Short Rotation Woody Crops (SRC) plantations for local supply chains and heat use

Project No: IEE/13/574



Report on training events for farmers in Achental / Germany

WP 3 – Task 4 / D 3.5

September 2015

Amended March 2016



4 Training event 2

The 2nd Training event took place on the 26th of January 2016 at Übersee, nearby the BAT, Grassau. This training event was organised in combination with the harvest of the existing SRC by means of a new harvesting prototype.

4.1 Basic information

Location/ Country: Germany	Partner. BAT	No. of event: 2
No. of participants: 48	Place: Übersee (Chiemsee)	Date: 26.01.2016
Target groups: Famers		

4.2 Topics of the training event:

The following topics were discussed during the 2nd training event:

- Introduction with presentation of the SRCplus project and consortium (Dr. Stefan Hinterreiter, BAT)
- Right choice of seedlings combined with the soil properties, nutrition and water supply (Randolf Schirmer, ASP Teisendorf)
- SRCs in Bavaria and/or SRC establishment under foils (Dr. Frank Burger, LWF)
- Practical experience with SRC in Germany (Wolfram Kudlich, Wald21)
- Development and presentation of the new harvesting prototype (Dr. Ralf Pecenca, ATB Potsdam)
- Sales and practical experiences harvesting prototype (Susann Skalda, Biomasse Schraden e.V.)
- Face-to-face discussion with experts and farmers about the advantages of SRC and their problems/difficulties/reservations with SRC
- Practice day: harvest with a new harvester prototype

4.3 Short summary: (goals, programme, feedback)

The second training has been organized by the Biomass Trading Centre by combining a brief summary of the main aspects of SRC for farmers with a harvesting demonstration (with a new SRC-harvesting prototype) at the same time at the same/one site. According to the positive feedback of the first training, this way of implementation was chosen again for the second training.

Therefore experts have been invited to share their experience(s) about SRC with the attending farmers. Moreover theoretical and practical issues have been discussed between the participants. Because of the fact being an "open event", the attending farmers came and left the harvesting site as they wanted to. Therefore it was quite challenging to get a signature and a completed record of attending respectively. Moreover it was impossible to convince the farmers to fill out a questionnaire... As consequence, not a single questionnaire was filled out and submitted.

Despite this disappointing rate of return, the event was an overwhelming success. This can be verified on the one hand by the fact, that a television team accompanied the training event and

on the other hand by the impact of the published film contribution: this contribution was already seen more than 1.000 times (see https://www.youtube.com/watch?v=mMqOaZ-Mots)!

4.4 Event agenda (invitation and programme)

In contrast to the first training event at Vogtareuth and St. Leonhard the potential participants have been invited via email. This way of invitation was chosen by BAT because BAT thought by addressing the potential attendants personally, the more will participate. And the number of participants (see Figure 12) verified this way of inviting the people as the right one.

The email of invitation is shown in Figure 10.



Figure 10: Email of invitation for the 2nd training event for farmers

The agenda of the 2nd training event is shown in Figure 11.

3	Co-lunded by the Intelligent Energy Europe Programme of the European Union
P	rogramm der Erntevorführung in Übersee (Chiemsee) Datum: Dienstag, 26.01.2016
,	Anfahrtsplan sowie Parkmöglichkeiten, siehe Seite 2
9:00 Uhr	Beginn mit Erntevorführung
ab 10 Uhr	Erste Vortragsrunde (Ernte läuft gleichzeitig weiter):
10:00 Uhr	Stefan Hinterreiter (Biomassehof Achental): offizielle Begrüßung und Kurzvorstellung SRCplus-Projekt
10:05 Uhr	Randolf Schirmer (ASP Teisendorf):richtige Sortenwahl für eine KUP in Bayern
10:10 Uhr	Frank Burger (LWF Freising): KUP-Anbau in Bayern oder KUP-Anbau unter Folie
10:15 Uhr	Wolfram Kudlich (Wald21): Praxiserfahrungen
10:20 Uhr	Ralf Pecenka (ATB): Entwicklung und Vorstellung Erntegerät / Hacker
10:25 Uhr	Susann Skalda (Blomasse Schraden): Vertrieb und Praxiserfahrungen Erntegerät und Kurzvorstellung AUFWERTEN-Projekt (Agroforst)
Während de Möglichkeit, Erntegerät be	r gesamten Veranstaltung läuft die Ernte. Im Anschluss an die Vorträge besteht die mit den Referenten zu diskutieren. Außerdem stoppt die Ernte kurzzeitig, damit das seichtigt werden kann sowie der Fahrer des Erntetraktors für Fragen zur Verfügung steht.
Ab 13 Uhr:	Zweite Vortragsrunde (Inhalte wie ab 10 Uhr)
13:00 Uhr	Stefan Hinterreiter
13:05 Uhr	Randolf Schirmer
13:10 Uhr	Frank Burger
13.15 Uhr	Wolfram Kudlich
13:20 Uhr	Ralf Pecenka
13:25 Uhr	Susann Skalda
Erneut soll na werden kann stehen.	ich den Vorträgen die Ernte kurzzeitig gestoppt werden, damit das Erntegerät besichtigt sowie der Fahrer des Erntetraktors und die Referenten für Gespräche zur Verfügung
C2 15-15 U	hri Endo das Esstavastiliasuas

