

**OPW**  
Brevetti Nettuno

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**Daily Bimodale**

**2x1** Elettrico: pulito in città.  
Diesel: veloce in autostrada.

**2 è meglio di 1**  
**Operativo un veicolo commerciale Bimodale**

**2 is better than 1**  
**A commercial Bimodal vehicle is operative**

Una delle più valide applicazioni del motore elettrico per un uso quotidiano nei centri urbani potrebbe essere l'abbinamento ad un normale motore endotermico. Non stiamo parlando degli **ibridi**, ancora sperimentali e tecnicamente com-



Un pulsante per commutare il funzionamento da elettrico ad endotermico o viceversa. Con il veicolo funzionante elettricamente il cambio è posizionato in idle e si attivano due pulsanti per la marcia avanti e per la retromarcia.

A button commutes electric to endothermic operation and vice versa. With the vehicle working electrically, the clutch is positioned in idle and two buttons are activated for forward and reverse gears.

*One of the most valid applications of the electric engine for daily use in our cities could be the combination with a normal endothermic engine. We are not speaking of hybrids, which are still experimental and technically complex, but of a normal vehicle equipped with simple double independent fuelling. This engine can work with a traditional propeller as well as, with a simple switch, with an electric engine.*

*While the endothermic engine is operating, a special system recharges the batteries feeding the electric one. The advantages and possibilities of use are obvious, we would be tempted to say that this system is the illuminated solution to allow clean access to town centres without taking anything from extra-town use and long coverage, where*

*superior performance is needed. The experimenting of Bimodal engines started about twenty years ago for public services: now, a few important manufacturers offer it as an optional in town trolleybuses that can detach from the electric line and engage a normal endothermic engine and would then become autonomous.*

*An interesting proposal of this system is offered by Imola's Micro-Vett, which has been active in the field of electric vehicle construction for some time. Micro-Vett devised an excellent Bimodal system for the Iveco Daily 35, available on all set-ups. The Daily is among the most widely used commercial vehicles to move goods in the town context: normally equipped*

