



Asia-Pacific
Economic Cooperation

Advancing
Free Trade for Asia-Pacific
Prosperity

Energy and Transport (at the first glance)

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Electrical Transport



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- (Hyper loop) linear electrical induction motor (not rotational engine) propels the pod in an air tube. Air compression fan and air bearing minimizes the air resistance. Solar panels provides the batteries with electricity
- (Electric Vehicle) Tesla [Model S, 5, 3...], BMW [i3s, Mini electric concept], Mercedes [EQ concept], Audi [Elaine], Honda [Urban EV concept], Jaguar [I pace], Hyundai [Kona], Nissan [Leaf]
- (Electric Bus/Truck) VolksWagen [Sedric-Autonomous], Volvo [7900], Naviya [Alma-Autonomous], Mercedes [E-truck], Green Power [EV 550], Tata electric bus,

Electric Energy View



- (Production) ① Nikola Tesla's US patent No. 685,958 on Nov. 5, 1901: Utilizing Radiant energy capturing the minute particles (comprising solar wind. e.g. proton/electron) electrified positively from the sun and minus electrons from the earth in a condenser (capacitor) to make a current. ② Herman Polson's US patent No. 1,540,998 on June 5, 1925: Conversion of Atmospheric Electric Energy utilizing electrostatic potential difference between upper air and the earth through aluminum balloon covered by sharp pins (1 balloon=17 k-watts always!)
- (Sending) ① Resonant Magnetic Coupling: Specific oscillating current in a coil will deliver the current to the second resonant coil in a long distance. (Witricity)

Continued..and What Infra?



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- (Sending) ② Tesla Coil makes highest frequency's micro wave used to transmit electricity wirelessly (many researches) ③ Wireless power Transmission via solar satellite: electro-magnetic microwave sent from solar satellite can induce electric current on earth (many researches)
- (Conserving) ① 'Apparent energy' made a battery charger with 10% of the current size and without coil utilizing Tesla's 4 battery switch (using a split time gap getting lead ion's inertia performing as extra energy)
- What energy infrastructure for transport we need? What knowledge should we share? Do we have enough and appropriate Research and Development policies?