



Daily Electric & «flexible charging»

Il Daily Elettrico & la «ricarica flessibile»

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# Daily Electric

The evolution



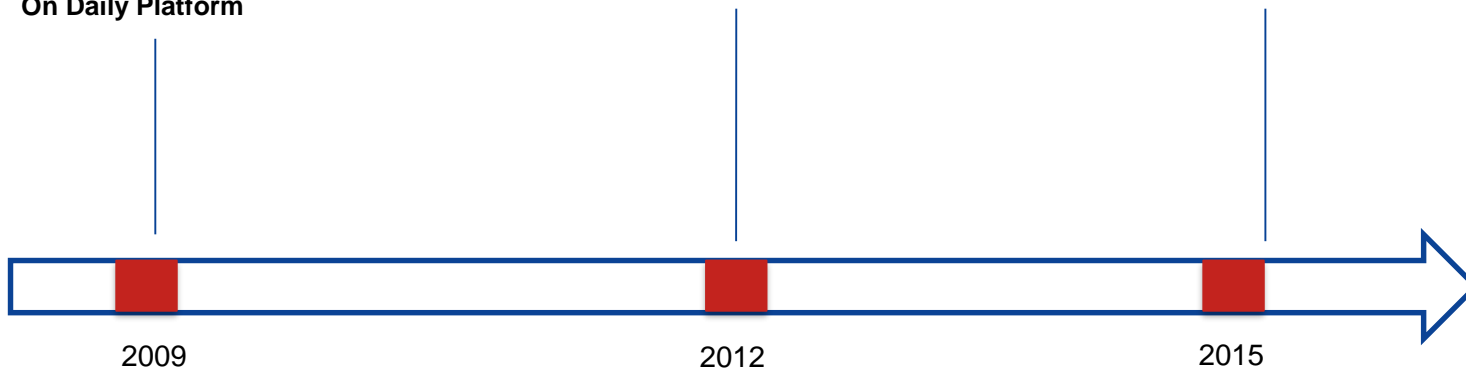
**First Pure Electric  
On Daily Platform**



**Daily Electric MY'12 Start Production**



**New Daily Electric Development**



# Daily Electric

## International awards

"eCarTec AWARD – MUNICH 2009"



"European Transport Award for Sustainability  
Museum of German Technich, Munich – November 29, 2011"



"KEP-Transporter des Jahres 2013 – ROSTOCK (Germany)"

INNOVATION AWARD FOR  
ALTERNATIVE DRIVES



International  
Van Of The Year  
September 2014



# Daily Electric

The Energy Storage System evolution...

