

BIOGÁS HOY

VIDEOCONFERENCIA INTERNACIONAL



NOCIONES ACTUALES EN ALEMANIA Y ARGENTINA

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Gratis con inscripción: www.rrii.utn.edu.ar
Se entregarán certificados de participación



07/12



9-12 Hs.



Disertación
en Inglés



Rectorado | Sarmiento 440
5° - CABA (Argentina)



En tu Facultad, en la
sala de Videoconferencia.



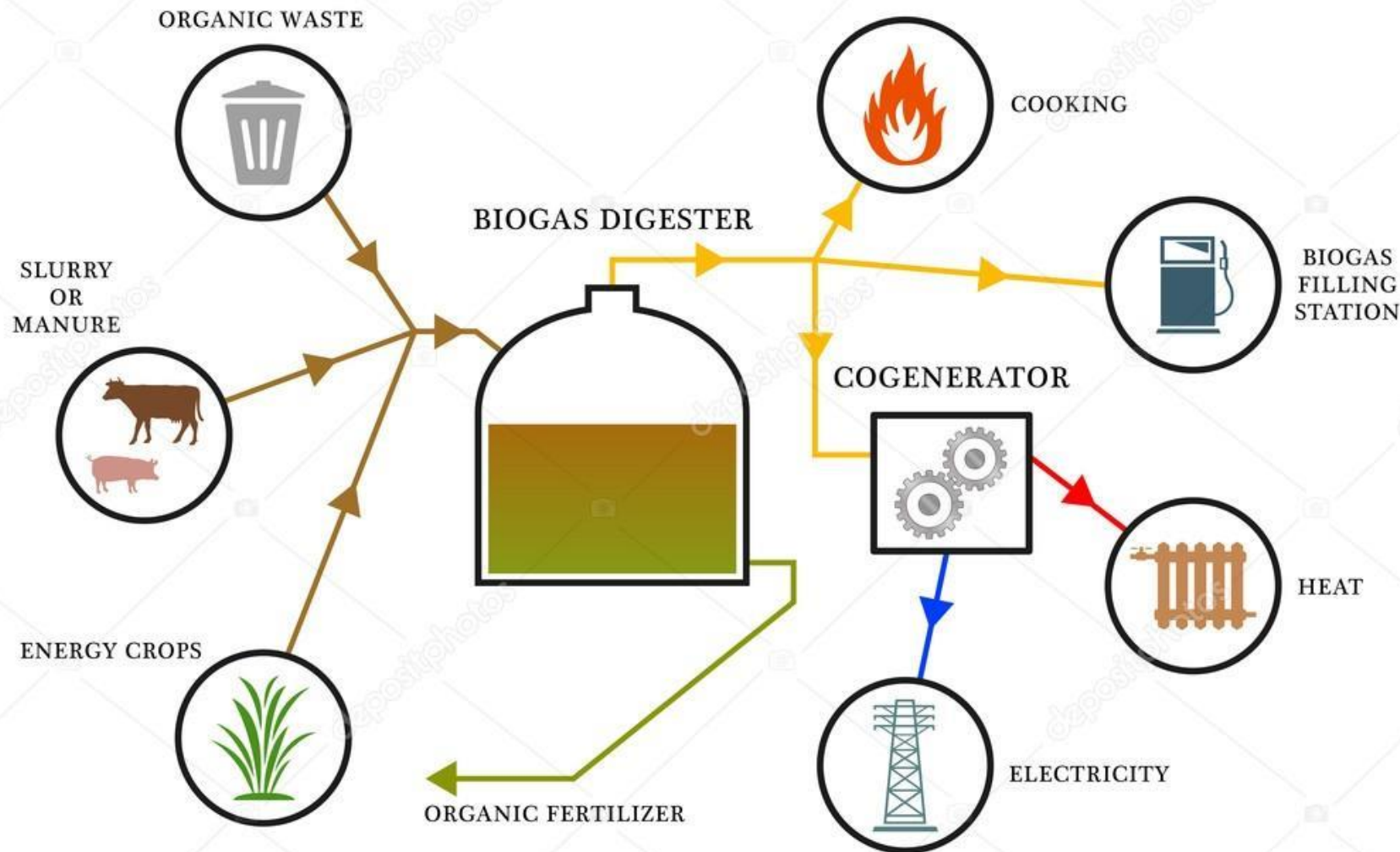
Cámara de Industria y Comercio
Argentino-Alemana
Deutsch-Argentinische
Industrie- und Handelskammer

Lo hacemos posible.



