

General Update

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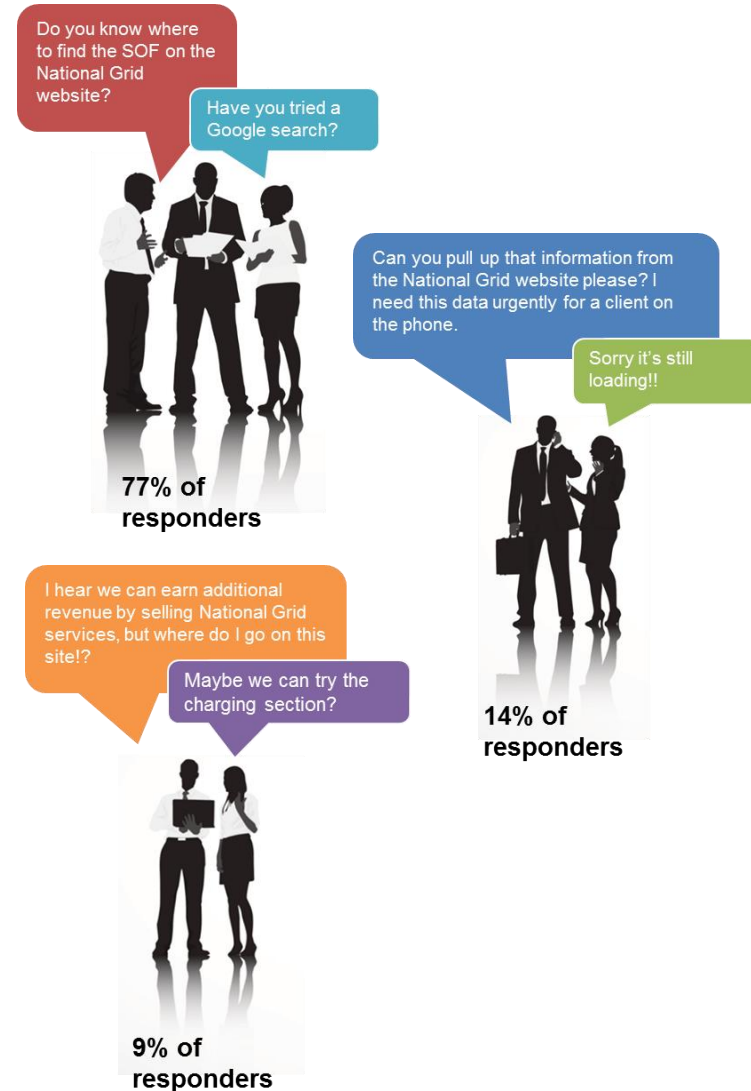
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Nationalgrid.com upgrade project

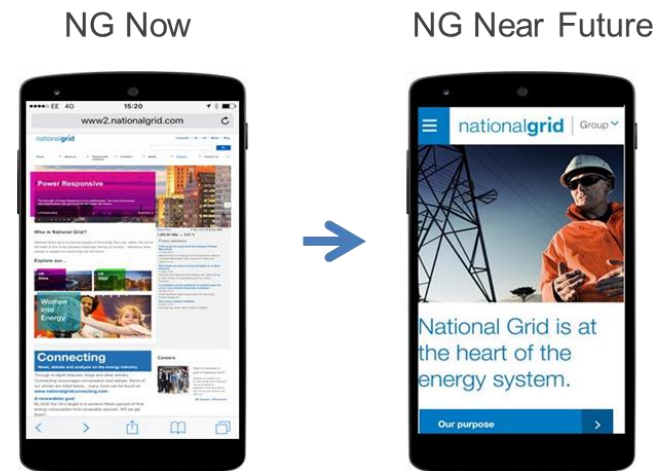
The case for change is driven by customer feedback

- Both the industry and **customer expectations** are changing rapidly
- We have identified 3 key improvement themes
 - **Search and navigation**
 - **Speed and functionality**
 - **Language and content**



Next steps

- User testing to be conducted on the designs within next few months
- Go live is scheduled in **Q3 2017**
- Further user releases and testing will be done post go live
- Phase 2 of the website project will look at:
 - Refinements
 - Content design
 - Enhanced functionality



Summer Minimum



Footroom services

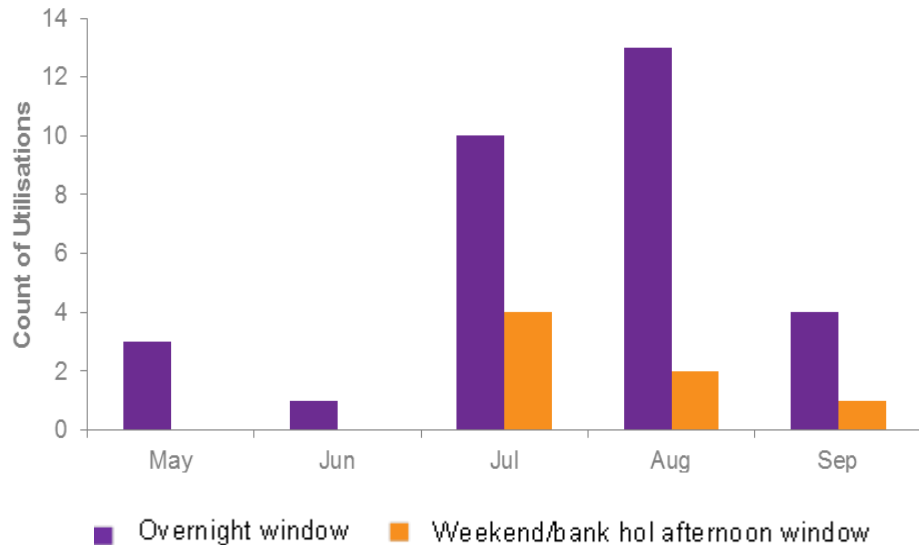
- With increasing levels of inflexible generation, reducing demand, and a requirement for inertia providing generation to be generating over the minimum of the day, footroom on the system is increasingly being eroded.
- The increasing requirement for footroom actions is resulting in more costly actions being taken more regularly, such as actions on inflexible generation.
- The footroom services are being sought to provide alternative options to manage the footroom requirement on the system and will be used alongside the current actions in the most cost effective order, taking into account system conditions.
- Utilisation of agreements will contribute to addressing costs of Operating the System by out performing alternative actions on the network

Outcome and looking forward

- Super-SEL & Pumping Profile service
 - Bi-laterally contracts in place for Summer '17 requirement (1 year)
 - Going forward National Grid is looking at an overarching foot room tender for Summer '18
- Static HF Service
 - Incorporate into monthly FFR tender process to allow access to more participants
 - Requirements included in monthly FFR tender requirements

Footroom services – Demand Turn Up

Demand Turn Up instructions per month



- Shift demand or reduce embedded generation at times of low national demand
- 323 instructions in 2016, totaling 10,800 MWh (May-September)
- £61.41/MWh average utilisation price

- 2017 service runs for duration of British Summer Time
- 138.2 MW accepted from 6 parties in Fixed tender
- Further opportunities to participate in Flexible service from 14th April
- More info at <http://www2.nationalgrid.com/UK/Services/Balancing-services/Reserve-services/Demand-Turn-Up/>

Summer Outlook

Summer Outlook report coming soon



- The report presents our view of the electricity and gas systems for April to October.
- It is designed to support your preparations for the summer ahead.
- We've included new spotlights on the tools and services we can access to help us balance the system during periods of low demand.

Download the report and sign up for our webinar:

<http://www2.nationalgrid.com/uk/industry-information/future-of-energy/>

