

EUROPEAN BIOENERGY FUTURE 27th April 2018, Athens

Spanish Biomass Association and the development of the biomass market in Spain Pablo Rodero Masdemont, AVEBIOM







This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No. 691763

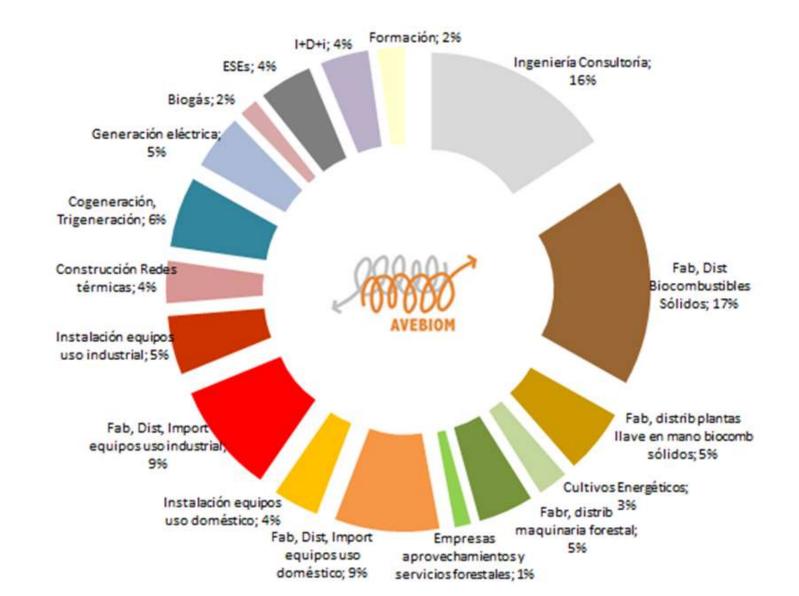


AVEBIOM represents all the companies of the whole supply chain of the bioenergy



The Spanish Biomass Association (AVEBIOM) was created in 2004 with the aim of promoting the development of the bioenergy sector in Spain





14 years promoting the biomass sector International presence

- AVEBIOM is Full Member of AEBIOM and for several years is represented in the Board
- AVEBIOM is funding member of the EPC
- AVEBIOM is Full Member of the World Bioenergy Association (WBA)











https://www.expobiomasa.com/en







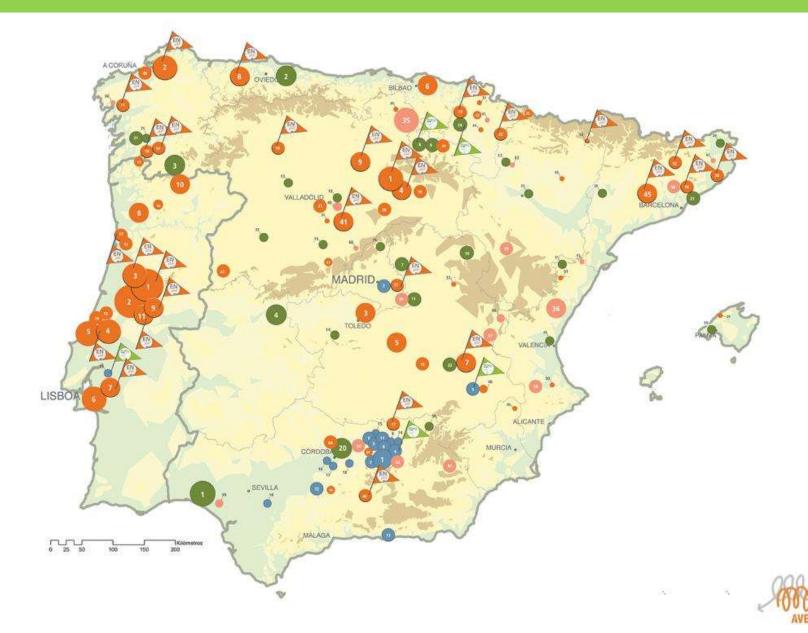


www.bioenergyinternational.es

- Internationalization ?
- The future is digital ?



