potenciali in možnosti rabe lesne biomase v Sloveniji (Nike Krajnc, GIS)
- 13:40 Razprava z zaključkom: povzetek nacionalnih, regionalnih in evropskih politik in spodbud, podporni inštrumenti, angažiranje interesnih skupin ter predlogi za naslednje korake in projekte (Nike Krajnc, GIS)
- 14:00 Pogostitev





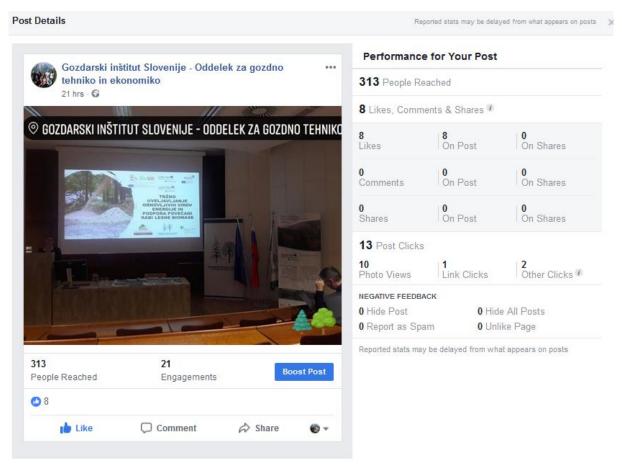


OTHERS (media reports: newspapers, web page)

Announcement about the 5th training was posted on SFI Facebook page and Forbioenergy Facebook page



Story post from the 5th training was posted on SFI Facebook page



News about the event was posted on SFI Facebook and Forbioenergy Facebook page



Oseba Gozdarski inštitut Slovenije - Oddelek za gozdno tehniko in ekonomiko je dodala nove fotografije (8) z dne 16. november.

16. november · ② · 6

V četrtek, 15.11.2018, se je v dvorani Gozdarskega inštituta Slovenije odvila konferenca pod okriljem projektov BioVill in ForBioEnergy z naslovom »Tržno uveljavljanje obnovljivih virov energije in podpora povečani rabi lesne biomase«. Na konferenci so bili predstavljeni različni koncepti učinkovite rabe obnovljivih virov energije, predstavljen je bil razvoj energetsko oskrbnega kraja, možnosti in vzpodbude za daljinske sisteme ogrevanja (EKO sklad), primer dobre prakse DOLB (Avstrija), predstavljeni so bili tudi potenciali energetske učinkovitosti južnega Pohorja ter Zreč. Institut Jožef Stefan je razvil lokalni semafor podnebnih aktivnosti, dr. Nike Krajnc (GIS) pa je predstavila potenciale rabe lesne biomase v Sloveniji. Dogodek smo zaključili s skupinsko razpravo udeležencev.







On Thursday, November 15, 2018, a training course was held in the premises of the Slovenian Forestry Institute as part of the ForBioEnergy project. The topic of the training was focused on "Market effectiveness of renewable energy sources and how to increase the use of wood biomass in energy sector". The event was organized by Slovenian Forestry Institute and RDA Green Karst. Participants of the conference were very diverse; from representatives of Biotechnical Faculty, EKO Fund, Slovenian Chamber of Agriculture and Forestry, energy consultants, Slovenian Forest Service, Ministry of agriculture, forestry and food, Slovenian Forestry Institute, Ministry of infrastructure, Slovenian Forest Owners Association and other organizations.

Various topics were presented at the conference; efficient use of renewable energy sources, the development of self-energy supply village, opportunities and incentives (EKO Fund) for co-financing the costs of transition to wood biomass boilers, main steps for establishment of wood-energy-supply chain, the importance of quality wood fuels and potentials of biomass use in Slovenia. At the end a lively discussion evolved.

Amufor Interreg MED Programme Interreg Sudoe Programme Cámara Valencia





The announcement of the 5th training and the news after the training were posted on Forbioenergy web page.

























ANNOUNCEMENT OF THE 5TH TRAINING COURSE IN LJUBLJANA SLOVENIA

In the frame of ForBioEnergy project we organize the 5th training course which will take place in Ljubljana, Slovenia on November 15, 2018 in the premises of Slovenian Forestry Institute. The topic of the training is focused on market effectiveness of renewable energy sources and how to increase the use of wood biomass.

