



# BIOEUPARKS

Local supply chain  
Kozjansko Regional Park



**Podsreda, 24. 11. 2015**



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Kozjanski  
park

- **Kozjansko Regional Park** is 206 km<sup>2</sup> big area with very dispersed population.
- **Population:** 10.700 inhabitants
- **Local authorities:** 5 municipalities
- 69% Natura2000
- 48% of forest
- very high biotic diversity
- 85 natural values
- Good park practices



**Kozje Municipality** is 89,5 km<sup>2</sup> big area – in most part a hilly-mountainous area

- Population: 3191 inhabitants
- Six local communities
- More than 80% of households are still heated by wood
- The larger settlements in the municipality are Kozje and Lesično





**Topko energija d.o.o** – founded in 2012

**The aim:** building a multi- purpose centre for the needs of district heating in the Kozje settlement

**First phase:** carried out interviews with the municipality and the residents of three apartment buildings and with the owners of individual houses

**In April 2013:** began implementing our project BIOEUPARKS – good connection with Topko Energija



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Potential investor included in our events, round tables and individual meetings



The investor started preparing documentation

The operations was partially founded from

- EU – Cohesion found
- Republic of Slovenia
- Topko energija



The system outlines the buildings:

-a primary school with multi purpose hall, a health centre, a kindergarten, an agricultural cooperative, two blocks of flats and fifteen individual houses.

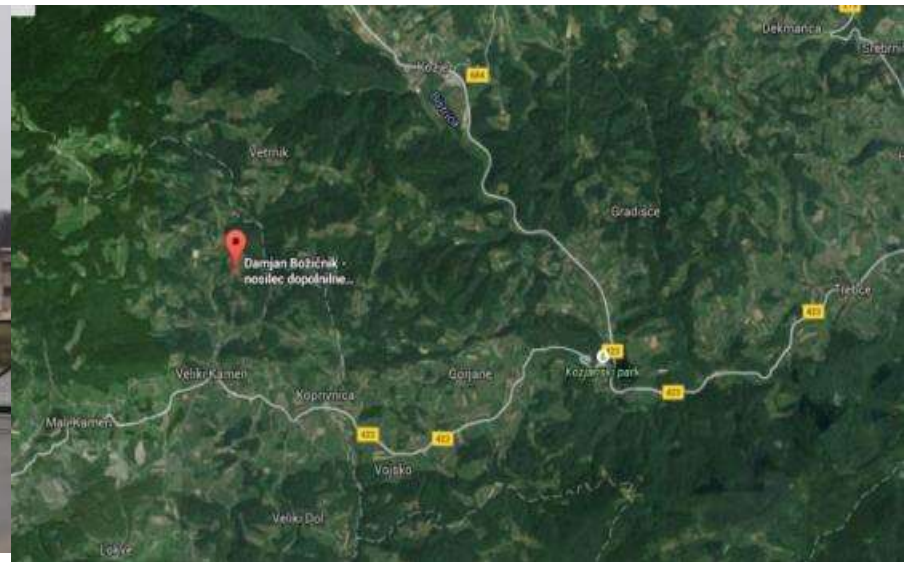


- The district heating system start to operate in the heating season 2013/14
- All wood biomass was from Croatia
- Signed memorandum





- In September 2014 Topko energija signed a contract with one local supplier of wood biomass from the protected area
- In the 2014/2015 heating season Topko energija obtained all off its necessary biomass **exclusively from the protected area.**



- For the heating season 2015/2016 – contract with company GOZD Ljubljana – with our help: biomass for district heating from state forests located within the protected area



## New potential investors and consumers of biomass

- The larger settlements within the protected area are:
  - Podčetrtek (535 inhabitants)
  - Bistrica ob Sotli (282 inhabitants)
  - Bizeljsko (666 inhabitants)
  - Pišece (312 inhabitants)

## New heating system for our administrative building



## Problems:

- A lack of knowledge and false altitude toward quality standards.
- A large number of small scale forest owners
- Common/joint supply / sales at biomass are not organized
- Methods for ensuring long time (sustainable) quantities of raw materials for the production of biomass

## Problems:

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- A large number of small scale forest owners
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# SUSTAINABILITY CRITERIA



