

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 Achenal / Germany

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SRCplus website: www.srcplus.eu

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1 Introduction

The Biomass Trading Centre managed to organize a first training event in combination with two planting events in the region Achental, Germany. The first site and planting event was located nearby Vogtareuth und and the second one nearby St. Leonhard am Wonneberg. It has been a successful training event as the first step to establish new SRC plantations in the region Achental / Germany.

The second training event shall take place in combination either with a seedling campaign at a new SRC plantation nearby Waging am See or a harvest of the existing SRC plantation nearby Übersee. Further details about that event will follow.

Table 1: Training events for farmers in the region Achental/Germany

| Location | Date | Number of participants | Number of received questionnaires |
|-----------------------------|----------------|------------------------|-----------------------------------|
| Vogtareuth and St. Leonhard | 22./23.04.2015 | 15 | 2 |
| Waging or Übersee | Jan/Feb 2016 | 30 – 40 (planned) | 30 (planned) |

2 Overview of training events

2.1 Summary

The first training has been organized by the Biomass Trading Centre by combining a brief summary of the main aspects of SRC for farmers with attending a planting event at the same time at the same/one site. Further details follow in the relevant chapter below. This first event was quite successful and a positive feedback was given by the attending participants. A positive feedback was given for the character of the event: the combination of theoretical knowledge-transfer and the implementation by planting a new SRC plantation.

This positive feedback was and will be the reason to arrange the next / second training event in the same way: transfer theoretical knowledge and implement the action at the same site. Only the practicability to get questionnaires back is quite challenging, because arranged as an “open” event on the site, the participants feel free to come and leave as they want.

Further information will follow according to the second training event, which is planned in early 2016.

2.2 Feedback from participants

The general feedback has been quite positive, only the amount of received questionnaires was disappointingly low (as already mentioned above). One positive issue has been, that the training event was combined with a planting event of a new SRC plantation. Therefore, the participants could at first get an overview of general and specific information about the right choice of SRC-seedlings in combination with the predominant soil properties and water/nutrition supply as well as the topics mentioned in Chapter 3.2.

Based on the received questionnaires, the program as well as the mentioned topics don't need to be improved for the second training event.

3 Training event 1

Training event at Vogtareuth and St. Leonhard.

3.1 Basic information

| | | |
|----------------------------|------------------------------------|----------------------|
| Location/ Country: Germany | Partner. BAT | No. of event: 1 |
| No. of participants: 15 | Place: Vogtareuth and St. Leonhard | Date: 22./23.04.2015 |
| Target groups: Farmers | | |

3.2 Topics of the training event:

The following topics were discussed during the training events:

- Right choice of seedlings combined with the soil properties, nutrition and water supply
- Different rotation cycles/periods.
- SRC establishment / settlement (technics, advantages, ...)
- Face-to-face discussion with farmers about the advantages of SRC and their problems/difficulties/reservations with SRC
- CAP: possibility to receive subsidies.
- Possibilities for the usage of the woodchips out of SRC
- Practice example for soil preparation and example for ecological soil preparation
- Practice day: two new SRC plantations were planted (Vogtareuth and St. Leonhard)

3.3 Short summary: (goals, programme, feedback)

For this chapter, the summary in Chapter 2 can be used again.

3.4 Event agenda (invitation and programme)

Figure 1: Invitation to the first training events, published on the homepage of the Biomass Trading Centre (see <http://www.biomassehof-achental.de/news/items/einladung-zur-maschinellen-kup-pflanzung.html>)

| Waldhackschnitzelklasse | Preis (€/t) |
|-------------------------|-------------|
| WG 35 | 100,97 |
| WG 30 | 155,35 |
| WG 25 | 155,35 |

Figure 2: Invitation to the event (see http://www.biomassehof-achental.de/tl_files/images/bioenergie_region/presstexte/Einladung%20maschnielle%20Pflanzung_klein.pdf)

3.5 Event photos

In the following chapter, several photos taken at the event in St. Leonhard are shown in Figure 3 to Figure 6.



Figure 3: Different SRC-species used for the new SRC plantations



Figure 4: Discussion at the training events between the participants



Figure 5: Planting machine “in action” at the new SRC site in St. Leonhard (1)



Figure 6: Planting machine “in action” at the new SRC site in St. Leonhard (2)

3.6 Others (media reports: newspapers, web page)

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Mo – Fr 07.00 – 16.00 Uhr
Sa. 09.00 – 12.00 Uhr (von Oktober bis einschließlich März)

SRC+
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Vorsicht Ölmulti!

