

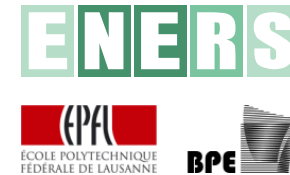
BPE - Label for sustainable biofuels (EU-CH)

Minimum requirements of the label

- ◆ compliance with the criteria defined in European Directive 2009/28/CE
- ◆ compliance with legislation (in place and in preparation) of EU Member States
- ◆ compliance with existing projects of biofuel certification in the EU
- ◆ compliance with the legislation in place in Switzerland (Oimpmin)



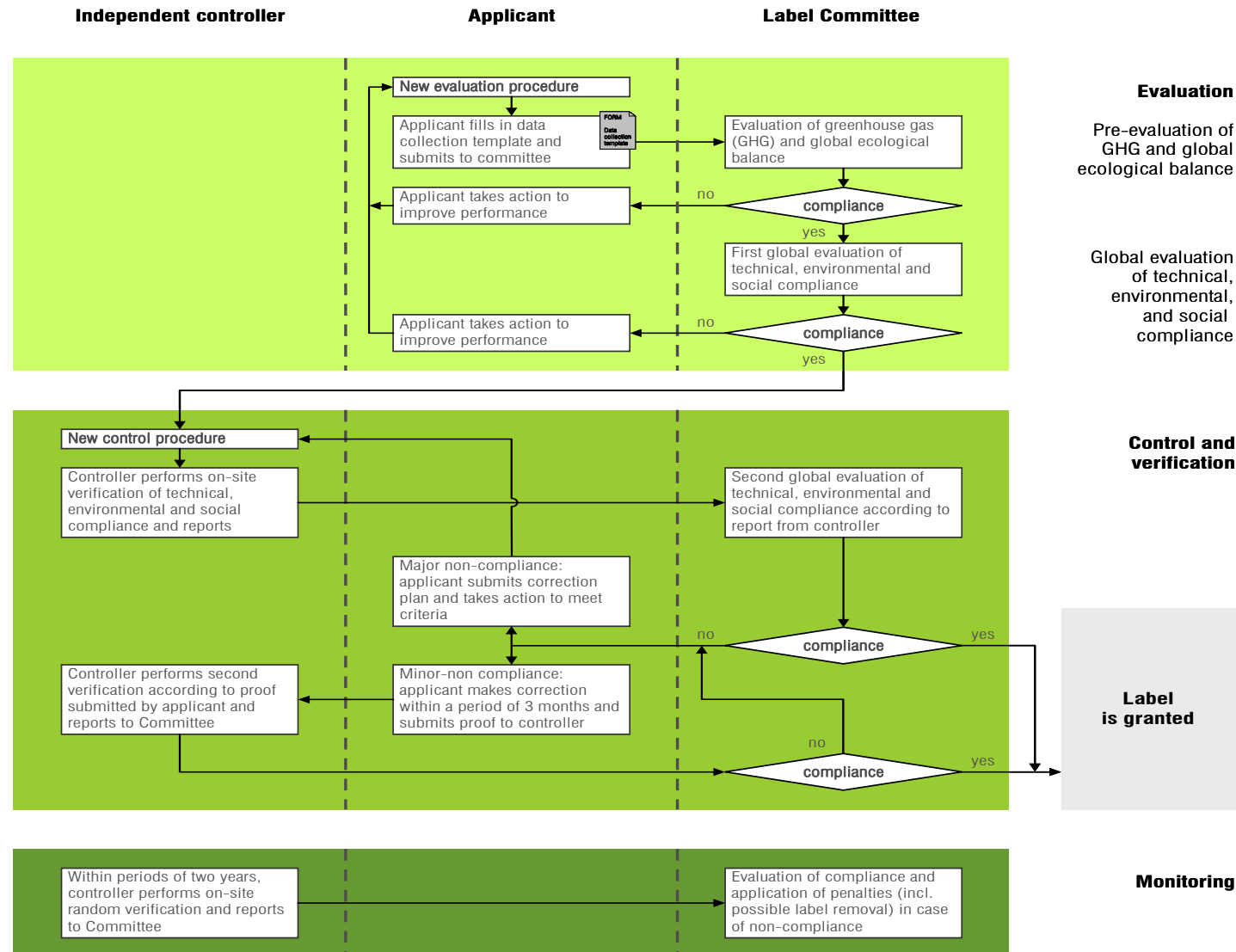
- Project partners



Definition of sustainability criteria (focus on evolving criteria)

- ◆ technical criteria (technical quality of biofuels, EN 14214-15376)
- ◆ ecological criteria (greenhouse gas emissions, water, energy, global impact, etc.)
- ◆ social criteria (competition with food, local communities, working conditions, etc.)

