BIOFUELS IN ARGENTINA



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BIOFUELS OPPORTUNITIES

- Biodiesel
- Ethanol
- Biogas
- Others





COMPARATIVE ADVANTAGES FOR THE DEVELOPMENT OF BIOFUELS IN ARGENTINA

- Plenty of raw materials and strong suppliers
- Argentina is an **Export Oriented Country**. Domestic consumption is 5% of total Oilseed production. So, **95%** of total oilseed production goes to the export market. In 2007 it will produce 6,5 mill ton of soybean oil, **6,2 mill ton exports** and the remainder 0,3 mill tons for domestic market
- The new Biofuels Law promote the investment in new projects. The same plant that crush soybean and export the SBO, now produce biodiesel, and export it.





COMPARATIVE ADVANTAGES FOR THE DEVELOPMENT OF BIODIESEL IN ARGENTINA

- Large soybean supply, with a 3 million-ton-growth per year since 1996. 50 million tons in 2008 with 18% of oil, 9 million tons of soybean oil
- Large sunflower supply: 4 million tons with 50% of oil
- **Highly competitive agroindustrial complex**. The main international parties of the business have new, large scale plants installed in the ports of the soybean region. Potential idle capacity.
- Possibility to import soybean from Paraguay, Brazil, Bolivia, and Uruguay.
- Export Oriented Country as a Strong Culture
- The possibility of extending the agricultural border and developing alternative energetic crops that can grow in different climates

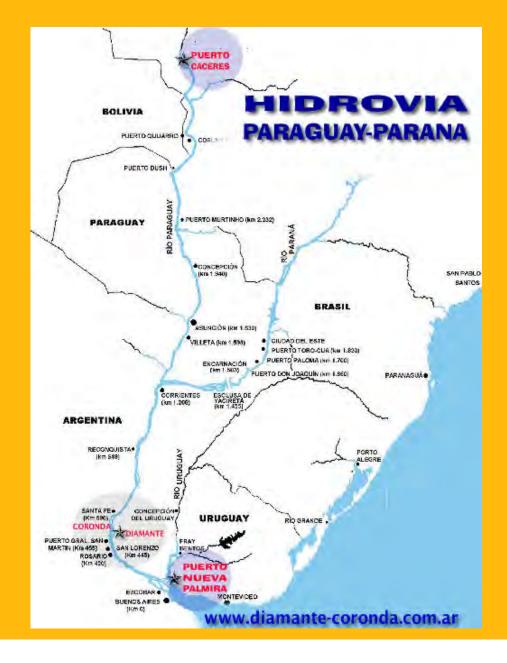
















CRUSHING CAPACITY OILSEDS

CRUSHING CAPACITY	156700 M.Tons		
Basis 330 Days/Year	51711000	M.Tons / Year	





To Understand Soybean Oil Market of Argentina

	Production		Soybean Oil			
Crop Year	SBS Production	Crushing Industry	Total Production	Domestic Use	Export Surplus	Variation
1997 2007	11700 47000	11000 34500	1980 6210	50 200	1930 6010	4080
2008	50000	38000	6840	300	6540	530
2017	60000	58000	10440	600	9840	3300





Soybean Oil World Demand 2001/07

	Evolu	cion Produ	cción-Comercio	o-Consumo	ACEITE DE S	OJA
			2000/01-2006/			
	Producción	%	Comercio	%	Consumo	%
2000/01	25,21		7,64		25,21	
2006/07	34,72		9,49		35,24	
Mundial	9,51	38%	1,85	24%	10,03	40%
2000/01	8,29		0,79		7,55	
2006/07	8,97		0,54		8,62	
United States	0,68	8%	-0,25	-32%	1,07	14%
Principales Exportadores						
2000/01	3,07		2,98		0,11	
2006/07	5,95		5,48		0,46	
Argentina	2,88	94%	2,5	84%	0,35	318%
2000/01	4,12		1,42		2,89	
2006/07	5,21		2,11		3,12	
Brazil	1,09	26%	0,69	49%	0,23	8%
Principales Importadores						
2000/01	2,37		0,9		3,27	
2006/07	6,76		2,1		8,76	
China	4,39	185%	1,2	133%	5,49	168%
2000/01	2,84		0,58		1,86	
2006/07	2,46		0,6		2,75	
EU-25	-0,38	-13%	0,02	3%	0,89	48%





Soybean Oil Demand 2001/07

- In the last 7 years world soybean oil demand has been increased in 1,85 mill tons
- In the same period Argentina has increased its soybean oil exports in 2,5 mill tons

 CONCLUSION: Argentina has captured 100% of the increasing in global demand.





Soybean Meal World Demand 2001/07

	Evolu	cion Produ	cción-Comercio	-Consumo	HARINA DE S	O 14
	LVOID	Evolucion Producción-Comercio-Consumo HARINA DE SOJA 2000/01-2006/07				
	Producción	%	Comercio	%	Consumo	%
2000/01	110,26		39,06		110,51	
2006/07	148,88		50,01		149,18	
Mundial	38,62	35 %	10,95	28%	38,67	35 %
2000/01	34,69		6,49		28,3	
2006/07	37,82		7,03		30,94	
United States	3,13	9%	0,54	8%	2,64	9%
Principales Exportadores						
2000/01	13,75		13,24		0,48	
2006/07	24,34		23,64		0,75	
Argentina Argentina	10,59	77%	10,4	79%	0,27	56%
2000/01	17,38		10,52		6,96	
2006/07	21,71		12,5		9,36	
Brazil	4,33	25%	1,98	19%	2,4	34%
Principales Importadores						
2000/01	11,49		1,5		12,98	
2006/07	29,95		0,7		30,25	
China	18,46	161%	-0,8	-53%	17,27	133%
2000/01	13,84		18,9		26,45	
2006/07	10,82		22,55		32,62	
EU-25	-3,02	-22%	3,65	19%	6,17	23%