Neue Kurzumtriebsplantagen wurden gepflanzt
18.05.2015 07:13

Grassau – Am 22. und 23.04.2015 konnten zwei neue Kurzumtriebsplantagen (KUPs) gepflanzt werden, wodurch der Biomassehof Achenal gemeinsam mit der Wald21 GmbH seinem Ansinnen weiter nachkommt, KUPs in der Region voranzubringen und zu etablieren. So erfolgte am 22.04. in Vogtareuth die maschinelle Anpflanzung einer ca. 3 ha großen Fläche. Durch den Maschineneinsatz konnte die Pflanzzeit deutlich gegenüber einer händischen Pflanzung reduziert werden. Eine Besonderheit an dieser Fläche ist, dass sie die durchschnittliche KUP-Größe in Bayern (2014: ca. 1,1 ha) deutlich übersteigt. Gleichzeitig zur Pflanzung konnten Wolfram Kudlich (Wald21 GmbH) und Wolfgang Wimmer eine Vielzahl an Fachinformationen weitergeben und zudem auf Fragen der interessierten Besucher eingehen.

Am darauffolgenden Tag erfolgte die maschinelle Anpflanzung einer weiteren KUP in St. Leonhard am Wonneberg. Auf dieser knapp 1 ha großen Fläche wurden in Zusammenarbeit mit Wald21 und dem ASP in Teisendorf verschiedene Pappel-Sorten angepflanzt. Dies erfolgte, um einerseits die Wuchsleistungen und –fähigkeiten der Pappeln in Realität zu sehen und andererseits um einen sog. Schaugarten für weitere Interessierte anzulegen. Auch auf dieser Veranstaltung konnten Wolfram Kudlich (Wald21 GmbH), Julia List (ASP Teisendorf) und Dr. Stefan Hinterreiter (Biomassehof Achenal) eine Vielzahl an Fachinformationen weitergeben sowie auf Fragen eingehen.

Video einer maschinellen KUP-Pflanzung:

Aktuelles
01.10.2015 06:37
Einladung zur Informationsveranstaltung
Informieren Sie sich über eine mögliche Nahwärmeversorgung für Schleching.
[Weiterlesen...](#)

17.08.2015 09:29
Nachruf
Der Biomassehof trauert um seinen langjährigen Mitarbeiter Maximilian Straub.
[Weiterlesen...](#)

12.08.2015 07:20
Der neue Newsletter ist verfügbar
Hier finden Sie den neuen bzw. aktuellen Newsletter
[Weiterlesen...](#)

[News Archiv](#)

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Bundesministerium für Ernährung und Landwirtschaft
aufgrund eines Beschlusses des Deutschen Bundestages

Figure 7: Article of the first training event, published at the homepage of the Biomass Trading Centre (see <http://www.biomassehof-achental.de/news/items/neue-kurzumtriebsplantagen-wurden-gepflanzt.html>)