**MY' 2009**



**Battery (Z5)**

**MY' 2012**



**Battery (Z5)**

**New**



**New Energy Storage with Supercap and  
Custom Sodium Battery (EV36)**

# Multi-purpose vehicle

Already running fleet for Daily Electric

## Garbage Collection



## Parcel Delivery



## Minibus



## Refrigerated Transport

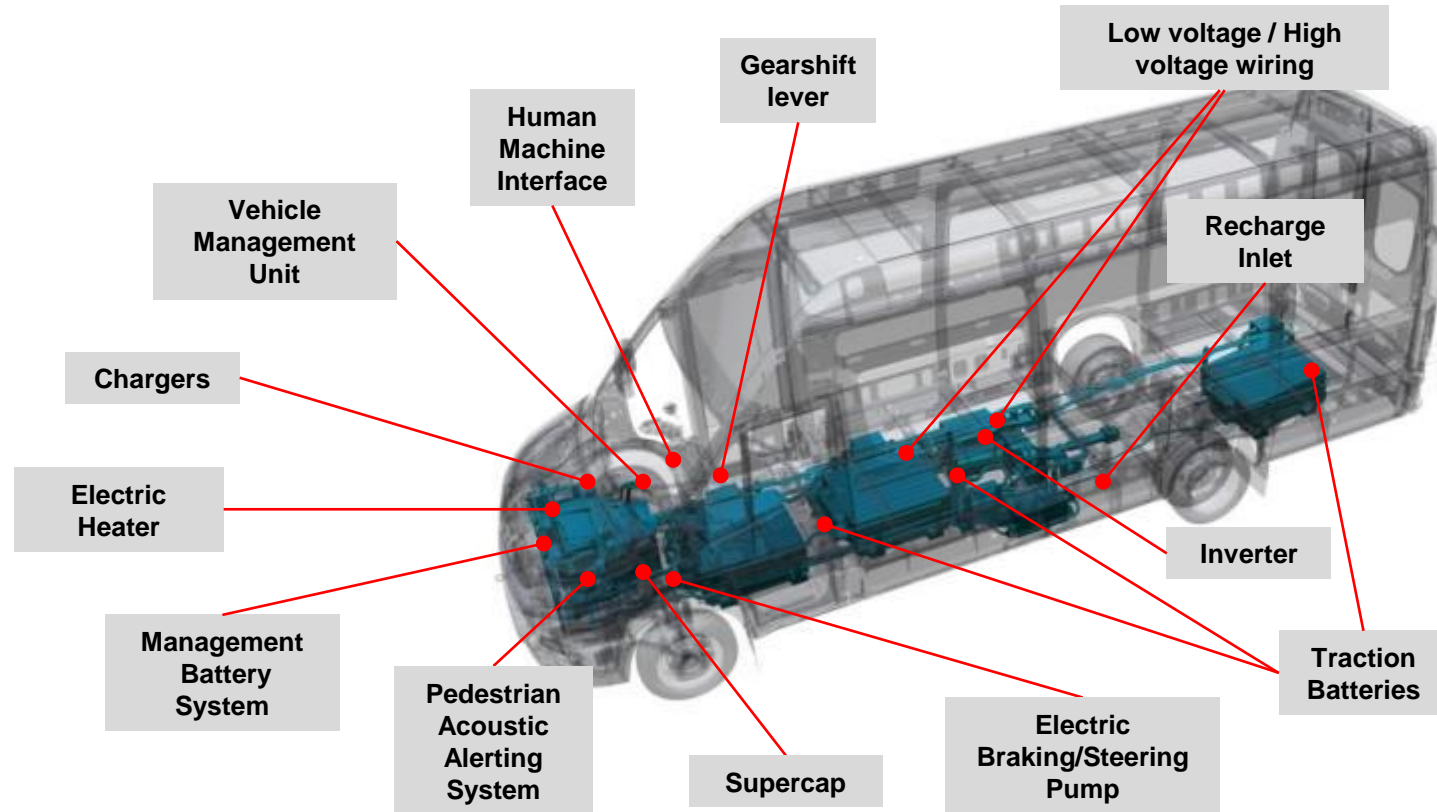


# New Daily Electric



# New Daily Electric

What is new?





# Sodium Nickel Chloride battery with Supercap

## Why?

### High efficiency

thanks to supercap integration and to unique system design

### Long life in real service and not only in laboratory

IVECO experienced mileage with the technology: more than 2.000.000 km in real use

### Temperature agnostic

operating in all weather conditions at same performance level

### The highest energy density:

110 Wh/kg at system level: better payload with the same range

### 100% recyclable & The first battery having CE certification

with no hazardous materials and real low environmental impact

### Low safety risk:

positive at all safety tests defined by the European Automotive Industry and USABC

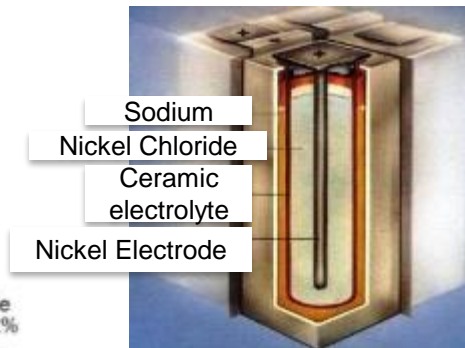
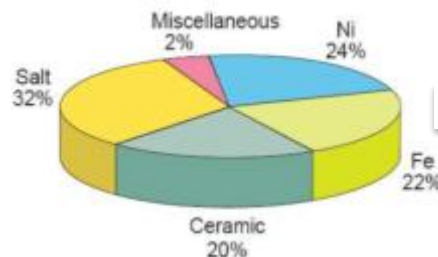
### No memory effect

