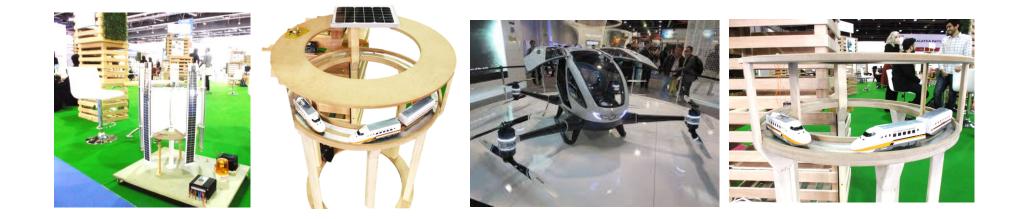
Powering the Future





A LOOK AT THE FUTURE







ARE THE DAYS OF MEGA POWER PROJECTS NUMBERED?

Utilities have substantial \$\$\$ investments to recover so wont happen overnight

but not needed for the future







FUTURE WILL BE SUSTAINABLE RENEWABLE ENERGY

- 1) Solar
- 2) Wind
- 3) Bio Mass
- 4) Waste to Energy
- 5) Mini Hydro

- 6) Hydro
- 7) Ocean Wave
- 8) Nuclear
- 9) Geothermal







DISTRIBUTED ENERGY REPLACING

UTILITY SCALE ENERGY

Minimal Transmission Losses

Fast Track – Conception to Generation

No need to mobilise \$ Billions

Environmentally friendly or at least - Neutral





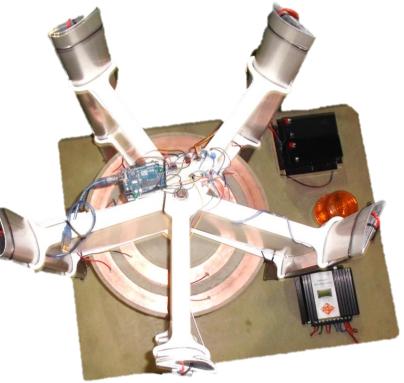


BASE LOAD GENERATION STILL NEEDED

Hydro (+storage – fast start)

Ocean Waves 24/7

Nuclear??







RENEWABLES

Flexible, Affordable, Environmental; Waiting for legislation to catch up







STORAGE WILL CHANGE EVERYTHING

24/7 Availability – Flexibility to match Supply with Demand







POWER WALLS / DOMESTIC STORAGE

Available now - US\$10,000 +/-And falling

Hybrid / Electric Cars Battery Life – improving Weight & Cost – reducing Technology - advancing







INTERNET OF THINGS

Impacting Now Home Controls Autonomous Cars Security Tracking Location Tracking



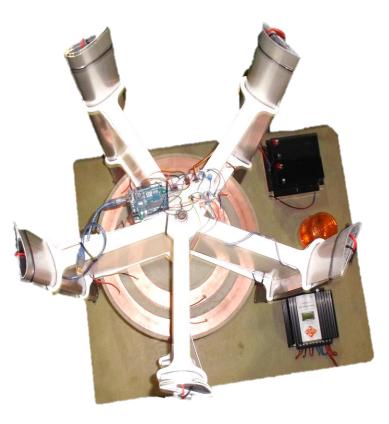




SOME INSURANCE IMPLICATIONS

- Electric Cars Silent
- Pedestrian Safety 5 Senses
- Autonomous vehicles
- Centralised Control Failure? / Hack
- Multiple incidents around the World from
- single failure
- Global / Regional Control







HOUSES OF THE FUTURE

Integrated solar generation and storage designed

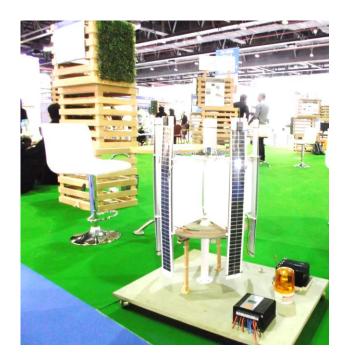
Rooftop / Solar panels and wind

Solar film

Feeding the grid

Powering the Autonomous Car

Wireless Power - no cables or plug sockets







CARS OF THE FUTURE

POWER GENERATION FROM SOLAR FILMS CHARGE AS YOU DRIVE COOL AS YOU PARK

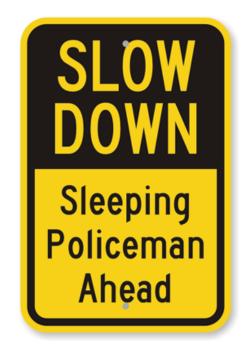






SHIFT IN RISK PROFILES

- Who drives [flies] the car?
- Domestic appliances is it still your
- washing machine?
- Fuelled via wireless power no wires,
- cables, plug sockets needed
- Still a "flaming chip pan" exposure?? Or
- will the IOT eliminate that as well?







Hybrid Solar / Wind already operating Street lighting powered by "Sleeping Policemen" Weight of vehicles

"Plastic" Roads





✓ NEW CHALLENGES ✓ NEW RISKS ✓ NEW RATING MODELS ✓ NEW THINKING





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