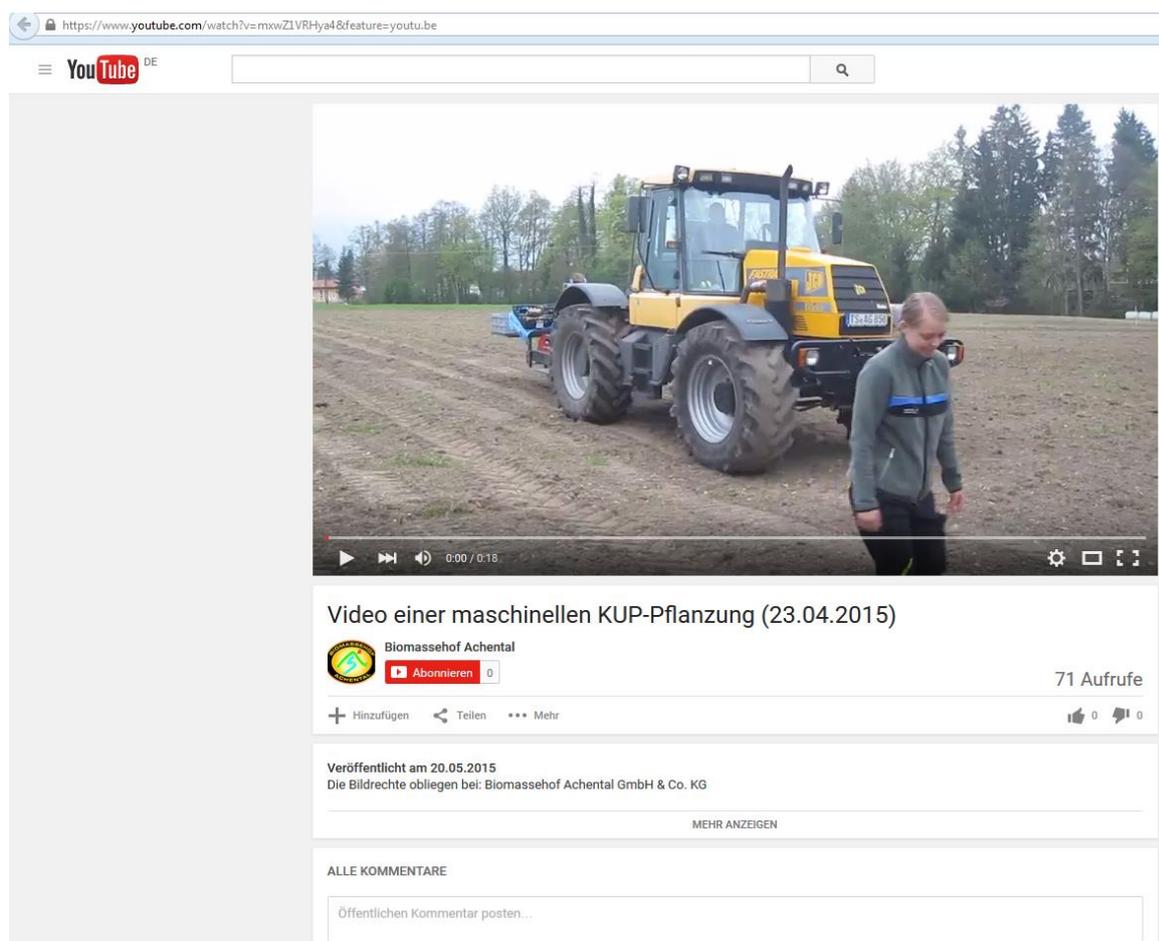


Figure 8: Video of the planting machine, published on Youtube (see <https://youtu.be/mxwZ1VRHya4>)

4 Material used in training activities

4.1 National

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

| Type of material | Format | Author(s) | Year | Title | Topics |
|------------------|--------|-------------------------|------|--|--|
| Presentation | pdf | Dr. Thomas Horlitz | 2011 | Förderung von KUP im Rahmen von Programmen zur Entwicklung des Ländlichen Raumes | Subsidies, Advantages for farmers |
| Presentation | pdf | Hans-Moritz von Harling | 2011 | Wärmeversorgung eines Industrieunternehmens aus KUP | best practice example |
| Presentation | pdf | Dr. Dirk Landgraf | 2011 | Erfahrungen bei der Akquise von Flächen für KUP; Klon- und Stecklingsauswahl | Erfahrungen bei der Akquise von Flächen für KUP, Klon- und Stecklingsauswahl |

| | | | | | |
|--------------|------------|---|------|---|---|
| Presentation | pdf | Wolfram Kudlich | 2011 | Erfahrungen bei der Anlage von KUP | Erfahrungen bei der Anlage von KUP |
| Homepage | electronic | Bundesministerium für Ernährung und Landwirtschaft | 2015 | EU-Agrarpolitik | |
| Excel-file | electronic | Landesanstalt für Entwicklung der Landwirtschaft und der ländlichen Räume (LEL) | 2010 | LEL - KUP- Rechner | |
| Article | pdf | Anja Böhrnsen - Zeitschrift profi | 2014 | Hackschnitzel vom Acker | |
| Homepage | electronic | AgroForNet | 2015 | Das Energieholz-Portal | all topics about SRC |
| Article | pdf | Martina Zacios, Jörg Niederberger, Hannes Seidl, Christoph Schulz, Lothar Zimmermann und Frank Burger | 2012 | Hydrologische und ökologische Aspekte bei Kurzumtriebsplantagen | siehe Titel |
| Article | pdf | Maria Bystricky, Frank Burger, Gabriele Weber-Blaschke und Martin Faulstich | 2012 | Bioenergie: Pappeln gut im Rennen | Advantages of poplars for SRC |
| Homepage | electronic | Frank Burger, Stefan Friedrich, Christina Schumann und Florian Zormaier | 2012 | Kurzumtriebsplantagen - LWF-Wissen 70 | all topics about SRC |
| Homepage | electronic | NABU | 2015 | Forschungsprojekt zu Kurzumtriebsplantagen | Research project about the ecological influence of SRCs |
| Article | pdf | NABU | 2012 | Naturschutzfachliche Anforderungen für Kurzumtriebsplantagen | Relevant information about the influence of SRCs on environment |
| Homepage | electronic | Fachagentur Nachwachsende Rohstoffe | 2015 | Schnellwachsende Baumarten | all topics about SRC |
| Homepage | electronic | Bayerische Amt für forstliche Saat und Pflanzenzucht (ASP) | 2015 | Energiewald | all topics about the right SRC seedlings |

4.2 European/International

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

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

5 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 can be approved according to the second training.