



6th Smart Grids & Cleanpower Conference  
3-4 June 2014, Cambridge, UK  
The Landscape for Smart Grid

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# An (Imperfect!) Storm

## Crisis in Ukraine

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**CRISIS IN UKRAINE**  
Pro-Moscow separatists in eastern Ukraine have escalated the political turmoil that threatens to tear the country apart.

10:23pm WORLD

## Gazprom delays Ukraine gas threat

April 1, 2014 11:13 pm

## Coalition eyes plans to allow fracking under private land

By Elizabeth Rigby, Deputy Political Editor



companies to explore for shale gas.

Exploration companies would be given powers to drill under privately owned land as part of government plans to kick-start Britain's nascent fracking industry.

The coalition is working on proposals, included in the Queen's Speech next month to change trespass laws to make it easier



GOOGLE

## The Real Reason Google Paid \$3.2 Billion For Nest

The potential market for its products could be big, like really big

By Venetia Kopytoff Jan. 14, 2014 10 Comments

Facebook 341 Twitter 236 +1 140 LinkedIn 49 Reddit

Google's ambitions are almost limitless, as it has proven time and again over the years. The company has pushed far beyond its roots in web search into smartphones, self-driving cars and robots. Even more is in the works.



## MailOnline

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**'The lights will go out over Britain': Shares in energy firms drop 5% amid warnings of blackouts from Miliband's plan to freeze bills**

May 26, 2014 3:33 pm

## Apple sees the light in push for Jetsons-style home automation

By Tim Bradshaw in San Francisco



Apple is readying a new software platform that would turn the iPhone into a remote control for lights, security systems and other household appliances, as part of a move into the "internet of things".

Apple plans to take on rivals Google and Samsung and make a "big play" in the world

of smart home technology at its Worldwide Developer Conference on June 2 in San Francisco, according to people familiar with the matter.

# Say it quietly but...

Hubs

IHDs

CADs

Smart Electricity

Smart Gas

Load Control Switches

Prepayment



Wi-Fi

TV

Set Top

PCs

Tablets

Smart Phones

Thermostats

**...THE INTERNET OF THINGS IS HAPPENING**

# What Of The Data Debate?



# Smart Grid: The Early Years

## 2011

Dedicated Technology

Monolithic

All About The Grid

Lumpy, Brute Control

Intangible For Consumers

Accepted On Cost

Stove-piped

## 2014

ANY Technology!

Infinitely Distributed

All About The Data – ALL Of It!

Detailed Opt-In Management

In Everyone's Hands

Chosen For Value

Open To All

# Where Next? Thoughts On Direction

**Pace of evolution is accelerating**

**Dedicated solutions already out of date**

**Smart Grid must become part of IoT – and IT IS**

**But where will the dominant force come from?**

**Technology window is open – max 24 months?**

**But players MUST embrace all worlds**



Landis  
|Gyr+

manage energy better

Thank you