Renewable energy sources can make an important contribution to rural development, to the creation of new jobs and to the creation of energy-independent locations. The training course will present various concepts of efficient use of renewable energy sources, the opportunities offered by wood biomass and the beginnings of energy independence in Slovenia.









TRŽNO UVELJAVLJANJE OBNOVLJIVIH VIROV ENERGIJE IN PODPORA POVEČANI RABI LESNE BIOMASE

Ki bo potekala v četrtek, 15. novembra 2018, v dvoran Gozdarskega inštituta Slovenije na Večni poti 2, Ljubljar

Obnovljivi viri energije lahko pomembno prisperajo k razvoju podeželja, k ustvarjanju novih delovnih mest ni koblikovanju energetsio neodvirnih krajec. Ila konferenci bodo predstavljeni različni koncepti udirkoviter zake okonstjivih vivor energije, priložnosti, ki jih ponuja lesna biomasa in začetsi energetsie neodvisnosti v Soveniji.

- 30 Onomie dogoda, predstaviter namená in poteka konference (lilike franc. GiS)
 315 Predstaviter projekta Bélvilli Energetia o amosothos Iranji (dS)
 316 Predstaviter projekta Bélvilli Energetia o amosothos Iranji (dS)
 316 Možodu za postaviter energetia o amosothos Iranji (dS)
 317 Možodu za postaviter energetia o amosothos volumenta volument

- 11:15 Odmor skavo

- 1115 Omor si lavo

 1145 Analas energitalego potencialo judinego Polocia (Veronia Valentar, KGZ-Mainbor)

 1215 Potenciali sa energitale samodatio in razinjen erditire cibine Zerde (norbinaria)

 turističnih potencialo in zodobne nergetale relievo) (lavijale Kordec, Obina Zerde)

 1245 Leidni samado podmebnih altimosti spoudantom na energetali relovinosti občina zerde

 1245 Leidni samado podmebnih altimosti spoudantom na energetali relovinosti občina zerde

 1246 Patria sali podmeti (Salighe Bergare, 185)

 1315 Potenciallin možinosti neble elene biomast, in servi il) filike krajer, G. G.

 1346 Razinska si puljučbom pozetek nastvaniha, ingestinalnih in eropitali podlati in spolital, podpovinosti obcina da servica si podlati pod podlati podlati in podlati podlati

5TH TRAINING COURSE HELD IN SLOVENIA

The topic of the training was focused on "Market effectiveness of renewable energy sources and how to increase the use of wood biomass in energy sector" organized by Slovenian Forestry Institute and RDA Green Karst, held on November 15, 2018.

On Thursday, November 15, 2018, a training course was held in the premises of the Slovenian Forestry Institute as part of the ForBioEnergy project. The topic of the training was focused on "Market effectiveness of renewable energy sources and how to increase the use of wood biomass in energy sector". The event was organized by Slovenian Forestry Institute and RDA Green Karst. Participants of the conference were very diverse; from representatives of Biotechnical Faculty, EKO Fund, Slovenian Chamber of Agriculture and Forestry, energy consultants, Slovenian Forest Service, Ministry of agriculture, forestry and food, Slovenian Forestry Institute, Ministry of infrastructure, Slovenian Forest Owners Association and other organizations.

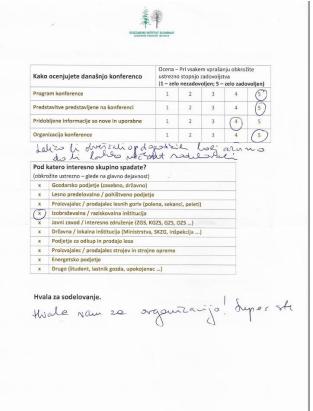
Various topics were presented at the conference; efficient use of renewable energy sources, the development of self-energy supply village, opportunities and incentives (EKO Fund) for co-financing the costs of transition to wood biomass boilers, main steps for establishment of wood-energy-supply chain, the importance of quality wood fuels and potentials of biomass use in Slovenia. At the end a lively discussion evolved.