Für das leibliche Wohl während der Erntevorführung ist gesorgt.



4.5 List of participants

The list of participants of the 2nd training event can be found in Figure 12.

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Figure 12: List of participants of the 2nd training event at Übersee (Chiemsee)

4.6 Event photos

In the following chapter, several photos taken at the event at Übersee are shown in Figure 13 to Figure 19.



Figure 13: Photo showing the session of presentation at Übersee



Figure 14: Dr. Frank Burger holding his presentation



Figure 15: New harvesting prototype producing fresh SRC woodchips



Figure 16: New harvesting prototype producing fresh SRC woodchips (2)



Figure 17: New harvesting prototype producing fresh SRC woodchips (3); on the left side can be seen the event location of the presentations



Figure 18: Interested visitors having a look at the new harvesting prototype.



Figure 19: Discussion with farmers according to the harvest

4.7 Others (media reports: newspapers, web page)

According to the 2nd training event, several ways of public relations work were used. One way was to publish an article of the training event on the homepage of BAT. This article can be found in Figure 20.



Figure 20: Article published on the homepage of the BAT

Another way of public relation work was the television. Combined with a training for farmers and accompanied by a film crew of the Bavarian Television, the SRC-plantation nearby the Biomass Trading Centre (BAT) was harvested in January 2016. The contribution of the film crew was broadcasted on Sunday, the 7th February 2016 within the BR-series "Schwaben & Altbayern" (Swabia & Old Bavaria) and also can be found on the homepage of the Biomass Trading Centre (only available in German; <u>http://www.biomassehof-achental.de/biomassehof-auf-you-tube.html</u>)



Figure 21: Screenshot of the YouTube-videos on the homepage of BAT

Moreover several articles about the training event and harvest have been published. One first, shown in Figure 22 was published in one of the most favourite news magazines for farmers in Bavaria: the "Bayerisches Landwirtschaftliches Wochenblatt" (BLW).



Figure 22: Article published in the "Bayerisches Landwirtschaftliches Wochenblatt"

Another one was published in several regional newspapers, e.g. the "Südostbayerische Rundschau" (see Figure 23) or the "Oberbayerisches Volksblatt" (see Figure 24):







Figure 24: Article published in the "Oberbayerisches Volksblatt"

5 Material used in training activities

5.1 National

Table 2: National training material used in the first training event at Vogtareuth and St. Leonhard

URL	See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file
Publisher					
Topics	Subsidies, Advantages for farmers	best practice example	Erfahrungen bei der Akquise von Flächen für KUP, Klon- Stecklingsauswahl	Erfahrungen bei der Anlage von KUP	
Title	Förderung von KUP im Rahmen von Programmen zur Entwicklung des Ländlichen Raumes	Wärmeversorgung eines Industrieunternehmens aus KUP	Erfahrungen bei der Akquise von Flächen für KUP; Klon- und Stecklingsauswahl	Erfahrungen bei der Anlage von KUP	EU-Agrarpolitik
Year	2011	2011	2011	2011	2015
Editor(s)					
Author(s)	Dr. Thomas Horlitz	Hans-Moritz von Harling	Dr. Dirk Landgraf	Wolfram Kudlich	Bundesministerium für Ernährung und Landwirtschaft
Format	pdf	pdf	pdf	pdf	electronic
Type of material	Presentation	Presentation	Presentation	Presentation	Homepage

