

Hybrid Automobiles - the facts.

Dear ,

Since the invention of the internal combustion engine for automobiles back in the late 19th century very little has changed; we still require the burning of fossil fuels to propel our cars from A to B. The problem we all face is that we are continuing to emit harmful emissions into our environment, resulting in global warming. (Burning fossil fuels account for 87% of global warming and 20% of this comes from road transport).

Hybrid powered vehicles improve the efficiency of existing internal combustion engines by supplementing them with electric motors that self regenerate to provide emission free driving at low speeds. They will also "switch off" the petrol engine when not required (ie at traffic lights or in a traffic jam) to save burning fuel unnecessarily.

There are many types of "hybrid" vehicles on the market, they are categorized as follows:

- **Micro Hybrid** - (stop / start) where the engine automatically stops and restarts when necessary.
- **Mild Hybrid** - (stop / start + battery) however the petrol engine is always running.
- **Plug in Hybrid** - Needs to be connected to a domestic supply for its power source.
- **Full Hybrid** - Has the ability to drive on electric power alone.

Until we get full development and production of fuel cell powered cars, (Lexus have over 500 engineers working full time developing fuel cell technology) which is about 15 to 20 years away, the hybrid powered vehicle will be the next generation in the history of the automobile.

Did you know ?

- Diesel engines emit 25 to 400 times more Particulate matter than a petrol engine ? (Particulate matter is carcinogenic and very harmful to humans)
- 1g of Nox can create as much global warming as 190g of Co₂ ? (Nox = Oxides of Nitrogen that cause smog and is an irritant to asthma sufferers). As a result, some European cities are considering a ban on diesel powered vehicles unless they are fitted with particulate filters.

Whether you want fuel and personal tax savings, congestion charge and VED savings or want to help reduce global warming, it has never been a better time for you to consider switching to a Lexus hybrid powered vehicle.

For further information about Lexus hybrid drive or to arrange a test drive please call me, **Graeme Curtis** on 0161 480 0660 or 07971 206753.

I look forward to hearing from you,

Yours sincerely,

Graeme Curtis