

Safra

MANUFACTURER

ELECTRIC BUS
FUEL CELL BUS
HYBRID PLUG-IN BUS



OUR HISTORY....

Founded in 1955, SAFRA (Société Albigeoise de Fabrication et Réparation Automobile) initially produced coach bodywork to be fitted onto manufacturer chassis-cabins.

Throughout its history, the company has constantly developed to adapt to changes in the "people transport" market. One example was the change in activity that began in the late 70s: from a coach bodywork manufacturer, SAFRA became a bodywork renovator and repairer. Over the years, SAFRA has regularly diversified and the company now operates in 3 complementary business sectors: the Automobile Division, the Interior Layout Division and the Public Transport Equipment Division, made up of two activities: SAFRA Renovation and SAFRA Manufacturer.



Safra

MORE THAN **60 YEARS**
OF EXPERIENCE



Activities diversified into renovating public transport buses

1978

Launch of the Businova programme and presentation of the first prototype

2011

Marketing of the hydrogen Businova

2018

1955

Founding of SAFRA, coach bodywork on chassis-cabins

2004

Development of the design office following the first railway equipment projects

2015

Marketing of the first Businova

Public Transport Equipment division
MANUFACTURER

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Part of the Public Transport Equipment Division, SAFRA Manufacturer specialised in the design, production and marketing of Businova® electric buses.

These vehicles come in very low and zero emission versions and in three sizes and are entirely designed, produced and marketed by SAFRA.



Businova was the result of SAFRA's desire to develop an industrial product to meet the needs linked to energy transition in the public transport sector.

Launched in 2011, this major innovation project has now given birth to a wide range of products. Businova is also a dynamic, creative team that works day after day to meet the needs of a demanding market and respond to customer requests.

Isabelle Préget
Director of
SAFRA Manufacturer



Expertise



DESIGN OFFICE EXPERTISE

- **Mechanical design** (chassis, road holding, engines, bodywork, interior layout)
- **Electrical design** (drive chain, wiring bundles, electrical architecture, ...)
- **Onboard systems** (CAN architecture, software development, ...)
- **Artificial intelligence** (energy optimisation, control logic, ...)
- **I.T.** (Wi-Fi, database, back-office tool, ...)

SUPPORT TEAM

SALES
DESIGN OFFICE
SCHEDULING / METHODS
PURCHASING
LOGISTICS
QUALITY / CERTIFICATION
TRIALS / AFTER-SALES



PRODUCTION TEAM

WELDING
BODYWORK / PAINTING
MECHANICS
ELECTROTECHNICS

Installations and equipement

The Businova production shop is on SAFRA's industrial site in Albi. Covering over 8,000 m², the site is made up of a number of buildings capable of accommodating all types of rolling stock, thereby offering an ability to adapt to our level of production. Our 8.5 ha of land reserve will easily accommodate our future production shops.



**MORE THAN
8 000 m²
OF BUILDINGS**



EQUIPEMENTS

Our equipment guarantees a high level of quality and safety:

- Chassis welding surfaces;
- gas and hydrogen detection;
- Lift platforms;
- 23-metre paint oven;
- transport trailers for deliveries;
- Fully-equipped after-sales vehicles.



AGILITY ET UPGRADABILITY from design to production

SAFRA Manufacturer has a multidisciplinary team combining all the expertise required to develop innovative products. In this way, the technical teams have an excellent knowledge of the developed product and therefore a considerable ability to adapt.

From the design stage to the accreditation process, Businova's development is focused on the vehicle's upgradability so that it can be adapted to new needs and technologies. It's therefore designed like a Lego® assembly, made up of interchangeable "bricks".

This technical innovation offers great flexibility when it comes to integrating new components and allows us to easily upgrade the vehicle to adapt to new and different energy solutions.



QUALITY CERTIFICATION

Our quality policy is the subject of a formal commitment on the part of the Senior Management, for whom quality is a day-to-day concern in all its markets. The ISO 9001 quality system version 2015 has been audited and approved.

By introducing this quality policy, SAFRA is meeting international standards. The process-based approach allows us to commit to an effective quality policy. This quality management system is a major asset for SAFRA whose central concerns are customer satisfaction and continuing improvement.



**Mechanical
assembly**



Windows



Customisation



Commissioning



**Serving and
maintenance**



Painting



Bodywork



**Interior
layout**



**Quality
control**



**Customer
delivery**



Products

THE MOST INNOVATIVE ELECTRIC BUS ON THE MARKET!

Businova is an electric bus based on two major innovations: an extremely attractive design and an architecture that enables the vehicle to adapt easily to all types of engines.