charging flexibility

### Maintenance free

### Self discharge (heater load)

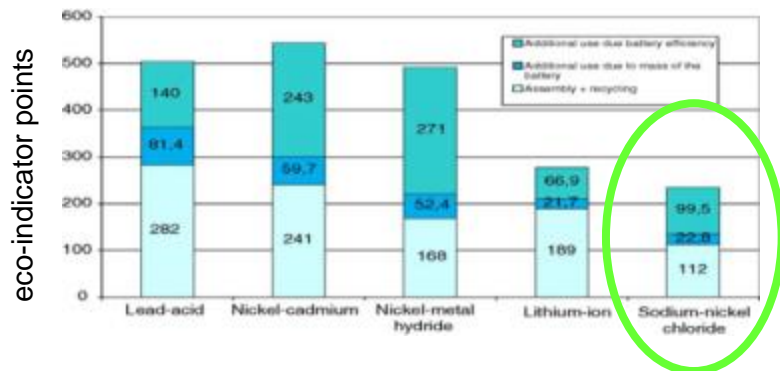
rate acceptable for professional use





# Sodium nickel chloride battery

Fully sustainable energy storage solution



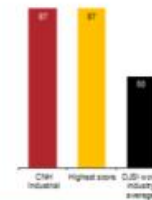
- Fiamm-Sonick batteries are easily recyclable as free from materials that require difficult treatments.
- The recycling **is included in the battery price**.
- The battery material is used for stainless steel production, the nickel and iron content become part of the product and the salt and ceramic form the slag in a process consistent way.
- **The metallic parts are 46% of battery weight** and are recycled in the production of metal alloy and the remaining part will result in slag.

## Sustainability

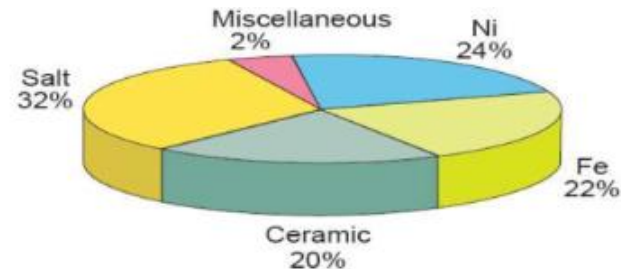
CNH Industrial among the Sustainability Leaders

MEMBER OF  
**Dow Jones Sustainability Indices**  
In Collaboration with RobecoSAM

CNH Industrial confirmed as **Industry Leader** in Dow Jones Sustainability World and Europe Indices for fourth consecutive year.

