2012 Olympics – National Grid’s preparations

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Objectives

- Keep everyone safe

- Support the UK in hosting a successful Olympic Games

- Reliability: Provide additional resilience to Olympic Venues and key sites AND

- Continue to provide our usually resilient service to all of our customers
Timeline

Olympics Key Dates
- May 12: Torch Relay Begins 19th May
- Jun 12: Accredited Media Centre Opens 20th June
- Jul 12: Athletes Village Opens 20th July
- Aug 12: Olympic Opening Ceremony 27th July
- Sep 12: Paralympic Opening Ceremony 29th August

National Grid
- Olympic Monitoring Centre in Operation
- "Ghost" SRT in Place

Electricity
- Protection Testing
- Security On Site
- Substations Manned

Gas Distribution
- Venues Emergency "Flying Squad" in Operation
- Olympic Park Emergency Team in Operation
Consider this…

- The iconic mens 100 metre sprint event
- The line up is complete and the finalists are awaiting the starting gun to begin the race
- Then … the unthinkable …everything goes dark
It began long before 6th July 2005 …

- During 2004 - Preliminary discussions on undergrounding of overhead lines traversing the Olympic Park

- 2005 – 2009 - Major construction works - The Power Lines Undergrounding Project

- Resilience considerations - what is the starting point, what makes you do anything more than usual?

- Best practice - learning from previous host nations' utilities
Electricity: System Resilience

- We will have greater network redundancy with “Lockdown”
- To reduce the risk of outages a moratorium on planned maintenance will be put in place
- We will staff key substations for faster response capability
- We will have 24 x 7 monitoring (network and systems) with additional 24 x 7 support arrangements
- We will plan for a wide range of scenarios and contract with strategic generation to ensure standards are maintained
- We will have daily calls with all key parties; including UKPN
- We will run a strategic response structure with a Silver Command call each day
- Demand/Reserve – we will cater adequately for supply / demand variations
Electricity : Asset Strategy to prevent an asset failure

- We identified priority assets
  - In collaboration with Distribution companies, ODA and LOCOG
  - Based on Venues, transport hubs and other key sites
- We are planning to maximise circuit availability
  - A maintenance “Lockdown” from 3.6.12 – 9.9.12
- We had a maintenance review
  - Prioritised outstanding maintenance and rectification of defects
- We will test the Delayed Auto Reclose and protection systems just before the Games
- We remain vigilant to new threats / challenges e.g. common failure modes, environmental issues such as drought, etc.
Electricity: Asset Fault Response and Repair

- Substation manning enables fastest possible response and diagnosis
- Repairable faults may be dealt with during the Games period (judgment and discretion of MDE Manager)
- Heavy load routes agreed with the Highways Agency avoiding the Olympic Route Network, in case needed
- Agreements with sub-contractors for availability and faster response where this may be beneficial
Access

- Travel time amended to reflect additional traffic congestion while carrying out our business as usual gas emergency service
- Attending gas emergencies at Venues, the Olympic Route Network and other key Olympic locations
- Vehicle Access Permits to use ORN and gain clearance at security cordons
- Accreditation of our staff to authorise entry to Olympic Venues
Stakeholder management

(LOCOG)  Olympic Delivery Authority

HSE  Centre for the Protection of National Infrastructure

IOC  London Resilience

CPNI  Transport for London

Local Media

nationalgrid
The power of action.

Utilities  Transport

Construction  Security

Prime Minister  Chancellor of Exchequer  Home Secretary

Minister for Olympics

Scottish and Southern Energy  CE Electric UK  NEDL  YEDL

ScottishPower  E.On  Central Networks

Northern Gas Networks  UK Power Networks

Western Power Distribution  Wales & West Utilities

E3C

ofgem

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Q&A

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