The range on offer today goes from a very low-emission engine with its rechargeable electric hybrid version to several zero emission versions such as the pure electric or the hydrogen version.

Attractive and efficient, Businova adapts perfectly to the demands of transport networks and can easily operate alongside the existing fleet.



PLUG-IN HYBRID

classified as a clean vehicle in the LTE regulations



FULL BATTERY

available in 2 versions: recharge at the depot or at the end of the line



FUEL CELL

a zero emission vehicle fitted with a Michelin fuel cell

Businova comes in 3 sizes: midibus S (9.5m), midibus L (10.50m) and standard (12m)

Businova in pictures

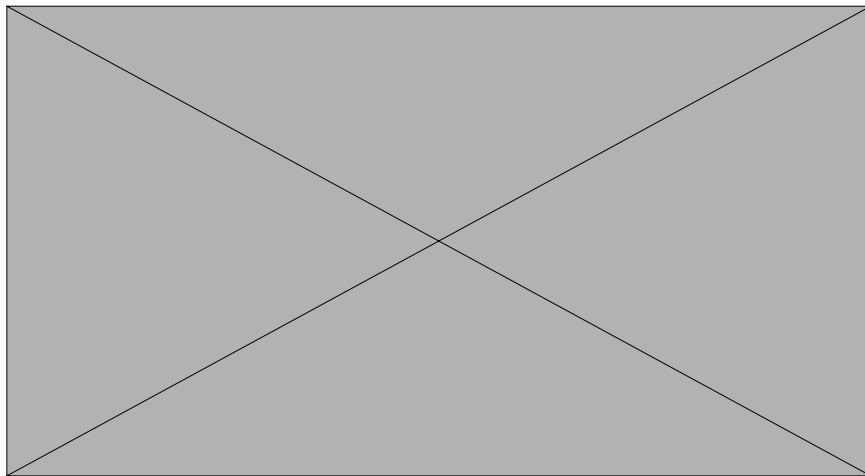


Our difference

Every customer has his own special needs that we systematically build into our personalised response. Developing a unique relationship is our best guarantee of customer loyalty and satisfaction.

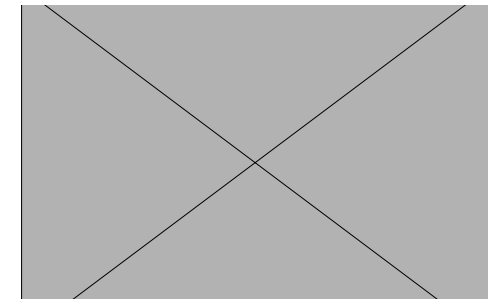
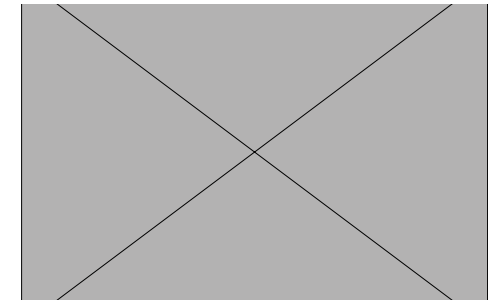
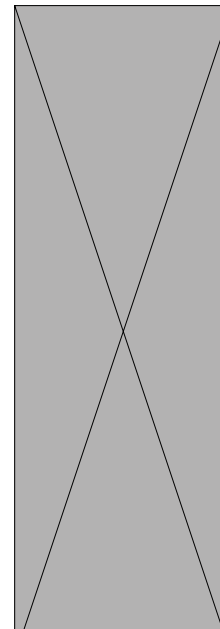
A UNIQUE CONCEPT

From the outset, SAFRA has worked on the concept of an upgradable vehicle, one on which different types of engines can be easily developed and adapted to a new technology. This is enabled by a unique architecture: a highly ingenious bi-modular chassis and a free-standing structure that offer virtually unlimited flexibility and ability to adapt.



A TAILOR-MADE RESPONSE

Because we design and produce internally, we have an excellent knowledge of the product we have developed. SAFRA can also work on very specific customer requests and provide a tailor-made response. Businova is so flexible that the vehicle can also be adapted to the network recharge system already in existence or currently being purchased. We are very attentive to our customers' needs but are also highly proactive in helping our customer in customising both the interior and exterior of the vehicle.



THEY TRUST US AND SUPPORT US

CUSTOMERS



PARTNERS





Safra



CONTACT

SAFRA Manufacturer
Public Transport Equipment Division
ZAC de Fonlabour | 25 avenue Copernic | 81000 Albi | France

Tél.: +33(0)5 31 81 70 18

Mail : contact@businova.com

www.businova.com | www.safra.fr