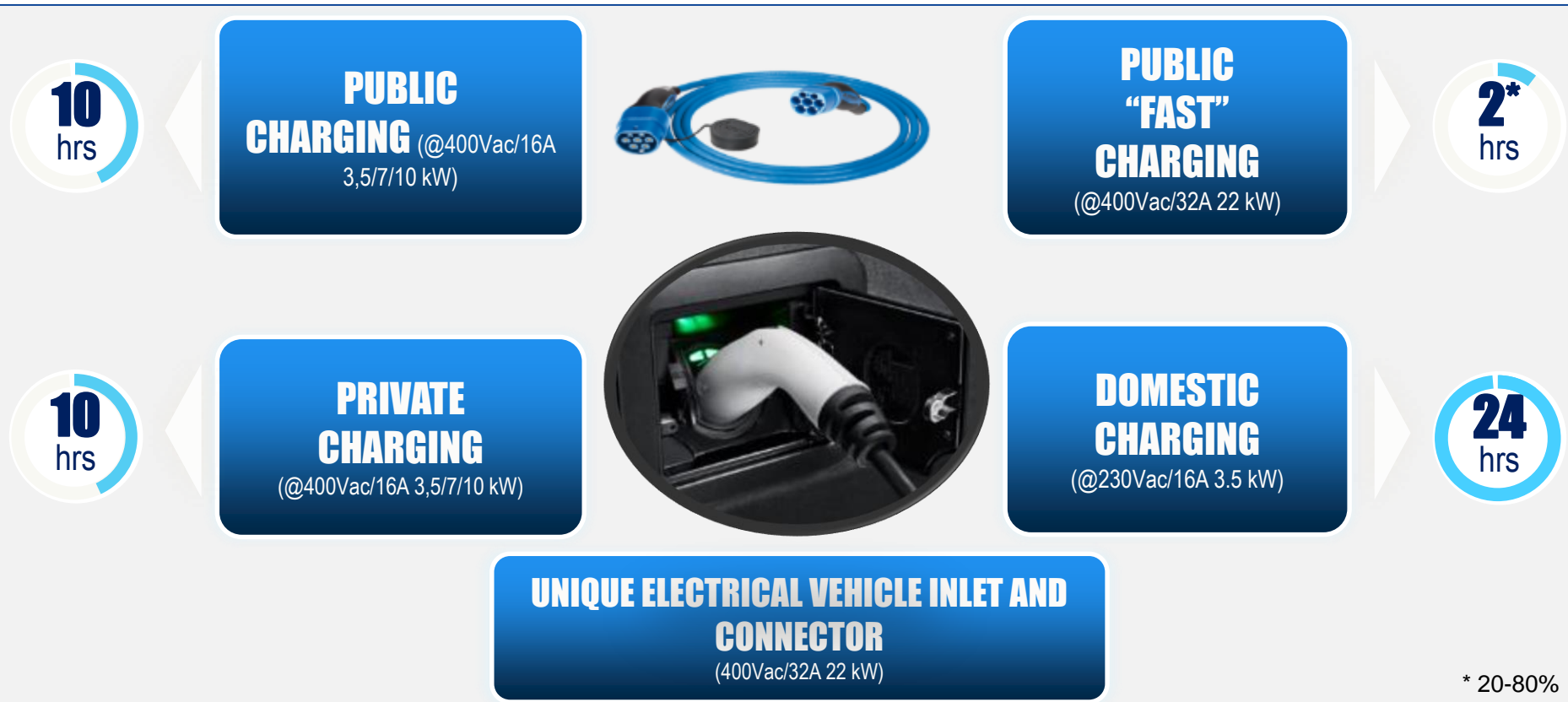


October 2014



# New Daily Electric

Flexible charging modes (Iveco Patent)



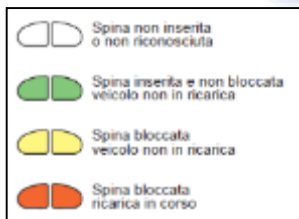
\* 20-80%

# New Daily Electric

Charging cable types for different charging modes



Mechanical interlock  
with integrated LED



Private  
charging



Public  
charging



Domestic  
charging



# New Daily Electric

HMI



## Powerful device with fit-for-purpose design

- Full-featured 7" (17.7 cm) tablet
- Semi-integrated into the dashboard via permanent dock
- Rugged design for out-of-car use

- Essential apps to drive your business
- Best-in-class navigation technology from TomTom
- Demo App Store by AppCarousel with even more apps
- Relevant delivery apps for professional workers

- Custom interface and vehicle management
- Unique user interface
- Bluetooth connection to vehicle telematics gateway
- Dedicated vehicle management app

# User Interface

## Fleet management



Daily Electric Diagnostic

LOGOUT

### Vehicles

Order by: Vehicle name DESC

Vehicle ID	Plugged	Charge	Last Keep Alive Last CAN Message	Last Position	
E4:04:39:17:F3:7E	<span style="color: green;">●</span>	<span style="color: green;">●</span>	Jan 28, 2016 7:52:04 AM Jan 28, 2016 7:52:04 AM	lat: 44.44816, long: 8.97439 - Jan 28, 2016 7:50:29 AM	 
E4:04:39:17:F1:C5 Z_TEST_AM	<span style="color: green;">●</span>	<span style="color: green;">●</span>	Jan 27, 2016 4:12:44 PM Jan 27, 2016 4:12:44 PM	lat: 51.50016, long: -0.12618 - Jan 27, 2016 4:11:45 PM	 
22:22:0E:D7:1A:F6 RG01	<span style="color: red;">●</span>	<span style="color: red;">●</span>	Nov 25, 2015 1:10:24 PM Nov 25, 2015 1:10:24 PM	lat: 45.01217, long: 7.62087 - Nov 25, 2015 1:08:42 PM	 
E4:04:39:2B:18:21 MINIBUS 39 VAN 11078728 (COP21)	<span style="color: green;">●</span>	<span style="color: green;">●</span>	Jan 28, 2016 7:50:12 AM Jan 28, 2016 7:50:12 AM	lat: 45.10897, long: 7.7133 - Jan 28, 2016 7:48:39 AM	 
E4:04:39:2B:13:C6 MINIBUS 38 VAN 11078729 (COP21)	<span style="color: green;">●</span>	<span style="color: green;">●</span>	Jan 28, 2016 7:51:42 AM Jan 28, 2016 7:51:42 AM	lat: 45.10957, long: 7.7122 - Jan 28, 2016 7:50:08 AM	 

To see at a glance

the complete EV fleet and see

- if it's plugged,
- if it's in charge
- and more details

# New Daily Electric

Major changes vs. MY'12



## The new battery system: Designed for Daily

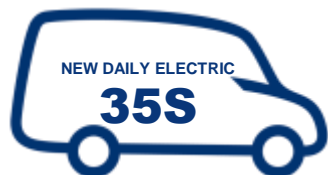
- New Energy Storage System with high density energy battery and high power Supercap
- Efficiency improvement
- Integrated design
- Reduced energy consumption
- Increased lifetime
- New batteries configuration
- New battery balancing