SA SECRETARÍA ACADÉMICA





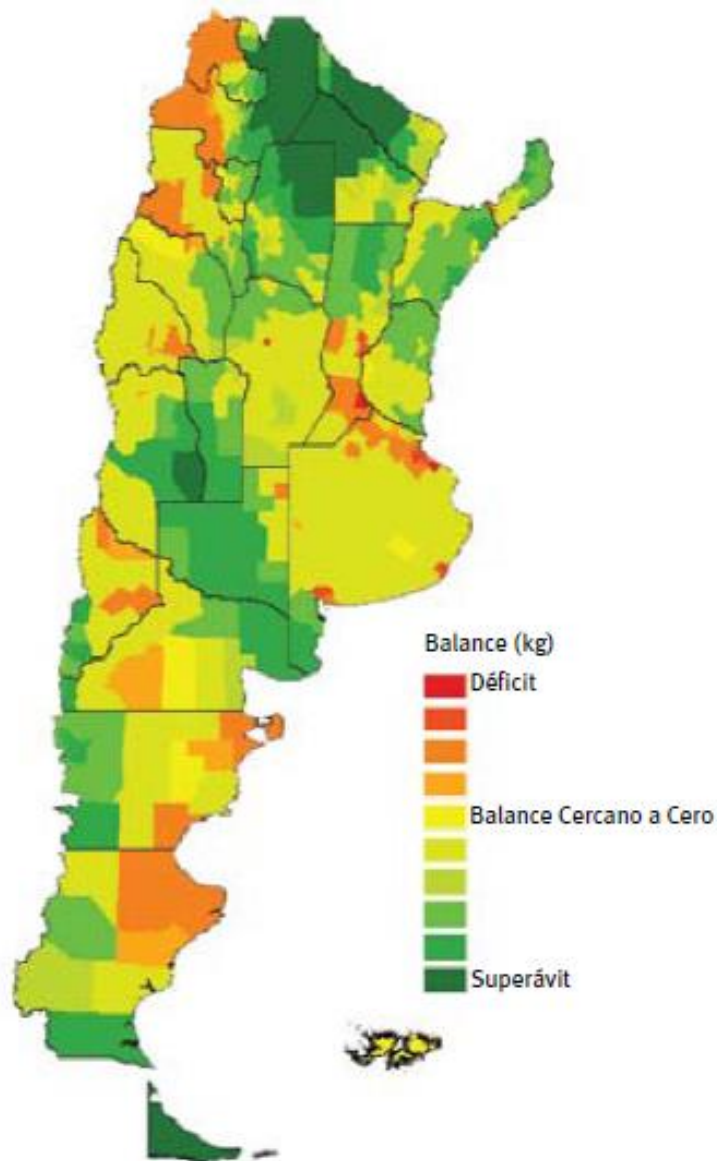
LOW 26190 Y LOW 27191

ESTABLISHES A REGIME NATIONAL PROMOTION
OF ELECTRIC ENERGY PRODUCTION BY
RENEWABLE ENERGY SOURCES

Renewable Energy Potential



Biomass Distribution



Fuente: Wisdom Argentina, Informe Final, FAO-INTA, mayo 2009.

PROBIOMASA

PROJECT FOR THE PROMOTION OF ENERGY DERIVED FROM BIOMASS

An Initiative implemented by the Ministry of Agriculture, Livestock and Fisheries (MAGyP) and the Ministry of Federal Planning (MINPLAN) with FAO technical and administrative assistance.

- Its **main objective** is to increase production of thermal and electrical energy from biomass to ensure a growing supply of clean, reliable and competitive energy, while opening up new opportunities for the agro-forestry sector and helping with climate change mitigation.
- <http://www.probiomasa.gob.ar>

