**Green Ixworth**

**Home Energy Campaign**

**Electricity: Generating, Storing and Shifting**

The UK has increasing supplies of sustainable electricity (not from fossil fuels). The main type in the UK is wind. Other sources include PV cells, tidal, hydro and others technologies.

Home photovoltaic cells are usually installed on the roof. There is no longer a national tariff paid to PV owners whose excess of electricity goes into the national grid.

Investment in wind: e.g. Ripple sell you a share in a wind turbine and your bill is reduced according to its electricity production.

In the UK the peak of electricity demand is from 4 – 7 p.m. To meet this demand the national grid still needs to draw upon fossil fuel sources. Storage of cheaper, greener electricity at night in **batteries** can avoid using power from the grid at these times. Large batteries in electric vehicles could be used for this: “vehicle to grid” technologies are being researched and tested.

PV cells, batteries (and EVs!) are significant investments. The outlay is recouped through reduced energy bills. They might also be expected to increase the value of your home.

Battery-to grid or vehicle-to-grid systems would likely use the incentive of paying owners for the electricity they supply to the grid.

www.greenixworth.org