See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file
		all topics about SRC	siehe Titel	Advantages of poplars for SRC	all topics about SRC	Research project about the ecological influence of SRCs
LEL - KUP- Rechner	Hackschnitzel vom Acker	Das Energieholz-Portal	Hydrologische und ökologische Aspekte bei Kurzumtriebsplantagen	Bioenergie: Pappeln gut im Rennen	Kurzumtriebsplantagen - LWF-Wissen 70	Forschungsprojekt zu Kurzumtriebsplantagen
2010	2014	2015	2012	2012	2012	2015
Landesanstalt für Entwicklung der Landwirtschaft und der ländlichen Räume (LEL)	Anja Böhrnsen - Zeitschrift profi	AgroForNet	Martina Zacios, Jörg Niederberger, Hannes Seidl, Christoph Schulz, Lothar Zimmermann und Frank Burger	Maria Bystricky, Frank Burger, Gabriele Weber- Blaschke und Martin Faulstich	Frank Burger, Stefan Friedrich, Christina Schumann und Florian Zormaier	NABU
electronic	pdf	electronic	pdf	pdf	electronic	electronic
Excel-file	Article	Homepage	Article	Article	Homepage	Homepage

Report on training events for farmers in Achental / Germany

SRCplus

September 2015

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BAT

See enclosed xlsx-file	See enclosed xlsx-file	See enclosed xlsx-file
Relevant information about the influence of SRCs on environment	all topics about SRC	all topics about the right SRC seedlings
Naturschutzfachliche Anforderungen Kurzumtriebsplantagen	Schnellwachsende Baumarten	Energiewald
2012	2015	2015
NABU	Fachagentur Nachwachsende Rohstoffe	Bayerische Amt für forstliche Saat und Pflanzenzucht (ASP)
pdf	electronic	electronic
Article	Homepage	Homepage

5.2 European/International

Table 3: International training material used in the first training event at Vogtareuth and St. Leonhard

URL		
Publisher	Publisher	
Topics	Topics	
Title	Title	
Year	Year	
Editor(s)	Editor(s)	
Author(s)	Author(s)	
Format	Format	e.g. electronic, hardcopy
Type of material	Type of material	e.g. book, paper, guidelines, handbook, mannual, presentation, etc

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	CEN, Beuth Verlag		
Site selection, selection of trees, cultivation, harvest, use of SRC woodchips, effects on environment, etc	see title		
Sustainable Short Rotation Coppice - A Handbook	EN ISO 17225-1, Solid biofuels - Fuel specifications and classes - Part 1: general requirements (ISO 17225- 1:2014)		
2015	2014		
Rita Mergner, Stefan Hinterreiter, Laurie Scrimgeour, Ioannis Eleftheriadis, Ilze Dzene, Željka Fištrek, Dagnija Lazdina, Gordana Toskovska, Linda Drukmane, Dominik Rutz			
loannis Dimitriou, Dominik Rutz	CEN (European Committee for Standardization)		
	hardcopy		
Handbook	European Standard		

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6 Evaluation of questionnaires

The first questionnaire is shown in Figure 25 to Figure 31.





Projekt Nr: IEE/13/574

Fragebogen

Ort/Land: Germany	Nr. der Veranstaltung: 1
Ort: Wonneberg	Tatum: 22.04.2015

Angesprochene Themen

- KUP-Baumarten
- Anforderungen einer KUP bzgl. Klima, Wasser- und Bodeneigenschaften
- Landwirtschaftliche Praxis: Pflanzung, Wachstum und Ernte inkl. Nachhaltigkeitsaspekte
- Jeweilige Maschinen
- Pflanz-, Ernte- und Maschinenkosten, landwirtschaftliche Geschäftsmodelle
- KUPs und Nachhaltigkeit
- KUPs auf Grenzertragsstandorten und stillgelegten Flächen
- Hackschnitzelnutzung und Hackschnitzel-Vermarktung

Bewertungsskala

Sehr schlecht	Schlecht	Mittel	Gut	Sehr gut
1	2	3	4	5



Figure 25: First Page of the questionnaire

7 Lessons learned and adjustment of training concept for farmers

As already written, our opinion is not to change, adjust or improve our training concept because of the positive oral feedback of the participants. This was approved also according to the second training.