Solid Biofuels Map for the Iberian peninsula



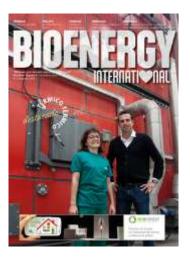
We contribute to the PROFESSIONALIZATION and VISIBILITY of the sector













We contribute to the DIFUSION to society of the advantages of the use of BIOMASS





BiO









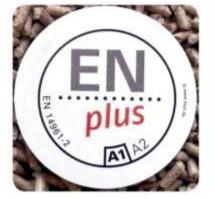
Observatorio Nacional Calderas de Biomasa

AVEBIOM has been carrying out the Observatory (ONCB) since November 2009 collecting information on biomass facilities.

These references have led to establish estimated figures, accumulated until the end of 2015, of around 160,000 devices, with an installed capacity of 7,275 MW.

www.observatoriobiomasa.es













Stop inefficient technologies

Biomass is not a return to the past





Benefits of modern biomas technologies

- Boilers with advanced technologies and automated functions
- Easy control and maintenance. I.E. Turning on boilers with SMS
- High energy yields between 75 and 95% efficiency
- Standardized fuels (pellets, olives stones, etc.)









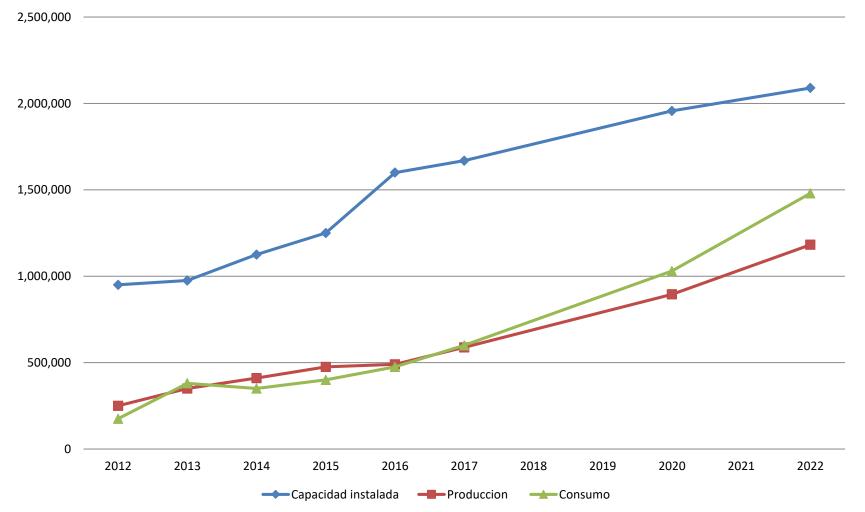
Pellet market evolution

	2012	2013	2014	2015	2016	2017	2020	2022
Capacity	950.000	975.000	1.125.000	1.250.000	1.600.000	1.668.800	1.957.000	2.090.000
Production	250.000	350.000	410.000	475.000	490.000	588.000	895.000	1.182.000
Consumption	175.000	380.000	350.000	400.000	475.000	600.000	1.030.000	1.480.000
Nº plantas	40	42	45	79	82	83	90	100

- The average factory in Spain has a production capacity 17,500 tons → domestic market
- Real average production in Spain 8,200 tons / year
- 85% of the spanish production is certified Enplus A1 (403.000 tons 2016)
- Very high quality of the pellets (surprise inspections)



Pellet market evolution





Quality & Sustainability Certification of Mediterranean biomass fuels

Mediterranean Biomasses Certification System







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BIOMASS TRADE CENTRE 2

http://www.biomasstradecentre2.eu/





5 Logistic Centers in 2011. 16 in 2014

Production: 240.000 tn/y wood chips for the domestic market



Hard to estimate industrial wood chip: estimación 3.000.000 tn/y

Exports 100 – 150ktons/y de 100 – 150.000 for electric generation

No imports



Solid Biofuels Price Index



Publication on the AVEBIOM's website of the Biomass Price Index (IPB) in Spain. http://www.avebiom.org/es/indice-precios-pellet

