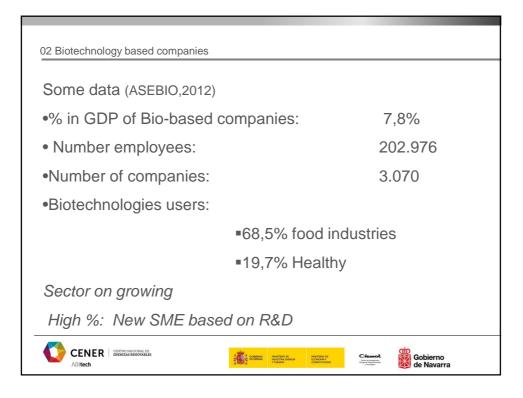
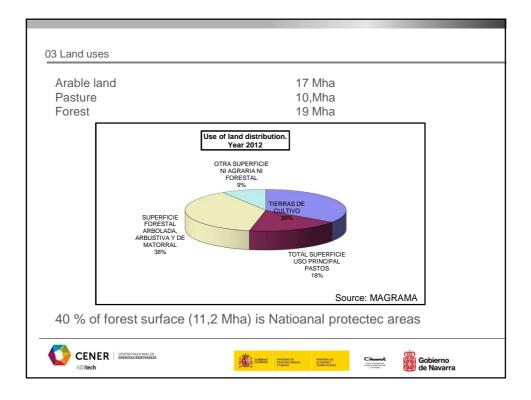


01 General data	
Population	46.507.760 ( January 2014)
	<ul><li>Male :22.874.155</li><li>Female: 23.633.605</li></ul>
• Area	505.964 Km <sup>2</sup>
Unemployment rate	23.8% (October 2014)
GPD at market price	1.022.998 Million € (2013)
Risk of population agin	g
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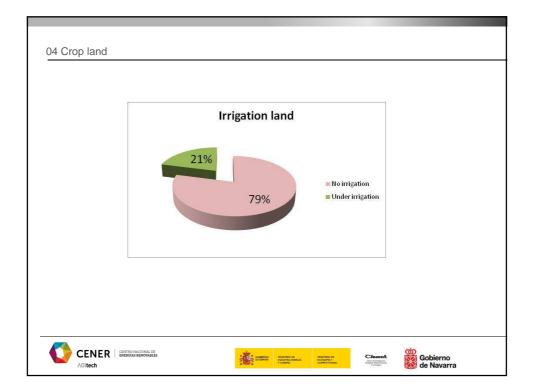


VAB a coste de factores y empleo de los sectores ind			
Sector	VAB (M€)	Ocupados	
Metalurgia	4.461,7	63.462	-
Productos minerales no metálicos diversos	6.096,8	117.406	
Industria química y farmacéutica	11.399,4	119.981	
Fabricación de productos metálicos, excepto maquinaria y equipo	10.606,6	251.091	
Maquinaria y equipo mecánico	5.844,4	102.143	
Material y equipo eléctrico, electrónico y óptico	5.161,6	96.601	
Vehículos de motor	8.447,2	139.446	***
Material de transporte, excepto vehículos de motor (*)	3.290,4	39.629	
Alimentación	15.841,5	311.877	
Bebidas y tabaco	4.856,4	49.266	
Textil, confección, cuero y calzado	3.969,9	123.144	
Madera y corcho	1.768,7	57.484	
Papel y artes gráficas	6.075,9	111.382	***
Caucho y materias plásticas	5.184,0	93.659	
Industrias manufactureras diversas	3.392,3	104.782	
TOTAL	96.396,9	1.781.353	

