

BIOFUELS FROM ARGENTINA
SUSTAINABLE ORIGIN

CAMARA ARGENTINA DE
BIOCOMBUSTIBLES



What we do:

- Lead the promotion, production and marketing of biofuels in order to actively contribute to Argentina's sustainable economic future.
- Promote the development and use of biofuels as a sustainable energy alternative that contribute to tackling Global Warming by reducing GHG Emissions.
- We produce and export more than 95% of Argentina's Biofuels. We invested more than US\$ 500.000.000 in 10 plants.



CARBIO

Our members:

BUNGE



ALIMENTOS NATURALES



CARBIO

Production:

YEAR	Installed Capacity (in tons)	Production (in tons)
2007	500.000	140.000
2008	1,4 millions	750.000
2009	2,4 millions*	1 million*
2015	5,5 millions*	3,5 millions*

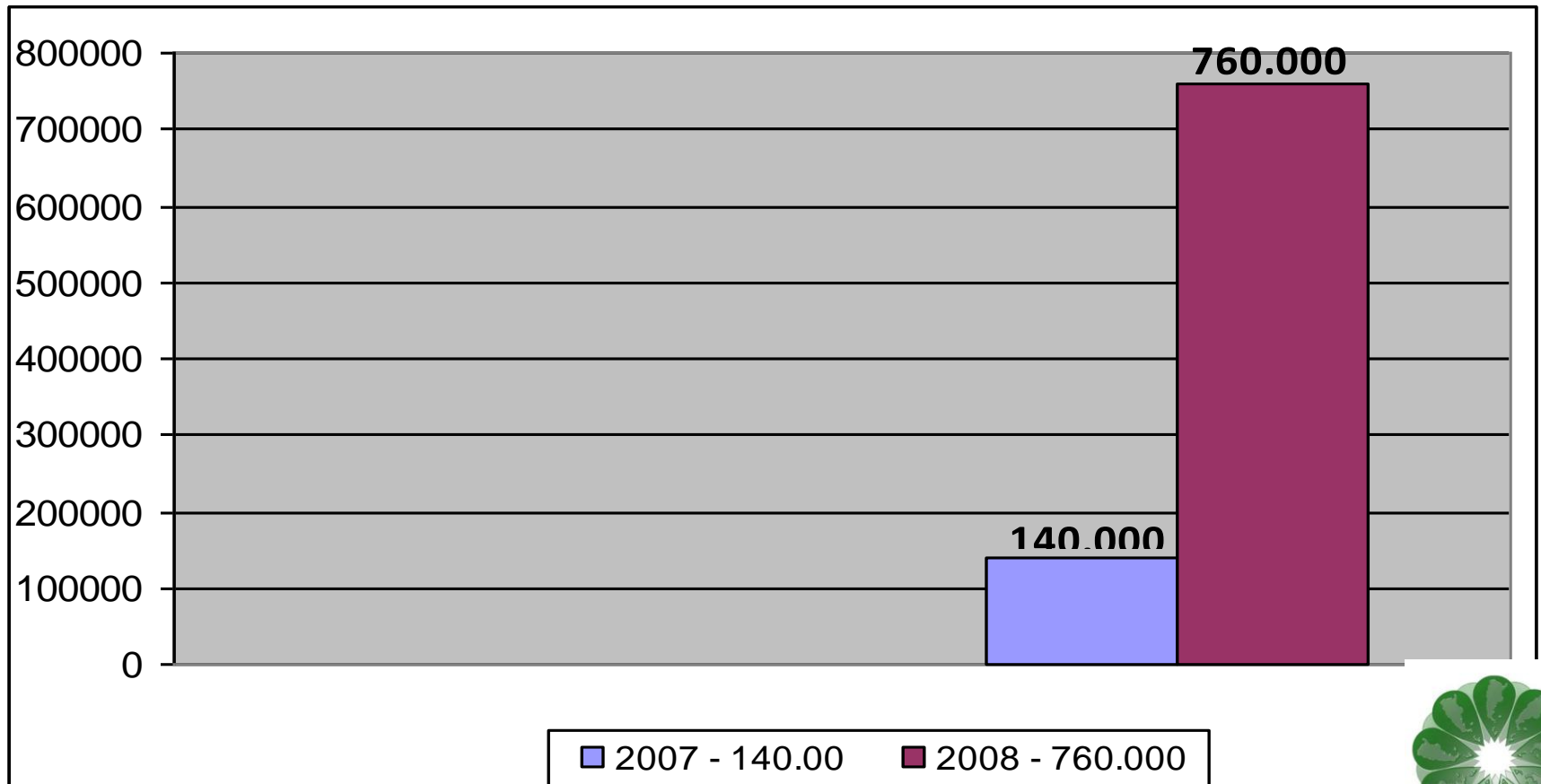
*estimated



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Exports:

Argentina's Biodiesel volume of exports (in tons)



ARGENTINE BIODIESEL

BIOFUELS IN ARGENTINA:

- ❁ In 2006, the Argentine Congress passed Law 26093 aimed at promoting the use and production of biofuels in the country (biodiesel, bioethanol and biogas).