## Vehicle: New Features

- Improved Regenerative Braking with extra-braking and coasting functions
- ESP – ASR
- Hill Holder
- Increased Range
- More efficient cab heating
- New Pedestrian Acoustic Alerting System (PAAS) for pedestrian warning
- New driving modes (Eco-Power)
- Payload increase
- New HMI
- Fast charging (OPT)
- Flexible charging (Iveco Patent)

# New Daily Electric

## Line-up & Range



### CAB

1/2/3 BATTERY + SUPERCAP

WHEELBASE 3000 – 3450 – 3750 – 4100

RANGE → 70/150/200 km

### VAN

1/2/3 BATTERY + SUPERCAP

WHEELBASE 3000 – 3520 – 3520L – 4100

RANGE → 70/150/200 km

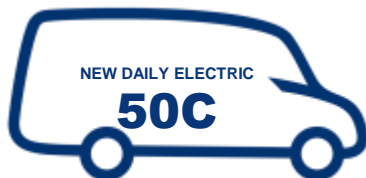


### CAB

1/2/3 BATTERY + SUPERCAP

WHEELBASE 3450 – 3750 – 4100

RANGE → 70/150/200 km



### CAB

2/3 BATTERY + SUPERCAP

WHEELBASE 3450 – 3750 – 4100

RANGE → 130/180 km

### VAN

2/3 BATTERY + SUPERCAP

WHEELBASE 4100 – 4100L

RANGE → 130/180 km

### MINIBUS

2/3 BATTERY + SUPERCAP

WHEELBASE 4100L

RANGE → 110/160 km



# New Daily Electric

Product Improvements vs. MY'12



+ 25% efficiency

+100 kg payload

Range up to **290 km**  
(according to homologation cycle)

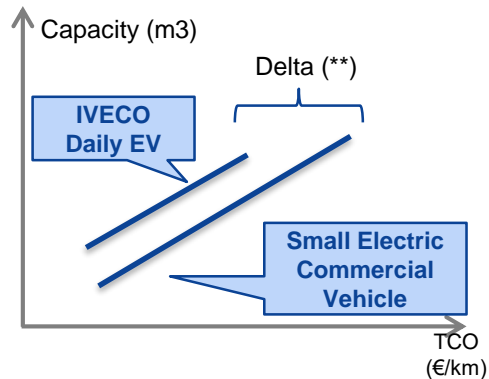
+20% battery lifetime

# New Daily Electric – TCO evaluation

## Fleet Management Model

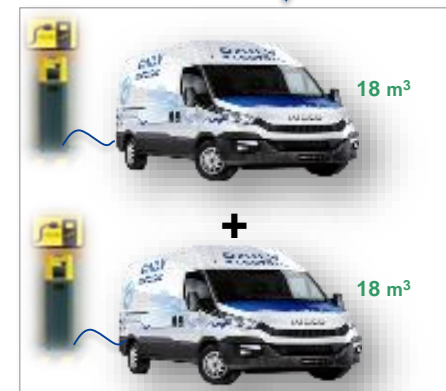
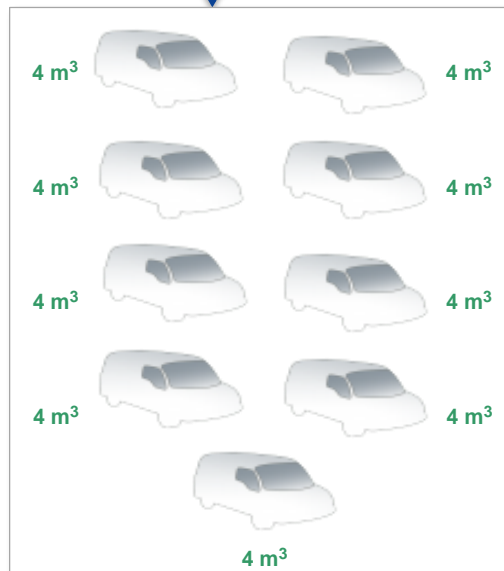
(\*) For each vehicle

TCO COSTS (*)
VEHICLE
DRIVER COST
FUEL CONSUMPTION
INSURANCE
PERIODIC MAINTENANCE
TAXES
EXTRAORDINARY REPAIR
TYRES



(\*\*) OVERALL FLEET TCO REDUCTION

GOODS  
to be provided  
**36 m<sup>3</sup>**



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# Thank you!