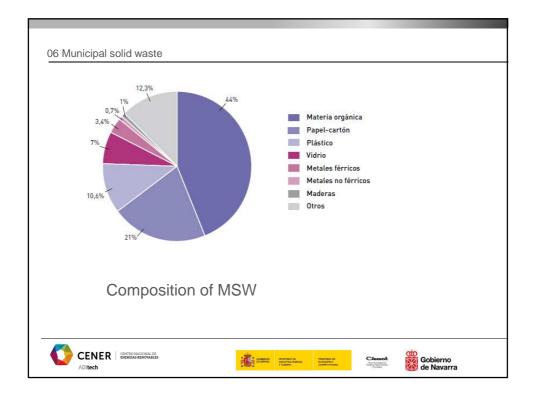


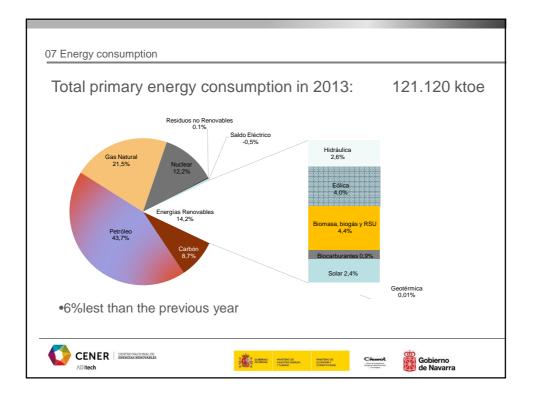


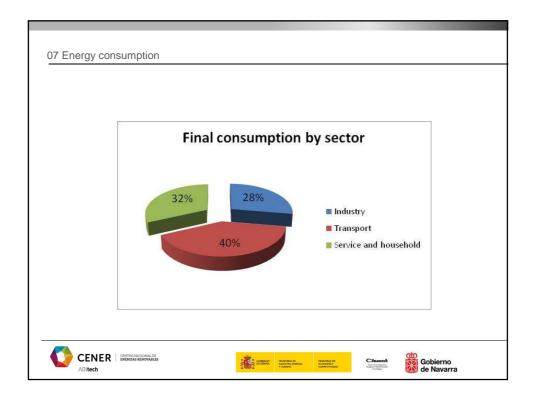
04 Crop land	
Arable land :	
Herbaceous crops	8,7 Mha
Cereal	6,0 Mha
Feed crops	1,0 Mha
Sunflowers	0,7 Mha
Woody crops	4,7 Mha
Olive	5 Mha
Vineyard	1 Mha
Almond	0,5 Mha
Critics	0,3 Mha
Set aside land	3,8 Mha

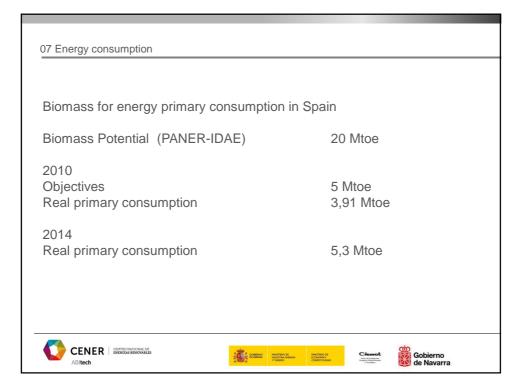


05 Biomass potential				
Potential Crops for Bic	omass ass	essmen	t (IDAE)	
Source	Biomass (t/año)	Biomass (toe/año)		
Herbaceous crops in arable land	17.737.868	3.593.148		
Woody crops in arable land	6.598.861	1.468.173		
Woody crops in forest area	15.072.320	1.782.467		
Total	39.409.049	6.843.788		
	Biomass (t/year)			ar)
		38%	45%	<ul> <li>Herbaceous crops in arable lan</li> <li>Woody crops in arable land</li> <li>Woody crops in forest area</li> </ul>
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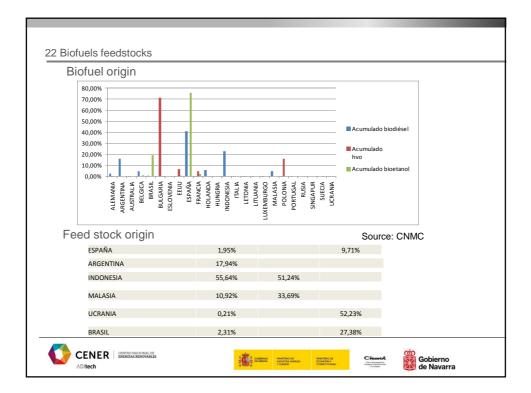