Soybean Meal World Demand 2001/07

 In the last 6 years soybean meal world demand has been increased in 10,95 mill tons

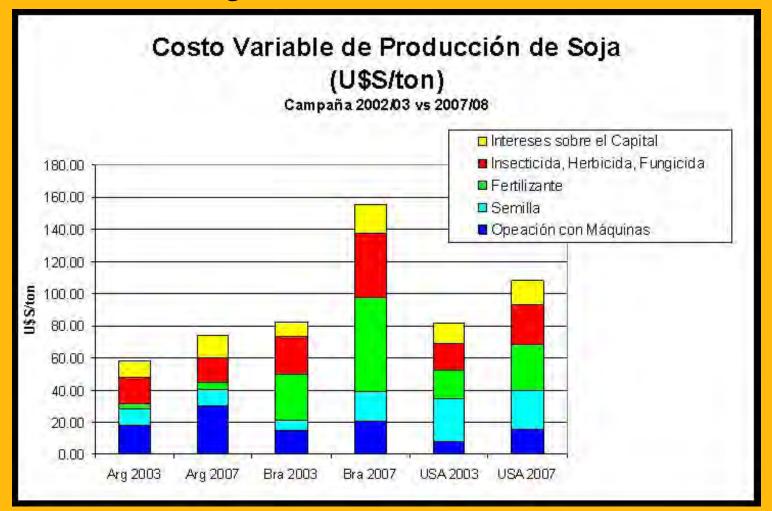
 In the same period Argentina has increased its soybean meal exports in 10,4 mill tons

 CONCLUSION: Argentina has captured 95% of the increasing in global demand.





Argentina has the lowest production cost of soybean of the world

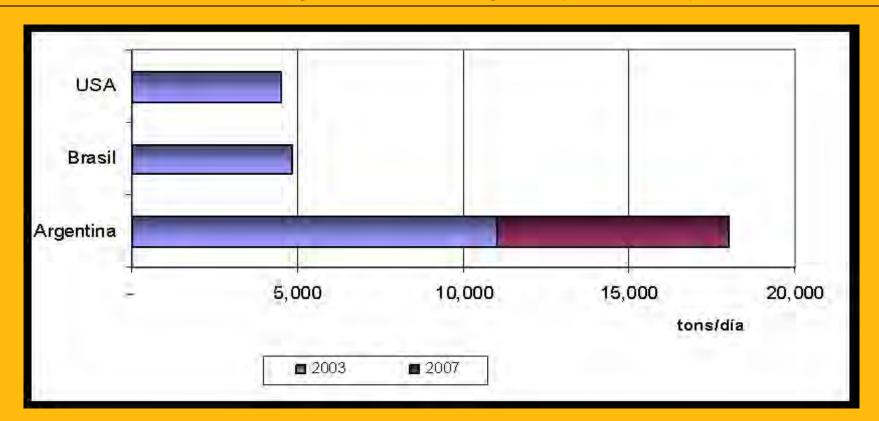






Why Argentina is the most competitive country in the soybean crushing industry

Because: It has the highest crushing daily capacity of the world.







OPPORTUNITIES

- The big opportunity is the international market of biodiesel
- 1.3 billion of m3 of diesel are consumed annually. (world)
- The total production of vegetable oils amounts to 130 million tons, only 10%
- Argentina is the world's largest exporter of vegetable oil (from oilseeds) and has idle capacity





GOOD SUPPLY OF GRAINS AND VEGETABLE OILS IN ARGENTINA

- Existence of the world's most efficient oil seed industrial complex with important exportable balances. 5% of the current gas oil market (mandatory blend by 2010) could be supply with less than 9% of the national production of oils.
- Very low industrialization rate of corn and sorghum with important exportable balances of raw grains. 5% of the current gasoline market could be supply by industrializing 2,5% of the corn production (23 million tons in 2007), or 14 % of the sorghum production (3,5 million tons in 2007).





Current View

- The difference of average prices between biofuels and fossil fuels is still important, and this is strengthened in Argentina due to the validity of politically managed prices for the latter
- The mandatory blend assures a market of 800,000 mt3 per year, equivalent to more than 824,000 tons of oil (4,5 million tons of soybean)
- The development of biofuels, in general, and biodiesel, in particular, for the domestic Argentine market, is subject to the enforcement of the law. But important additional tax incentives are required (at least a figure equivalent to u\$\$ 0,30 per liter of biofuels at current values)





CURRENT VIEW

 Strong export potential, with 10 million tons of soybean-oil by 2010/11

Actual Biodiesel policy in favor to export

 Due to actual export tax favorable to biodiesel "exports"





OPPORTUNITIES

Many of the most important oilseeds companies are in the Crushing business in Argentina and have projects of Biodisel at a large scale.

- Vicentin-Glencore
- AGD-T6 (Bunge)
- Louis Dreyfus
- Glencore
- Molinos Rio





Oportunities in biotech

 Special soybean varieties with vegetable oils carrying more energy output. Linked with high quality protein in the other fraction. This is to introduce the idea than using biodiesel you can improve food and human nutrition.





¿Food or feed?

 Who eats the grains? People or pigs, chickens, poultries, steers, breweries, licours factories, etc

 For each MT extra of soybean oil, we shall bring to the market 4 MT of soybean meal usede as food or feed





Adding value

 We still have less poverty adding value, no destroying value added industries

 Biofuels is an opportunity to introduce new ways to add value to the raw materials and local development









THANK YOU!