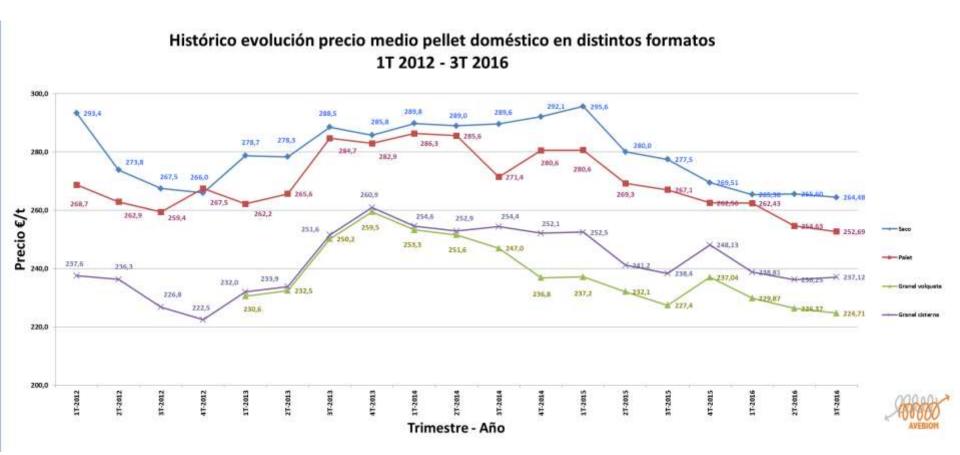
Since January de 2012, every 3 months AVEBIOM's published the **Domestic Pellet Price index** for 3 formats (bag, pallet and bulk)

Since October 2014, AVEBIOM is publishing every 3 months:

- Heating Wood-Chips Price Index in Bulk format
- Olive Stones Price Index for domestic use in 3 formats (bag, pallet and bulk)



Solid Biofuels Price Index



http://www.avebiom.org/es/ind-precios-biomasa



Solid Biofuels Price Index



Índice de precio del Pellet doméstico en España 2014

PELLET	Índice Precio Biomasa	2012		20	-	
				3T	41	2014
Saco 15 Kg	Precio medio (€/saco)	4.13	4.24	4.34	4.38	4.35
	c€/k₩h			6.08	6.13	
				0.2%	0.9%	
Palet		264.61	273.86	271.42	280.57	280.98
				5.70	5.89	
				-5:0%	3.4%	
Granel (volquete)		229.29	243.19	247.00	236.84	Z47.18
				5.06	4.85	
				-1.8%	-4.1%	
Granel (cisterna)		230.79		254.39	252.11	253.50
				5.34	5.29	
				0.6%	-0.9%	

elaboración: AVEBIOM. Publicado en www.bioenergyinternational.es (diciembre 2014)

ACTULA	Indice Precio		2014	2015		
ASTILLA	Biomasa	3T 4T		Anual	π	Anual
Granel	Precio medio (€/ton)	108.76	104.4	106.58	108.01	105.01
	1PB trimestral	-4.0%			3.5%	
HUESO						
Saco 15 kg	Precio medio (€/tun)	200.54	194.17	197.35	196.12	196:12
	1PB trimestral	-3.0%			1.0%	
Palet	Precio medio (€/ton)	200.64	194.17	197,40	194.92	194.92
	IPB trimestral		-3.0%		108.01 3.5% 196.12 1.0% 194.92 0.4% 172.66 0.6% 186.86	
Volquete	Precio medio (€/ton)	178.12	171.19	174.91	172.66	172.66
	IPB trimestral	-4.0%			0.6%	
Cisterna	Precio medio (€/tun)	183.74	181.48	182.61	186.86	186.86
	1PB trimestral	-1.0%			3.0%	

Indexterior: AVERIDM





Public Policies to Establish the Development of Biomass for Thermal Uses



BIOMCASA

Desde el año 2009 financiando a Empresas de Servicios Energéticos para la realización de instalaciones de biomasa térmica para producción de agua caliente y/o calefacción y/o refrigeración.

Resultados:

Biomcasa

64 empresas habilitadas 71 proyectos 23 MW 9,7 millones € de inversión Agotado presupuesto

Biomcasa II

41 empresas habilitadas
32 proyectos
12 MW
5,4 millones € de inversión
Con fondos disponibles







MINISTERIO DE INDUSTRIA, ENERGÍA Y TURISMO



Thank you for your attention









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