



# W2B

# NER300

## The project

Technology category: Bioenergy

Location: Punta del Verde, Carretera de la Exclusa, Sevilla, Spain

Max. NER 300 funding: EUR 29.2 million

Final investment decision: June 2018 (estimated)

Entry into operation: June 2020

## State of advancement

As of January 2017, the project sponsor is awaiting for the competitive public tender process to be called by the local authorities.

## Outlook for coming year

After bid award, begin permitting management and commence construction preparative.

## Outlook for coming 5 years

Commence construction in 2018 and plant commissioning in 2020.

## Project sponsor

Abengoa Bioenergía Nuevas Tecnologías, S.A. (ABNT)

## Project summary

The Waste to Biofuels (W2B) facility proposed in this project will be placed in the outskirts of the city of Seville (Spain). The plant will have a capacity to produce 28 million litres of ethanol per year, utilizing as feedstock of about 500 000 tonnes of Municipal Solid Waste (MSW), as received.

The MSW will be processed to recover the organic matter and the cellulosic fibres from paper and cardboard, which will be converted into bioethanol and energy. Previously, the MSW undergoes a sorting process, in which plastics, metals and residue derived fuel and inert compounds are recycled or disposed.

The process for conversion of MSW into biofuels and energy is based on the biological conversion of organic matter, paper and cardboard via a proprietary enzymatic hydrolysis and fermentation technology developed by Abengoa. As a result of the process, fuel-grade ethanol is obtained.

Compared to traditional MSW management systems, this project will reduce 75 % of GHG emission generated. The following describes the key elements and advantages of this project; it covers both maximization of recovery of convertible fractions and process integration, production of renewable fuels, minimizes the generation of sub-fractions whose final fate is landfill, and promotes recycling of not convertible materials that are inherently present in the MSW.

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