**Natural Hazard & Resilient Roadmap**

**Purpose**

Improve and deliver a strategic framework to address fuller understanding and preparedness of challenges in respect of hazard and resilient risk on NG Infrastructure.

- Medium term provides direction in determining the pathways in a more structured way.
- Long term - improvement in qualitative and quantitative data aiding production of a robust response plan and capability to undertake fast response and further risk reduction through partnership/collaborative working.

**Resilience**

Ability of assets, networks and systems to anticipate, absorb, adapt to and / or rapidly recover from a disruptive event.

- Secured through a combination of activities or components principally Resistance, Reliability, Reduction and Response & Recovery.

**Risks and Challenges**

- **New types of event** – arising under climate change; solar gain on urban assets.
- **Low probability high impact events** - more interruptions to networks.
- **Extreme events** impact upon the electricity transmission network and security of supply.
- **Resilience of specific infrastructure** - vulnerability to major flood incidents.
- **Urban heat risks** – solar heat faults future fault distribution from solar heat faults their rare occurrence makes it difficult determine a relationship between fault numbers and weather events.
- **Offshore transmission network** - threat that climate change poses to infrastructure (e.g. interconnectors) and its operation.
- **Spatial distribution of risks** - any spatial variations in the sectors’ climate change risks.
- **Repair and service restoration times**.
- **Combination of one or more events** above.

We would like to hear both from academics and energy companies willing to develop new collaborations in this area. Please contact Shanti Majithia to discuss shanti.majithia@hotmail.com.