

Future of Lightweighting Entry



3dtt/Three Dimensional Solar Powered Transportation Technology Solar Powered Sustainable Transportation

All vehicles are Horizontally Oriented. To make them stable and safe they have to have a heavy base and this makes them consume more energy/fuel. A car weighs 1000kg and the passenger weighs 70kg. More fuel is used up for moving the car than what is really needed for moving the passenger. When the weight of the vehicle is less than that of the passenger then real fuel efficiency is achieved. The new technology uses the vertical dimension to reduce the number of components needed to assemble the vehicle and this results in a Vertically Oriented Ultra Lightweight Vehicle where the weight of the vehicle is less than that of the passenger. Moreover a vehicle uses up 30% of the total energy to accelerate from zero to cruising. Again when it stops at any junction 30% of energy is wasted in braking. The Double Decker technology prevents congestion. The Double Decker also prevents accidents since most accidents occur at junctions. The Double Decker prevents head-on collisions which invariably result in fatalities.

In the new technology the Ultra Lightweight Vehicles need very little energy and operate on Solar Power and thereby prevent Pollution and also give freedom from dependence on fossil fuels. In the new technology there is no need to own the vehicle. All the vehicles will be owned by the operator and will be in continuous use and will not remain idle whereby the demand for parking space will disappear. The addition to own a vehicle will disappear since the new technology will provide Door-Step-Delivery. One single invention solves multiple problems.

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