The questionnaire





2.6 Training no. 6

2.6.1 Technical report

Pilot Area	Pivka lakes, Škocjan caves Regional park			
	VZPOSTAVITEV GOZDNO LESNE VERIGE V ZAVAROVANIH OBMOČJIH			
Event title	Establishing a forest-wood-energy supply chain in the protected			
	areas			
Involved partner	PP3 Slovenian Forestry Institute			
	PP4 RDA Green Karst			
Responsible partners	Slovenian Forestry Institute, RDA Green Karst			
Location	Agricultural fair Komenda, Komenda			
Date	12.4.2019			

No. of participants	27			
Target groups	Energy companies/agencies, Private forest owners Association, Slovenia Forest Service, Ministry representatives; agriculture, forestry and energy consultants; representatives of local communities and wood fuels producers; local public authority; forest owners; other relevant stakeholders.			
Trainers/speakers	 Nike Krajnc (SFI) Matjaž Harmel (Zavita) Kristina Sever (SFI) Marjan Dolenšek (SFI) 			
Training materials	 PPT presentations: Introduction of Forbioenergy project (Nike Krajnc) Wood fuels quality (Nike Krajnc) Forest property management plans for forest owners (Matjaž Harmel) Establishing of local wood-energy supply chain in Pivka municipality (Kristina Sever,) Dissemination material: Forbioenergy roll-up, Forbioenergy brochures Evaluation questionnaires 			

(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 major point of the 6th training was to present the idea of Forbioenergy project, all activities done within the project with a focus on establishing a wood-energy supply chain in local area and using quality wood fuels.

27 participants took place in 6th training. Participants who attended the training were representatives of educational and research organizations, public bodies from the field of forestry, representatives of forest owner's association, private forest owners, and private wood-processing companies and representatives of written media from the field of forestry and agriculture. Also, general public was able to attend the training in the frame of Agricultural fair. All participants are important stakeholders, policy or decision makers or somehow differently involved in the topic and are important factor in topics related to extraction of wood, market uptake and supporting of wood processing chain.

Report on training

Training lasted for about 3 hours. After each presentation questions of audience followed, and lecturers discussed answers with askers. Participants were of different sectors, so questions were more specific to different fields (management plans for small private forest owners, connecting with other stakeholders,...). After all presentations group discussion followed, where some of the participants expressed their critical opinion. It is very challenging for small private forest owners to join the chain and to start making profit with the small property. Training course was helpful for understanding why quality wood fuels are important for heating in boilers and how can each stakeholder contribute to establish a local wood-energy supply chain in protected and non-protected areas in Slovenia. The training was a good opportunity for social networking and exchanging knowledge between participants.

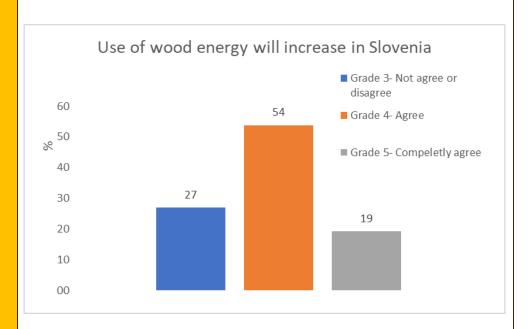
Feedback from participants

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

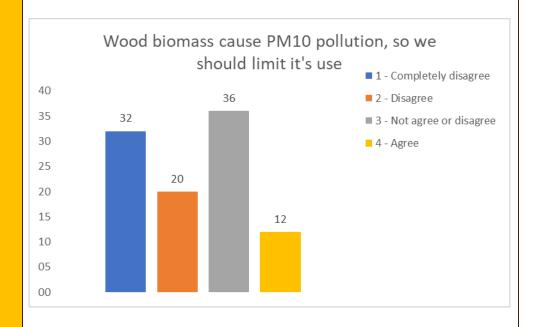
26 participants answered the questionnaire (12 forest owners, 2 from educational institutions, 9 from public institution, 1 wood fuel producer and 2 unknown). 11 statements about the wood fuels and biomass and 3 statements regarding the training were presented in the questionnaire and had to be answered with 5 rate scale (where 1 is very bad and 5 is very good). Bellow few answers are presented:

- In general participants were satisfied with the training organisation, programme, presentations and information. The average grade was 4.3.
- Most of participants believe that in future wood biomass use will increase in Slovenia. 53,8 % answered with 4 - I agree, and

19,2 with 5 - I completely agree.

