

PRODUCTS and SERVICES

Comprehensive tailor-made solutions in the fields of bioenergy and environment.

PRODESA's services and products include the following technologies;

Biomass processing and handling

Raw material conditioning according to production requirements on site.

- Shredding and grinding of forage and alfalfa.
- Debarking of wood logs.
- Wood chipping.
- Woodchips milling.

Thermal drying

High quality drying technology for all type of biomass (wood wastes, alfalfa, forage, fruit pulp, starch, livestock wastes, etc)

- Low temperature indirect drying; Belt dryer.
- High temperature direct drying; Drum dryer.
- High temperature indirect drying; EcoDry.

Pellet production

Wood, forage and alfalfa.

- Dry product milling.
- Pelletizing.
- Cooling, conveying and storage of pellets.
- Pellet storage silos.
- Bagging and palleting lines.

Biomass Cogeneration

Power production associated to the use of thermal energy in low temperature drying systems.

Integration on pellet production plants with a power production range from 600 kW to over 5.000 kW. Customized solutions according to every project demands.

Gas treatment

Volatile organic compounds (VOCs), and odors management facilities for different application fields (chemical industry, automotive industry, printing and graphic industries, coating and drying processes, etc).

Gas treatment services:

- Risk assessment (HAZOP).
- Energy recovery systems.
- Revamping of existing facilities.
- Supply and sieving of active carbon.

Gas treatment technology:

- Recuperative Thermal Oxidation.
- Regenerative Thermal Oxidation.
- Catalytic oxidation.
- Rotoconcentrator.
- Solvent recovery.
- Gas washing.



PRODESA

COMPREHENSIVE TAILOR-MADE SOLUTIONS

Since 1999, **PRODESA** designs and provides comprehensive tailor-made solutions for the production of solid bio-fuels and the protection of the environment, being a technological and innovating leader in the international arena.

PRODESA is a well-known engineering and manufacturing company with headquarters in Zaragoza, Spain, and branch offices in the USA (Alpharetta, Georgia), Malaysia (Bintulu, Sarawak), France, and Russia.

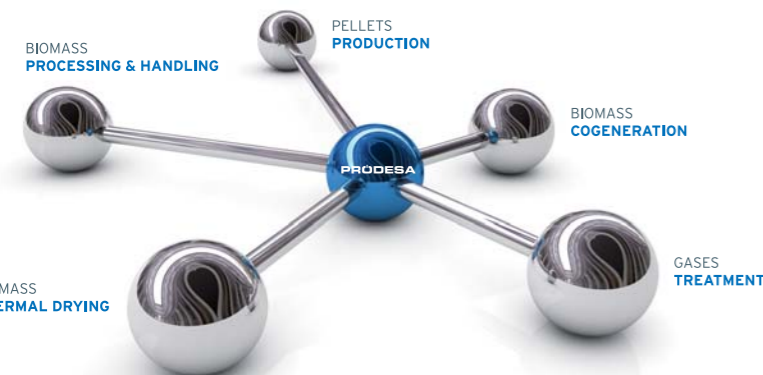
We cover all technological stages in the development of industrial plants such as design, manufacturing and supply under a "Turnkey" or "EPC" model. With over 15 years of experience, and many projects developed in Europe, Asia, and America, we are a leading company in the field of bio-energies.

CORE BUSSINES: design, manufacturing and supply of complete wood pellet plants, biomass dryers and biomass fueled CHP plants under an "EPC + O&M (Operations and Maintenance)" model.

- Design feasibility studies
- Basic and Detailed engineering
- Process and Manufacturing Engineering
- Electrical and Mechanical Engineering
- Manufacturing
- Installation
- Commissioning
- Training
- Plant control and programming
- After-sales services
- Maintenance services
- Spare parts supply
- SOAS (Smart Operations Assistance Service)

PRODESA's professional team consists of multidisciplinary group of people which make possible to cover every stage of the projects, understanding every single need and reaching the best solution for our customers.

SPAIN • USA • FRANCE • RUSSIA • MALAYSIA



PRODESA



FROM ROUND WOOD TO PELLETS



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