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## **Basis for sustainability monitoring (legal):**

### **1. The Act on Forests of the Republic of Slovenia ( OG RS[30/1993](#), [13/1998](#), [67/2002](#), [110/2007](#))**

Articles 1 (in paragraph 1), 3 (in paragraph 2), 7 (in paragraph 1), 18 (in paragraph 1), 77 (in paragraph 1), 79 (in paragraph 1)



## Sustainability criteria monitored

- **Environmental:** Biomass production or extraction shall have neutral or positive effects on biodiversity at the landscape level.
- **Social:** The production of biomass for energy shall only occur at sites where it does not threaten local/regional food supply.
- **Economic:** Bio energy systems should preferably have positive effects on the local economy.

## Method of monitoring

- **Owners** of forests shall have the right to participate in procedures for adopting forest management and wildlife management plans and in the preparation of forest silviculture plans. Their needs, proposals and requests shall be respected as far as is possible and consistent with ecosystem and legal restrictions.
- **Forest management** and silviculture planning are the responsibility of the Slovenia Forest Service.
- **The composition** of plans is more specifically detailed in the **Regulation on Forest Management and Silviculture Plans** (Official Gazette of the Republic of Slovenia, Nos. 5/1998, 70/2006). The managers of the protected area participate in drafting these plans for protected areas.



## Responsible for monitoring

- Slovenian forest service
- Forestry Inspection
- The Institute of Republic of Slovenia for Nature Conservation
- Kozjansko Regional Park





## 2. Act for memorial Park Trebče ( OG RS 1/81, 42/86, 8/90 )

### Sustainability criteria monitored

**Social:** Supporting local development

**Responsible for monitoring:** KRP



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### **3. The Forest Development Programme of the Republic Slovenia**

#### **Method of monitoring**

- Adopted by the National Assembly, which defines the national policy on close-to-nature forest management, guidelines for the preservation and development of forests and conditions for their exploitation or multipurpose use.



## Responsible for monitoring

- Slovenian forest service
- Slovenian Parliament



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#### **4. Nature Conservation Act (OG RS No. [56/99](#), [31/00](#), [119/02](#), [22/03](#), [41/04](#), [96/04](#), [46/14](#))**

Article 1, Article 16, Article 33 (in paragraph 2), Article 59 (in paragraph 2), Article 61 (in paragraph 1), Article 97 (in paragraph 2), Article 101 (in paragraph 2)

## Sustainability criteria monitored

**Environmental:** Biomass production or extraction can only be performed in protected areas or areas with high conservation values if it is part of a management plan to protect biological values.

**Social:** The possibilities of a secured long-term supply of biomass shall be considered and demonstrated when establishing a heat or power plant

**Economic:** Development of local energy systems that enable combinations of different renewable energy sources shall be encouraged.





## Method of monitoring

The annual programme of work of protected areas –  
monitoring in the wild



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## Responsible for monitoring

- Kozjansko Regional Park
- The Institute of Republic of Slovenia for Nature Conservation
- Environmental Inspections



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## 5. Natura2000 Management Plan for Slovenia for the period 2014-2020



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## Sustainability criteria monitored

**Environmental:** Biomass extraction shall, if possible, be conducted in relation to other management practices in the landscape so as to sustain or enhance biodiversity, including the regional recovery and persistence of endangered species

**Social:** Negative effects of competition between energy, food, fodder and material use should be minimized

**Economic:** Development of local energy systems that enable combinations of different renewable energy sources shall be encouraged

## Method of monitoring

- **Analysis** of the Operational programme - Natura 2000 management programme for the period from 2007 to 2013 (Operational programme) for the forestry sector comprises of several lots.
- **The base** paper is a substantive overview of the most important legal instruments that enable the management of Natura 2000 sites in the forest area.
- **Emphasis** is given to the Forest Act and subordinate regulations (Rules on the protection of forests, Rules on financing and co-financing the forest investments).



## Responsible for monitoring

1. Kozjansko regional Park
2. The Institute of Republic of Slovenia for Nature Conservation
3. Slovenian forest service
4. Slovenian forest Institute
5. Chamber of Agriculture and Forestry of Slovenia
6. Ministry of the Environment and Spatial Planning