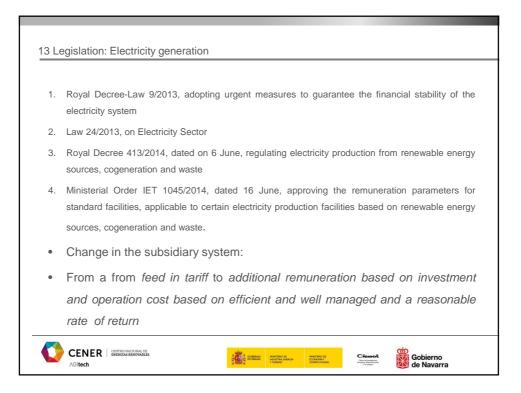




11 Biofuels certification
• Sistema de Información para la Certificación de Biocarburantes/ Information system for the
Biofuels certification (SICBIOS- CNMC)
Order ITC / 2877/2008, of 9 October, establishing a mechanism for promoting the use of biofuels and other renewable fuels for transport, Article 6 refers to the <b>National Energy Commission</b> is established as the responsible entity the issuing of biofuels, managing <b>the certification mechanism and the monitoring and enforcement of the obligation for biofuels in Spain</b> and in his second final provision authorizing it to issue the necessary circulars to that effect.
REMARKS:
•But not a real sustainability certification scheme.
<ul> <li>Declaration of producers/users to control the commitment of mandatory objectives.</li> </ul>
•There is a tool to calculate GHE: Calcu-GEI
Not trazabilyty
•Only one private company has developed its own voluntary scheme. ABENGOA
<ul> <li>National standardization Comite AEN/CTN – 303. Mirror CEN TC 383, but until no not standard only technical specification</li> </ul>
CENER CENER CONTROLLER ADltech



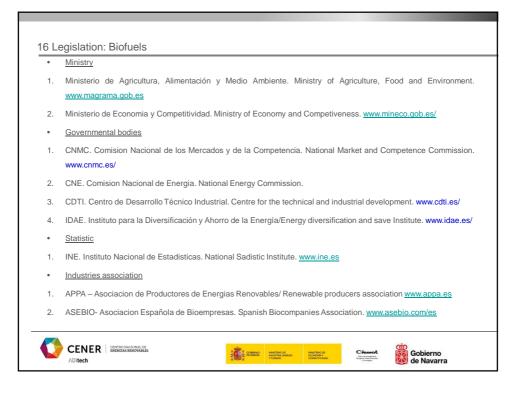
Feedstock	Biodiésel	Acumulado hvo	Bioetanol	
A. ANIMAL		4,45%		
A. COLZA	8,45%			
ALCOHOL VÍNICO			1,13%	
A. FRITURA	2,43%			
A. GIRASOL	0,00%	0,26%		
A. OLIVA	0,08%			
A. PALMA	67,55%	95,29%		
A. SOJA	21,49%			
CAÑA AZÚCAR			21,26%	
MAÍZ			76,48%	
REMOLACHA			0,06%	
SEM. DE CEBADA			0,15%	
SEM. DE TRIGO			0,91%	
SEM. DE CEBADA			0,15%	



1.	Order ITC/2877/2008 establishing a support scheme for biofuels and other renewable fuels for transport				
2.	Resolution dated 8 July 2013, by the Secretary for Energy, updating for 2013 values used in calculation formulas of compensatory payments related to the biofuels obligation fulfillment, included in Order ITC/2877/2008				
3.	Law 1172013, to support entrepreneurs and boost economic growth and job creation (establish mandatory goals for biofuels for 2013 and coming years)				
4.	Resolution dated 27 December 2013, by the Secretary of State for Energy, updating the annex ITC 28/77/2008				
5.	Order IET/822/2012 governing the allocation of biodiesel production volumes for computing compliance with mandatory biofuels targets				
6.	Order IET/2736/2012, amending Order IET/822/2012 governing the allocation of biodiesel production volumes for computing compliance with mandatory biofuels targets.				
7.	Resolution dated 24 January 2014,, by the Secretary of State of Energy, publishing the definitive list of plants or production units with an allocated productions quantity of biofuels				
•	Selection process of biodiesel plant in order to allocate production quotas for the mandatory target				
⇒	A way to push the local production				







•Higł	n area of arable land
•No s	so big crops yield. Irrigation is needed for higher yields
•lmp	ortant food industries. High amount of waste (olive oil, juice, preserved food)
	nass export to other EU countries. (Better prices), but at the same time rt for Biofuels production.
•Low	subsidies in renewable electricity sector . STOP promoting
	•Biomass is the eternal promise
	possibilities of financing investment. Crisis but also changes in subsidy ework .
•No (	continuity of R & D between changes in government
•Bett	er coordination in R& D between central and regional governments
•You	ng biotechnology companies growing

