The US\$15,000 Car

The New Paradigm in Electric Vehicles

Thermal Runaway can cause vehicle batteries to catch fire; it is a serious and known risk in EVs. The EV is normally burnt to the ground.ⁱ ITEZZE deals with Thermal Runaway by making **all** the batteries in the vehicle **'ejectable'** so they can be ejected safely from the vehicle onto the side of the road.

This led to **a new Paradigm** in EVs. Because **all** the EV's batteries need to be removable in order to deal with battery fire, ITEZZE has changed the method for supplying batteries in EVs. So, instead of carmakers supplying the batteries with the vehicle; the vehicle **is supplied 'bare' without batteries**. Thus, the carmaker sells the EV just as a car/vehicle (no batteries). Batteries are supplied later by the car dealer or the customer can source their own (or rent them). This removes **Battery Risk** entirely from the carmakers (see: itezze.com/technical – 'Battery Risk' Button) and reduces the purchase price of the EV significantly to under the price of equivalent Internal Combustion Engine (ICE) cars.

ITEZZE customers can also rent their batteries; so instead of buying a 10 kWh **Resident** battery (or 40 kWh for a bus) to stay in their car permanently, they can hire one from ITEZZE for US\$3/day plus 17½ cents/kWh (1.7 kWh is equivalent to about 1 litre of petrol).ⁱⁱ They can rent a 23-kWh battery for the car's '*Swap Slot*' that can be recharged from their home electricity supply until the ITEZZE swap network is fully functional. The **Regeneration Battery** which collects the power from braking and downhill are normally 2-3 kWh and sell new for around US\$1,500-US\$2,100.

Summary -The model for selling EVs has changed; ITEZZE means carmakers can now sell safe, affordable EVs without '*Battery Risk*'...



¹ The ship with Bentleys, Porches and other cars that burnt off the Azores reinforced to everyone the risk of EV batteries. See - <u>https://au.news.yahoo.com/ship-carrying-cars-fire-near-110851849.html</u>

ⁱⁱ In small vehicles this is based on Hyundai Ionic which is about the same size as the Hyundai i-30; the Ionic uses 11.7 kWh per 100 km; the i-30 uses 7.1 liters of petrol per 100 km