BPE - Label for sustainable biofuels (EU-CH)



BPE - Online evaluation tool

- ◆ user-friendly web-based interface
- ◆ immediate results and assessment
- ◆ confidentiality of data and results
- ◆ ease of use (edit/save/load profiles)
- ◆ comparison with key default pathways
- ◆ possibilities of benchmarking
- ◆ online documentation
- ◆ compatible with EU-CH methodologies
- ◆ possibility of multiple profiles per user



starlabel
sustainable biofuels

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Member login

home partners context project criteria

**be technically,
ecologically
and socially
sustainable**

Compatible with
EU legislation and sustainability standard
Swiss legislation and sustainability standard

welcome

In August 2008, the consulting company ENERS Energy Concept, in collaboration with Alcosuisse, Fair Energy and the Bioenergy and Energy Planning (BPE) research group of EPFL (former Laboratory of Energy Systems), set up a project of a label for sustainable liquid biofuels.

This initiative follows the entry into force on 1 July 2008 in Switzerland of the new mineral oil taxation Order (Oimpm) and the discussions within the European Commission and Parliament regarding the Directive on the promotion of the use of renewable energy sources, which defines sustainability criteria applicable to biofuels.

Anticipating the application of sustainability criteria in the European Union (EU) and in agreement with the legislation in force in Switzerland, the present project aims at setting up a label for fuel-bioethanol (etha **STAR**) and fuel-biodiesel (faime **STAR**) for use in the EU and the Swiss vehicle fuel market. The label goes beyond minimum ecological and social requirements under EU and Swiss legislation and includes technical requirements, thereby providing end-users with quality fuel and guarantees of best-practise (ecologically and socially) along the production chain, from the field to the tank.

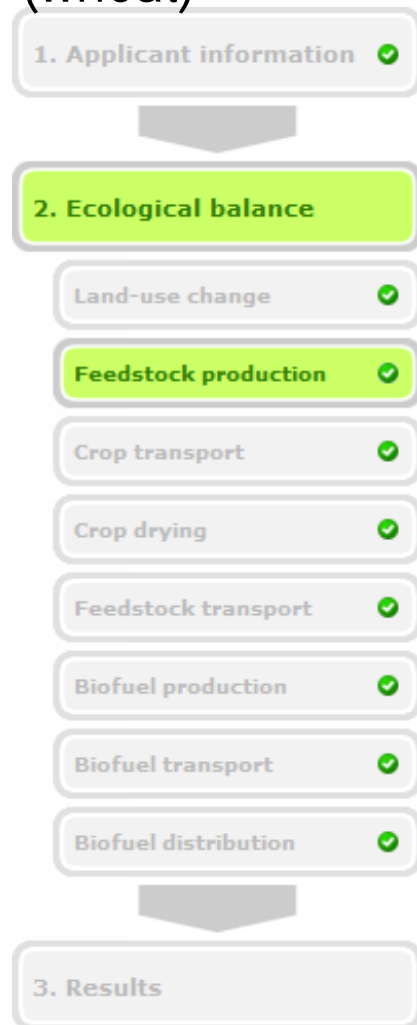
ENERS ENERGY CONCEPT | EPFL ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE | BPE | alcosuisse | fair-energy

Date: Monday 12 October (week 42)
Time: 10:41 GMT +0200
Visits : 027969

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Online evaluation tool

Example: Feedstock production (wheat)



ecological balance

[show/hide admin data]

>> Back to main menu

Inventory of feedstock production

Feedstock		
* Production country	<input type="text" value="Switzerland"/>	
Crop yield and properties		
		Default values
* Cultivated area	<input type="text" value="19300"/> [ha]	-
* Average yield	<input type="text" value="6.947"/> [t/ha.yr]	7.030
* Water content upon harvest	<input type="text" value="0.120"/> [kg/kg]	0.162
* Energy content	<input type="text" value="15.138"/> [MJ/kg]	15.138
* Carbon content	<input type="text" value="0.353"/> [kg/kg]	0.353
* Market price	<input type="text" value="0.500"/> [€/kg]	0.000
Agricultural inputs		
		Default values
* Diesel fuel	<input type="text" value="117.117"/> [kg/ha.yr]	128.120
* N-based fertilizers, as N	<input type="text" value="136.425"/> [kg/ha.yr]	149.242
* P-based fertilizer, as P2O	<input type="text" value="63.770"/> [kg/ha.yr]	69.761
* K-based fertilizer, as K2O	<input type="text" value="47.871"/> [kg/ha.yr]	52.369
* Pesticides	<input type="text" value="2.658"/> [kg/ha.yr]	2.908
Lime	<input type="text" value="0.000"/> [kg/ha.yr]	0.000
Limestone	<input type="text" value="0.000"/> [kg/ha.yr]	0.000
Ammonia	<input type="text" value="0.000"/> [kg/ha.yr]	0.000
Electricity	<input type="text" value="0.000"/> [kWh/ha.yr]	0.000
Water (irrigation)	<input type="text" value="0.000"/> [m3/ha.yr]	0.000
Supply of inputs (average distance)		
		Default values
Lorry	<input type="text" value="335"/> [km]	100
Train	<input type="text" value="150"/> [km]	100
Freight ship	<input type="text" value="125"/> [km]	0
Barge	<input type="text" value="450"/> [km]	620

Save data

Save and move on to next step

Use default values

Clear all