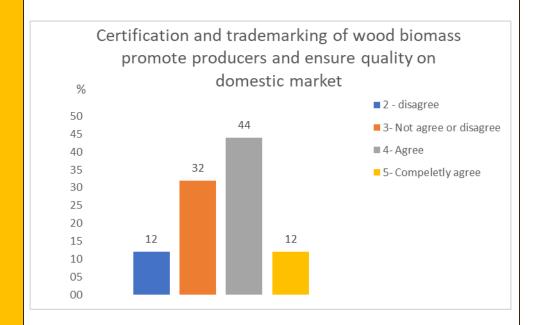


Participants don't agree that wood biomass cause PM10 and don't agree that we should limit its use in future. Instead of that we should invest in new efficient boilers and heating plants and use firewood (also pellets, wood chips, briquettes) with optimal moisture content. 32 % answered with grade 1completely disagree, 20 % with 2 - disagree and 36 % with grade 3 - not agree or disagree.



Most of the participants find it important to certificate and

mark wood biomass to promote producers and ensure quality of wood fuel. 44 % answered with grade 4 - Agree and 12 % with 5 completely agree.



2.6.2 Attachments

(Scan documents and attach them in certain chapters as photos):

EVENT AGENDA (invitation, program)



Program izobraževanja:

	09:00 - 09:30	Otvoritev in uvodni nagovor ter predstavitev projekta Forbioenergy (Nike Krajnc, GIS)
VZPOSTA	09:30 - 10:15	Pomen kakovosti lesnih goriv (Nike Krajnc, GIS)
	10:15 - 11:00	Predstavitev posestnega načrta za gozdove občine Pivka (Zavita d.o.o.)
Izobraževanj	11:00 - 11:45	Primer vzpostavitve lokalne gozdno-lesne verige v občini Pivka (Kristina Sever, Marjan Dolenšek GIS)
	11:45 - 12.00	Zaključek izobraževanja in razprava
Na predovan zavarovanih (energetske na polen, sledijo člene; od lasti	12.00	Uradna otvoritev sejma v prireditvenem šotoru na sejmišču

pripravili načrt za vzpostavitev lokalne gozdno-lesne verige v občini Pivka. Pri tem smo se osredotočili na pridobivanje kakovostnih lesnih goriv, ki prispevajo k optimalnemu zgorevanju v kotlu in ne obremenjujejo okolja s prašnimi delci.

Glavni namen izobraževanja je:

- 1. Predstaviti stanje na področju pridobivanja, predelave in rabe lesnih goriv v Sloveniji
- 2. Predstaviti trajnostno rabo lesa in pomen kakovosti lesnih goriv
- 3. Predstaviti primer lokalne gozdno-lesne verige v občini Pivka
- 4. Predstaviti ideje, ki lahko prispevajo k povečevanju učinkovitega pridobivanja, predelave in rabe lesne biomase ter k vzpostavitvi novih verig

Izobraževanje bo potekalo v okviru Spomladanskega sejma v Komendi od 9:00 do 12:00 v prostorih Konjeniškega kluba Komenda. Poleg predavanj si bo možno ogledati tudi razstavo gozdarske tehnike in opreme.

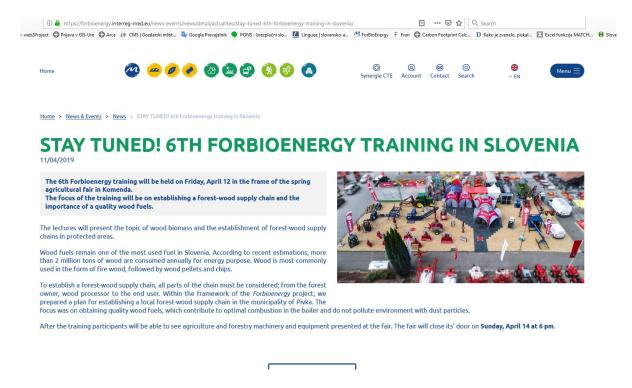
Izobraževanje je brezplačno za vse udeležence. Zaradi lažje organizacije pa prosimo za predčasno najavo udeležbe na kristina.sever@gozdis.si.