Projects in Portfolio

Projects with pre or feasibility studies looking for financing

| Project | Province | Type | Installed Capacity | Biomass source |
|--|------------------|--------------------------------|--------------------|-----------------------|
| Fundación Parque Tecnológico Misiones | Misiones | Electricity generation | 12 MW | Forestry industry |
| Cooperativa Tabacalera de Misiones | Misiones | Electricity generation | 6 MW | Forestry industry |
| Enrique R. Zeni y Cía. S.A.C.I.A.F.e I | Corrientes | Cogeneration | 8 MW | Forestry industry |
| Parque Industrial Santa Rosa | Corrientes | Cogeneration | 11 MW | Forestry industry |
| FRESA (Pomera Maderas) | Corrientes | Cogeneration | 40 MW | Forestry industry |
| Avícola Las Camelias S.A. | Entre Ríos | biogas- Electricity generation | 0,6 MW | Poultry industry |
| Parque Industrial Federación | Entre Ríos | Cogeneration | 300 kw | Forestry industry |
| Ingenio Ñuñorco | Tucumán | Cogeneration | 8 MW | Sugar cane industry |
| Corfone | Neuquén | Electricity generation | 2 MW | Forestry industry |
| Solamb SRL | Santa Fe | biogas- Electricity generation | 1 MW | Seeds & grains |
| Adecoagro Dairy farms La Lacteo | Santa Fe | biogas- Electricity generation | 1-3 MW | Dairy farm |
| Papelera Mediterranea | Corrientes | Cogeneration | 15 MW | Forestry industry |
| Gral. Pirán Biogas guano aviar | Buenos Aires | biogas- Electricity generation | 0,6 MW | Poultry industry |
| Proyecto Aserraderos de TOLHUIN | Tierra del Fuego | Electricity generation | 0,5 MW | Forestry industry |
| Cooperativa Eléctrica de Río Grande | Tierra del Fuego | Electricity generation | 0,8MW | Industria electrónica |
| IBS / Ledesma | Jujuy | biogas- Electricity generation | 5 MW | Sugar cane industry |
| IBS / Carmen de Patagones | Buenos Aires | biogas- Electricity generation | 1 MW | Agricultural residues |
| Villa Guillermina | Santa Fe | Cogeneration | 15 MW | Forestry |
| Planta RSU de Esquel (CIEFAP) | Chubut | Cogeneration | 2 MW | Forestry industry |
| YPF - Central térmica El Bracho | Tucumán | Cogeneration | 50 MW | Sugar cane industry |
| Granja Porcina Lartirigoyen | La Pampa | biogas- Electricity generation | 1 MW | Industria porcina |
| Cluster Semillero | Santa Fe | Cogeneration | 10 MW | Seeds & grains |
| Redruello (Fonarsec) | Formosa | Cogeneration | 2,4 MW | Forestry |
| Sogico (Fonarsec) | Chaco | Cogeneration | 2,4 MW | Cotton industry |
| OIL FOX S.A. | Buenos Aires | biogas- Electricity generation | 1 MW | Poultry industry |



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Projects in Portfolio

Projects with pre or feasibility studies looking for financing

| Proyect | Province | Type | Capacity | Biomass source |
|---------------------------------|-----------------|-------------------------------|-----------------|-----------------------|
| Avícola Las Camelias S.A. | Entre Ríos | biogas-Electricity generation | 0,6MW | Poultry industry |
| Solamb SRL | Santa Fe | biogas-Electricity generation | 1MW | Seeds & grains |
| Adecoagro Dairy farms La Lacteo | Santa Fe | biogas-Electricity generation | 3MW | Dairy farm |
| Gral. Pirán Biogas guano aviar | Buenos Aires | biogas-Electricity generation | 0,6 MW | Poultry industry |
| IBS / Ledesma | Jujuy | biogas-Electricity generation | 5 MW | Sugar cane industry |
| IBS / Carmen de Patagones | Buenos Aires | biogas-Electricity generation | 1 MW | Agricultural residues |
| Granja Porcina Lartirigoyen | La Pampa | biogas-Electricity generation | 1 MW | Industria porcina |
| OIL FOX S.A. | Buenos Aires | biogas-Electricity generation | 1 MW | Poultry industry |

Identified Barriers

| Type of barrier | Barrier description |
|-------------------|---|
| Regulatory | Lack of implementation of measures to promote Law 26,190. |
| | Complex admission process to the wholesale electricity market. |
| | Lack of a standardised process in the allocation of electricity tariffs |
| Financial | Poor access to international finance and foreign investment for biomass energy projects |
| | Limited availability of credit lines with favourable conditions (long and medium term loans with low interest rate) for renewable energy investments. |
| Economic | Low electricity tariffs. |
| | Uncertainty in the private sector about the existing support instruments |

Probiomasa has been working on different fronts to overcome the identified barrier



Absender | Titel | TT.MM.JJJJ | Seite 21

A few Facilities

- 1950 a biodigester is installed in the town of Humboldt (Pcia. de Santa Fe).
- Just two decades ago, its study began slowly and gradually, in our country.
- Today there are more than twenty demonstration facilities that have been placed in day-care centers, homes, community centers and school canteens in the provinces of Santa Fe, Buenos Aires, Salta, Córdoba y San Juan.

THE GLOBAL TREND IN THE DEVELOPMENT OF BIODIGESTORES IS REDUCE IT'S COSTS AND INCREASE IT'S USEFUL LIFE, ARRIVING AT THE LARGEST NUMBER OF USERS OF THIS TECHNOLOGY.

THANKS VERY MUCH



Dr. Jan Adolph. Biogas Expert.

DABEC – Bioenergy Consulting

- Dr. Jan Adolph is the owner of DABEC Bioenergy Consulting in Dresden, Germany. Established in 2006, DABEC consults biogas plant operators, manufacturers, municipal utilities, and farms. Furthermore, they collaborate with universities and advanced technical colleges on research and development of biogas technologies. Dr. Adolph studied agricultural sciences at University of Göttingen and completed his PhD in agricultural engineering for biogas generation from food waste