Main aspects of the Law:

- ❁ 5% mandatory use of biodiesel and ethanol in all diesel oil and gasoline consumption, beginning on January 1, 2010.






ARGENTINE BIODIESEL

Competitive advantages:

-  High land extension, soil fertility and geographic diversity allows the development of crops that serve as inputs for the development of renewable energy sources.
-  Highly competitive Vegetables Oil Cluster located in Santa Fe Province, with a milling capacity of 52,8 million of tonnes per year.
-  Industry strong export infrastructure: around 90% of production goes to foreign markets.



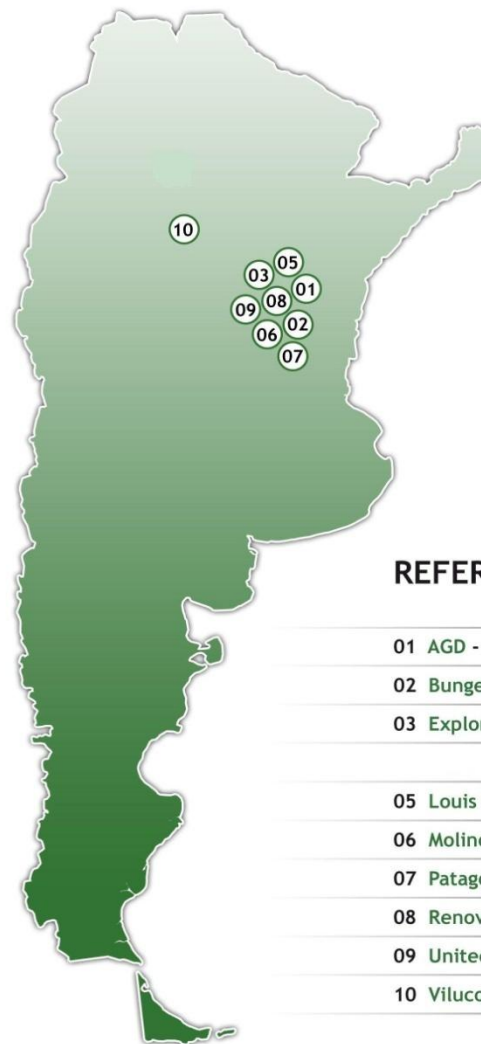
ARGENTINE BIODIESEL

-  Use of private ports for shipment, installed within the premises of oil and biodiesel plants, with natural facilities.
-  Shortest distances from the production area to the shipment port
(average 300 km).
-  Modern facilities for grain storage and conditioning in shipment ports, which - in addition to environmentally friendly facilities - consume more natural gas than other fuels in the drying process .



ARGENTINE BIODIESEL

Main biodiesel plants location:



REFERENCIAS

- 01 AGD - Puerto General San Martín, Santa Fe.
- 02 Bunge - Puerto General San Martín, Santa Fe.
- 03 Explora - Puerto General San Martín, Santa Fe.
- 05 Louis Dreyfus - General Lagos y Timbúes, Santa Fe.
- 06 Molinos Río de la Plata - Rosario, Santa Fe.
- 07 Patagonia Bioenergía - San Lorenzo, Santa Fe.
- 08 Renova - San Lorenzo, Santa Fe.
- 09 Unitec Bio - Puerto General San Martín, Santa Fe.
- 10 Viluco- Frías, Santiago del Estero.



ARGENTINE BIODIESEL




Environmental features:

- According to a recent research conducted by INTA, the argentine soy-based biodiesel contributes to Global Warming mitigation by reducing in **74,9%**, the emission of greenhouse gas, compared to fossil fuel.



BUILDING A SUSTAINABLE ECONOMY

Soybean Farming:

-  80 % of soy bean produced is intended for human and animal consumption in the form of soybean pellets and flour and only the 18% is potentially profitable for biodiesel production and its by-product glycerol.
-  For this reason, the soy based biodiesel energy balance is positive and is reduced up to 80% of the energy required for the production of soy beans, both at the agricultural and the industrial stages (crushing).
-  Of the total energy used to produce soybeans, 35 mega joules corresponds to biodiesel, and 81 ,75 M/J , to its by products, as long as cultivation is performed through no-till farming using leading technology. Therefore included the by product, the balance is 6,48 to 1.



BUILDING A SUSTAINABLE ECONOMY

KEY ELEMENT FOR REDUCTION OF GHG EMISSIONS: AGRICULTURAL CONSERVATION PRACTICES CALLED NO TILL FARMING

Almost 80 % of the of the soy farming in
🌿 Argentina has adopted no till farming

Source: AAPRESID.



BUILDING A SUSTAINABLE ECONOMY

No till Farming:

No-till adoption benefits

- 96% less soil erosion
- Increase in soil fertility (better soils)
- Greater production stability and yield increase (less pressure over fragile areas)
- 66% less fuel use
- lower carbon emissions
- higher water quality
- higher biological activity
-
- Lower production costs



CLOSING REMARKS

- ❁ Argentinean Soy based biodiesel is sustainable.
- ❁ Argentinean Soy based biodiesel reduces GHG.
- ❁ In order to successfully implement second and third generations of Biofuels we must first develop an industry based on available feedstock.



THANK YOU

For more information please visit www.carbio.com.ar