Vljudno vabljeni,

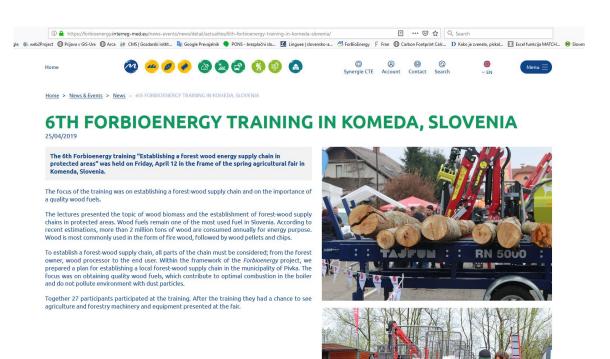
Nike Krajnc (Gozdarski inštitut Slovenije) in Dunja Mahne (RRA Zeleni kras).

OTHERS (media reports: newspapers, web page)

The announcement of Forbioenergy training on Forbioenergy web page.



The news of 6th Forbioenergy training on Forbioenergy web page.



The questionnaire









KAKO OCENJUJETE SPODAJ NAVEDENE TRDITVE OZIROMA OPREDELJENE PROBLEME POVEZANE Z GOZDNO LESNIMI VERIGAMI?

Vsako TRDITEV oz. PROBLEM ocenite Z VIDIKA VAŠE DEJAVNOSTI (1 - popolnoma nepomembno do 5 - zelo pomembno)

1 - Se popolnoma ne strinjam/Popolnoma nepomembno; 2 - Se ne strinjam/Nepomembno; 3 - Se niti ne strinjam niti strinjam /Niti nepomembno niti pomembno; 4 - Se strinjam /Pomembno; 5 - Se popolnoma strinjam /Zelo pomembno

Kako ocenjujete naslednje trditve	Ocena – Pri vsakem vprašanju obkrožite ustrezno stopnjo strinjanja s trditvijo				
Vzpostavljanje energetsko neodvisnih krajev vodi k povečani rabi obnovljivih virov energije	1	2	3	4	(3)
Raba lesnih goriv se bo v Sloveniji tudi v prihodnosti povečevala	1	2	3	4	5
Kapacitete za proizvodnjo sekancev v Sloveniji so ustrezne	1	2	3	4	5
Oblikovanje certifikatov ali tržnih znamk za lesna goriva je prava pot za promocijo domačih proizvajalcev in zagotavljanje kakovosti na domačem trgu	1	2	3	4	(5)
Pomanjkanje ustreznih certifikatov (ENplus, DINplus,) je eden večjih problemov pri prodaji na domačem in tujem trgu	1	2	3	4	9
Zbiranje cen lesnih goriv je praktično orodje za spremljanje razmer na trgu	1	2	3	4	5
Politika spodbujanja večjih daljinskih sistemov ogrevanja je ustrezna	1	2	3	4	5
Raba lesnih goriv povzroča problem onesnaževanja zraka z delci PM10, zato bi bilo potrebno omejiti njihovo rabo	1	2	3	4	5
Slovenski potrošniki niso ozaveščeni o pomenu kakovosti Jesnih goriv	1	2	3	4	(5)
Politika na področju rabe lesne biomase je neodločna	1	2	3	4	(3)
Na voljo je dovolj (finančnih) spodbud za obnovljive vire in učinkovito rabo energije	1	2	3	4	5









Kako ocenjujete današnje izobraževanje	Ocena – Pri vsakem vprašanju obkrožite ustrezno stopnjo zadovoljstva (1 – zelo nezadovoljen; 5 – zelo zadovolje				
Program izobraževanja	1	2	3	4	(5
Predstavitve predstavljene na izobraževanju	1	2	3	4	G
Pridobljene informacije so nove in uporabne	1	2	3	4	(8

Pod katero interesno skupino spadate (obkrožite ustrezno – glede na glavno dejavnost)?

×	Gozdarsko podjetje (zasebno, državno)
X	Lesno predelovalno / pohištveno podjetje
×	Proizvajalec / prodajalec lesnih goriv (polena, sekanci, peleti)
X.	Izobraževalna / raziskovalna inštitucija
×	Javni zavod / interesno združenje (ZGS, KGZS, GZS, OZS)
X	Državna / lokalna inštitucija (Ministrstva, SKZG, inšpekcija)
×	Podjetje za odkup in prodajo lesa
х	Proizvajalec / prodajalec strojev in strojne opreme
X	Energetsko podjetje
x	Drugo (študent, lastnik gozda, upokojenec)

Hvala za sodelovanje.



Forest Bioenergy in the Protected Mediterranean Areas

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