

2<sup>nd</sup> International Congress and Expo on

# Biofuels & Bioenergy

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## Some projects of institute of bioenergy research (ipben) at UNESP guaratinguetá

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In this presentation will be presented projects developed by the Group of Optimization of Energy Systems in IPBEN- Institute of Bioenergy Research. This Institute has been working about biohydrogen and renewable hydrogen processes. Also there are projects considering biogas and your use to electricity generation and production of the biohydrogen by steam reforming. Another researchs have been developed in biomass gasification with dowdraft, bed fluidized and plasma gasifiers, as too biodiesel industry considering steam reforming of glycerin to biohydrogen production incorporated. Many works developed have been studing about the use of biofuel in internal combustion engine, gas turbine (micro), combined cycle and fuel cell systems, considering energetic, economical and environmental issues. In final step, it will be presented some prototypes, publications in Bioenergy topics, and the new projects in development by the Group at UNESP Brazil.

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