Abstract: Dallas is known to be one of the most vulnerable cities prone to natural disasters like hurricane, tornado, cyclone, floods, thunder storms and gusty winds. As adept as humans have become at designing and building safer cities, it is high time that we think about tapping energy from the powerful forces of nature.

The forecasting of the disaster can be done by keeping a track of the historical data and weather forecasts on a day to day basis. A prediction period for the disaster can be generated and energy can be captured by knowing the velocity of the wind during cyclones, hurricanes, tornadoes, thunderstorms etc. which goes up to almost 74-155 MHP. With proper weather forecast we could formulate a system to trap and store the energy produced during the natural disaster. This energy can be utilised for human needs.

The challenge would be however, to create a system which can withstand the strong winds and also to store the energy obtained from it with high efficiency and at an economical rate so that we can reach a breakeven point in less than 10 years.