

# AC Propulsion, San Dimas, CA

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## tzero™ Technology Makes Electric Vehicles Go (and stop)



### Full-function R&D facility

- Power electronics lab
- Electronics assembly
- Battery module and pack assembly
- Machine shop
- Fabrication shop
- Composite shop
- Battery test lab
- Two 250-hp electric dynamometers
- 4-service bays with lifts

# **tzero<sup>tm</sup> Technology - EV Drive System**

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## **Integrated system**

- 150 kW peak power
- 18 kW charge power
- bi-directional charger
- AC induction motor
  - 220 Nm 0-5000 rpm
  - 13,000 rpm limit
- 100A 13.5V DC power
- Air-cooled

# tzero<sup>tm</sup> Technology – Li Ion Traction Battery



Li Ion 18650 cell  
2.0 Ahr, 3.6 V, 45 g  
160 Wh/kg, \$350/kWh



53P2S modules, 106 cells  
106 Ahr, 7.2 V, 5.7 kg  
135 Wh/kg, \$600/kWh

# BMW, Munich

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The MINI E goes electric with tzero™ technology



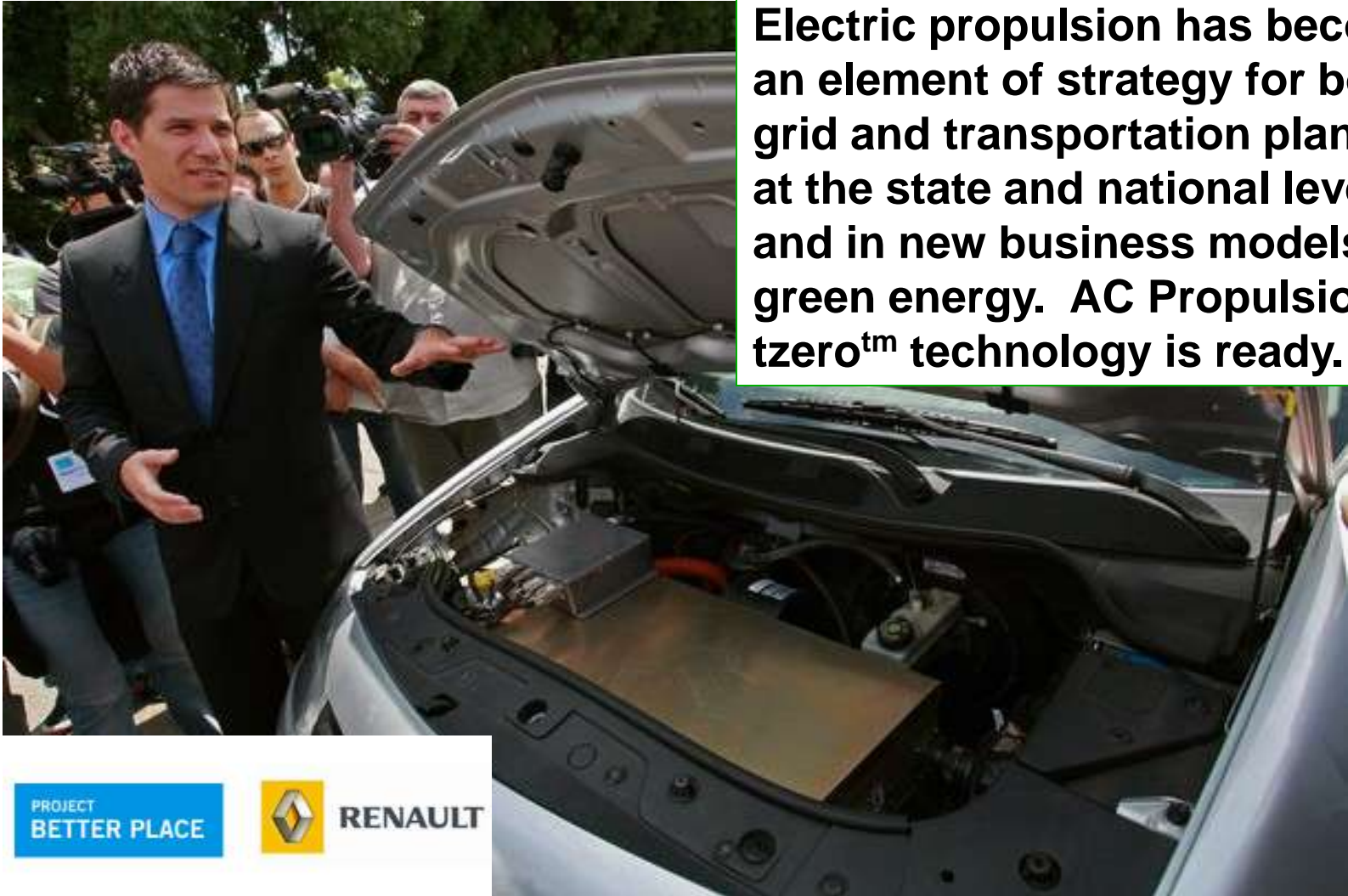
# Yulon Group, Taipei



Yulon Group (Taiwan) licenses tzero™ technology for possible future EV production under new LUXGEN brand

# Better Place, Palo Alto

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Electric propulsion has become an element of strategy for both grid and transportation planning at the state and national level, and in new business models for green energy. AC Propulsion tzero™ technology is ready.

PROJECT  
BETTER PLACE



RENAULT



# Tesla, San Carlos

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**Tesla pays royalties to use tzero™ technology**

# *eBox*, San Dimas

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## Full Function EV

- 5 seats
- Li Ion battery
- A/C, heater, full power
- zero emission
- zero gasoline
- tzero™ technology



## Performance

Range            120 miles  
Acceleration   0-60 mph 7.0 sec  
Top speed 95 mph

# V2G: EVs as Distributed Storage

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V2G is in tzero<sup>tm</sup> technology



# ***tzero*** the Car

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**Ferrari F355, 375 hp V8**



**Porsche Carrera 4, 282 hp F6, 4wd**



**Lamborghini Diablo VT 543 hp V12 4wd**