



Pilot Project / Case study

Biodiesel nel Parco del Ticino - Biodiesel in Ticino Park

Project summary

Pilot Project “Biodiesel in Ticino Park - Biodiesel nel Parco del Ticino” deals with the installation of a fuel station supplying a blend “Biodiesel/Diesel fuel (B30)” for all the vehicles’ fleet (cars, jeeps, heavy vehicles – 25-30 vehicles in total) owned by Parco del Ticino. Parco del Ticino is the largest regional park in Italy with about 450.000 inhabitants and an area of 91.000 ha.

Introduction

The Regional Park of Ticino is situated in the north-west area of the Lombardy Region and has an area of 91.600 ha. It is thus the largest regional park in Italy; it includes 47 municipalities and 3 provinces and has a total of 447.641 inhabitants.

The Park has developed its engagement in environmental sustainability by joining the Aalborg Charter in 2001, adopting a programme to promote and coordinate “Local Agenda 21 in the Park”. Though a full Local Agenda 21 for the Park is not yet completely operative, many preparatory actions have been implemented in the area of environmental sustainability. Various thematic topics have been monitored throughout the Park’s territory to verify projects already started and to support local authorities interested in providing general and scientific information.

The Park’s Local Agenda 21 is promoting Green Procurement via a “Park Mark” for agricultural products and sustainable inter-municipalities mobility. It promotes environmental certification, in accordance with ISO 9000, ISO 14000 and/or EMAS, for enterprises that produce agricultural goods grown through biological and integrated methods as high-quality products.

The Park, recognising that it has the institutional role to promote and plan at local level a Sustainable Energy Action Plan to be shared by all the local institutional and social actors, so as to reach the sustainable objectives that the Park has already identified, promoted and coordinated the WISE PLANS - Co-operation between communities for Energy Action Plans, an IEE project Action HKAI – Sustainable Energy Communities. An important gap to overcome with this project is to develop the level of consciousness of the local actors so as to persuade them to take a more strategic role in the application of energy-efficiency measures and in the introduction of renewable energies in all end-use sectors, and to promote the various relevant economic activities. Energy topics must become a full part of a social and institutional agreement to identify specific solution for every part of the Park.

CTI is involved in the same Wise-plan project as technical support of Ticino Park in the planning activity. In this context was born the idea of a “demonstrative project” on Biodiesel use, but, as Wise-Plans is only a “Planning project”, it was stated that the technical support had to be given by CTI only within the Bio-NETT activity.

Short Description of Pilot Project

The object of this pilot project is a Fuel Station supplying a blend “Biodiesel/Diesel fuel (B25)” for all the vehicles’ fleet (cars, jeeps, heavy vehicles – 25 vehicles in total) owned by Parco del Ticino.

Technical Data:

Tank: 7000 litres

Fuel: Eco-Diesel: B25 – 25% Biodiesel/75% Diesel fuel

Fuel Price in November 2007: 0,945 €/l + VAT (20%) = 1,134 €/l (when the supply contract has been signed the price of diesel fuel was 1,210 €/l.

Investment required: 5.916 € for the fuel station and the fleet management software

Park managers are planning to extend the use of Eco-Diesel also in favour of the employees of the Ticino Park.

Currently the Biodiesel station is working with a good feedback of final users and both Park-Keepers and Park Managers are quite satisfied by the system.



Figure 1 - Sticker showing that the vehicle is fuelled with ECO-DIESEL – Logo of Park Keeping vehicles

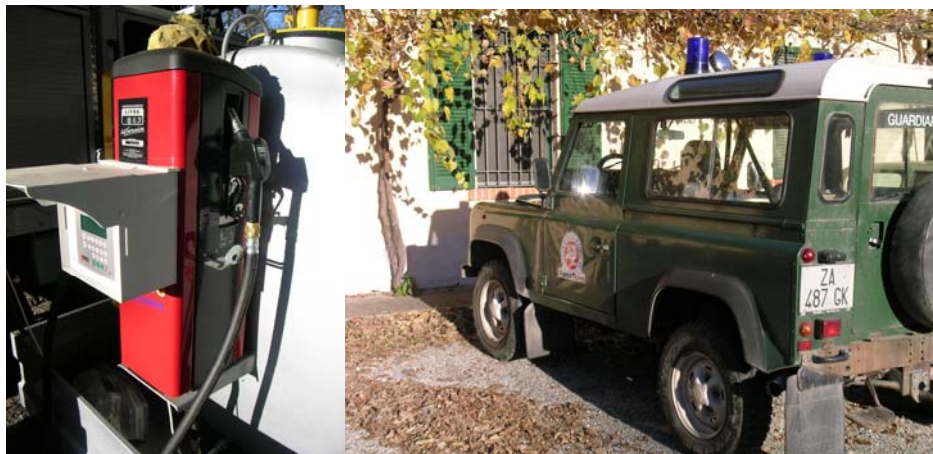


Figure 2 - Fuel pump with liter-counter and E-Card reader – Park keeping Jeep fuelled with ECO-Diesel



Figure 3 - Liter-counter before and after the fuelling to a van.



Figure 4 – Location of fuel station.

Numero	Targa e descrizione (* iniziale per il conta ore)	Gruppo di appartenenza
0001	CH119BW Pick-up Mitsubishi	UFFICIO TECNICO MANUTE
0002	CS381JS Land Rover TD 5 cassonato	UFFICIO TECNICO MANUTE
0003	CE222EE Furgone IVECO Combi	UFFICIO TECNICO MANUTE
0004	AR897FY Autocarro IVECO 135	UFFICIO TECNICO MANUTE
0005	NUOVO PICK UP	UFFICIO TECNICO MANUTE
0006	*MEZZI e ATTREZZI VARI	UFFICIO TECNICO MANUTE
0007	ZA218GM Land Rover	SETTORE VIGILANZA
0008	ZA222GM Land Rover	SETTORE VIGILANZA
0009	ZA634GK Land Rover	SETTORE VIGILANZA
0010	ZA487GK Land Rover	SETTORE VIGILANZA
0011	AC736DC Pick-up Mitsubishi	SETTORE VIGILANZA

Figure 5 – Software used for the management of fuelled vehicles.