



June, 27 and 28 Grand Hyatt Hotel São Paulo - SP - Brazil



www.ethanolsummit.com.br

PROESA®: Green Chemistry and Biobased Products







PROESA® = Produzione di Etanolo da Biomassa

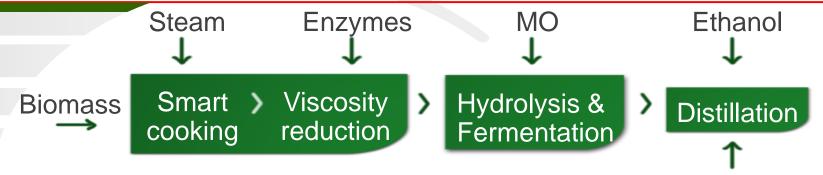


licenses the technology in cooperation with



PROESA® Process Flow Diagram





Lignin for energy block

PROESA® technology benefits



✓ Feedstock flexibility.



- ✓ Continuous process;
- ✓ No chemical addition;
- ✓ Optimal sugar extraction with low enzyme dosage.



✓ Fully integrated process design using continuous equipment to enable large scale plants.



✓ Best in class technology with lowest capex and opex backed with performance guarantees.

The development of a local biomass supply chain



Ligno-cellulosic feedstocks:

- ✓ Energy crops, e.g. giant reed (Arundo Donax);
 - ✓ Agricultural residues;
 - ✓ Sugar cane and wheat straw;
 - ✓ Rice straw.
 - ✓ Bagasse

View of rice fields in the Vercelli area where Crescentino plant is located



Our commitments



200 people fully dedicated to Green R&D



Modugno, Puglia, Italy

✓ Modugno demonstration facilities for bio-hydrocarbons.



Rivalta Scrivia, Piedmont, Italy

- ✓ 4500 m² dedicated to renewable resources biochemistry and technology;
- √ Biomass sugars;
- ✓ Sugar to chemicals.

The biorefinery concept



✓ The use of PROESA® technology will enable the production of cheap and clean sugars;

✓ Thanks to a unique committment, biorefinery will shortly become

