Actions of the General Directorate of Environment

NOVAGRIMED Project

Murcia, July 8-9th 2011
# PROGRESS UNTIL 2011

## TECHNICAL ISSUES
1. Studies about the usable forestry biomass volume (3)
2. Northwest Murcia Forest Fire Prevention Plan

## LEGAL ISSUES
3. Progress in biomass harvesting and energetic crops
4. Grants to forestry owners inside the Rural Development Plan

## TECHNICAL ISSUES
5. Management of 6,000 hectares (PROFORBIOMED Project)
6. Setting up of a traceability system (PROFORBIOMED Project)
PROGRESS UNTIL 2011: Technical issues

1. Estimate of sustainable forestry biomass production

Main target: sustainability of forestry biomass production

Related to this, it could be harvested, as a maximum, the annual growth of the forest, in the way the current global biomass won’t be reduced.

The expected sustainable production of biomass in the study areas is about 172,366 annual Tons, considering public and private owners.
PROGRESS UNTIL 2011: Technical issues

1. Estimate of sustainable forestry biomass production

Nowadays, the percentage of harvesting in Murcia Region is set in the 2% of the annual growth.

Harvesting data percentage in another Spanish Regions are:

- Comunidad Valenciana: 8%
- Andalucía: 26.5%
- Cataluña: 19%
- Castilla y León: 20.1%
- La Rioja: 9.8%
- Aragón: 6.8%
- Galicia: 78.4%

It’s considered that could be reached a harvesting rate of 30-35 % of the annual growth, which would mean a harvesting of 50,000-60,000 biomass Tons.

Considering the Pinus halepensis PCI (Kcal/Kg), with 60,000 Tons it could be reached an energy production of 8 MW (ARGEM Data).
PROGRESS UNTIL 2011: Technical issues

2. Northwest Murcia Forest Fire Prevention Plan

Fire Preventive Lines Net

<table>
<thead>
<tr>
<th>COMARCA FORESTAL</th>
<th>Nº DE ELEMENTOS ( Ud)</th>
<th>LONGITUD (m)</th>
<th>SUPERFICIE (ha)</th>
<th>PORCENTAJE DE EJECUCIÓN EN SUPERFICIE (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ejecutados</td>
<td>Por Ejecutar</td>
<td>Total</td>
<td>Ejecutados</td>
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<tr>
<td>CALASPARRA</td>
<td>7</td>
<td>33</td>
<td>40</td>
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<tr>
<td>CARAVACA</td>
<td>30</td>
<td>34</td>
<td>64</td>
<td>100.085</td>
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<tr>
<td>CEHEGÍN</td>
<td>16</td>
<td>38</td>
<td>54</td>
<td>45.565</td>
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<tr>
<td>MORATALLA</td>
<td>36</td>
<td>89</td>
<td>125</td>
<td>156.760</td>
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<tr>
<td>MULA</td>
<td>16</td>
<td>42</td>
<td>58</td>
<td>33.135</td>
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<tr>
<td>TOTAL</td>
<td>105</td>
<td>236</td>
<td>341</td>
<td>379.870</td>
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</table>
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LEGAL ISSUES
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TECHNICAL ISSUES
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3. General Directorate Natural Heritage Resolution to approve the Instruction about the interpretation of the General Rules for the study and drafting the Technical Plans for Sustainable forestry Management Plans in the area of the Murcia Region.

- Waste forestry biomass
- Profitable areas for forestry biomass harvesting have a canopy cover higher than 65%, and are located in areas with moderate slope (less than 35%).
- Energetic forestry crops (unsuitable word)
- The main harvesting of a plot is considered as energetic forestry biomass when the totally of its timber and waste are destined to energy generation during 15 consecutive years.
- Technical documents needed to declare Energetic Crops (PORF, Management Plans, etc.)
- Energetic forestry crops Register
- Issuing of an Energetic Forestry Crops Certificate
Biomass types according to Royal Decree 661/2007

- **Energetic Crops**
  - b.6.1  **155 €/MWh**

- **Forestry biomass**
  - b.6.3  **125 €/MWh**

- **Forestry Industry waste**
  - b.8.2  **69 €/MWh**

Fuente: RWE
PROGRESS UNTIL 2011: Legal issues

4. Order about Grants to forestry owners inside the Rural Development Plan

- 226 Measure of the Rural Development Plan (FEADER)

  Grants for forestry works directed to forest fires prevention

- 227 Measure of the Rural Development Plan (FEADER)

  For Natura 2000 Sites
**FUTURE CHALLENGES (2012-2013):**

<table>
<thead>
<tr>
<th>TECHNICAL ISSUES</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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<tbody>
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<td>1. Studies about the usable forestry biomass volume (3)</td>
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<td>2. Plan Prevención Incendios Noroeste</td>
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| LEGAL ISSUES                                                                    |      |      |      |      |
|---------------------------------------------------------------------------------|      |      |      |      |
| 3. Progress in biomass harvesting and energetic crops                           |      |      |      |      |
| 4. Grants to forestry owners inside the Rural Development Plan                  |      |      |      |      |

| TECHNICAL ISSUES                                                                 |      |      |      |      |
|---------------------------------------------------------------------------------|      |      |      |      |
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FUTURE CHALLENGES: Technical issues

5. Forest Management in order to declare energetic crops

- **Traceability**: ability to verify the history, location, or application of an item by means of documented recorded identification.

- **Management Plans**: highly necessary tool to guarantee a sustainable and profitable way of manage forest resources, through conservation of natural heritage.
FORESTRY MYTHS AND LEGENDS

1. Sparse biomass production of Murcia forests?

Tree growth since its origin (after a fire) until the previous date of a silvicultural treatment (10 years period)

Tree growth after the silvicultural treatment (4 years period)

Diminution of competition effects can be clearly observed.
FORESTRY MYTHS AND LEGENDS

2. Damages caused by silvicultural treatments?

Treated plot

40 different species detected

Plot without treatment

25 different species detected
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