These Players that are reinventing energy models in Europe... for which value?

March 2015



Who we are





Capgemini: Global Business Partner of Choice for Utilities with unique industry thought leadership

- We provide services to 23 out of Top 25 Utilities*
- We are one of the world's largest business consulting, systems integrators and outsourcers for energy & utility companies, ranked by Gartner based on 2012 revenue:
 - #1 in Utilities for IT Services in Western Europe**
 - #3 in Utilities for IT Services Worldwide**
- IDC positioned us as a leader for IT services in the EMEA Utilities Market 2013 Vendor Assessment. Our best score in the current capabilities criteria is for our "Range of Capabilities" and "Range of Offering." Within the Future Strategies criteria, we scored very well for our "Portfolio Strategy" and "Customer Service Strategies." ***
- According to a leading market analyst firm, Capgemini is a leader in smart grid and advanced metering infrastructure solutions.



European Energy Markets Observatory

- 16th edition released in October 2014 in cooperation with Natixis, CMS Bureau Francis Lefebvre, VaasaETT
- Visit:

www.capgemini.com/eemo

Points of View

- Digital Transformation Benchmark - Emergence of the Digital Utility
- Advanced Distribution
 Management Systems
- International Market Entry in the Photovoltaic Industry
- Customer centric digital platform for utilities





Capgemini Group: 125,000+ employees, €10.3 bn revenues in 2012 Utilities Sector key figures: 8,900 consultant²s, €729M revenues (7% of group total)

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* Source: Platts' 2012 Top250 energy company rankings

** Source: Gartner, Inc., "Market Share: IT Services, 2012", Kathryn Hale et al, 29 March 2013 *** Source: IDC: "IDC MarketScape: IT Service Providers in the EMEA Utilities Market 2013 Vendor Assessment," Doc #EIOS02V, May 2013. We initiate a discussion about the new business models and the reality of Utilities business value in Europe

- Informal interviews with our clients / partners
 - New players
 - Equipment providers
 - Incumbent operators
 - ...
- Our Utilities experts
- Our discussions with the Chair of Energy and Environment at Paris Dauphine

We do not claim to have all the answers but to provide some elements of thought and leads based on our own convictions

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How to explain that given such market conditions....

Overcapacity in a context of decreasing consumption

- Lack of positive signals to the market
 - Barrel of Brent prices drop
 - Tons of carbon / 6 between 2008 and 2013
 - Report of the carbon tax in late 2013 in France

Energy efficiency

- ROI proposed too long (5-7 years on average) compared to expectations of contractors (3 years)
- Substantial gap between announced energy savings and economies recorded / technical difficulties in measuring the energy savings
- Regulatory uncertainties
 - Evolutions of tariffs for renewable energy
 - Discrepancies wholesale price vs. retail price
 - Different capacity mechanisms provided in Europe

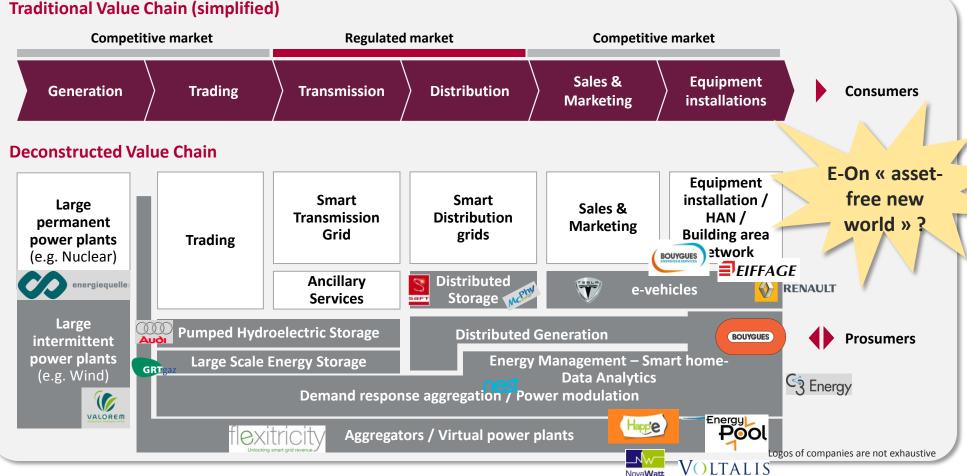
The change in the energy production structure induces perturbations on all related aspects: technical, economical, political and regulatory spheres do not really know how to behave

Source: Analyse Capgemini Consulting



...a bunch of new players are entering a deconstructed value chain (but for which value ?)

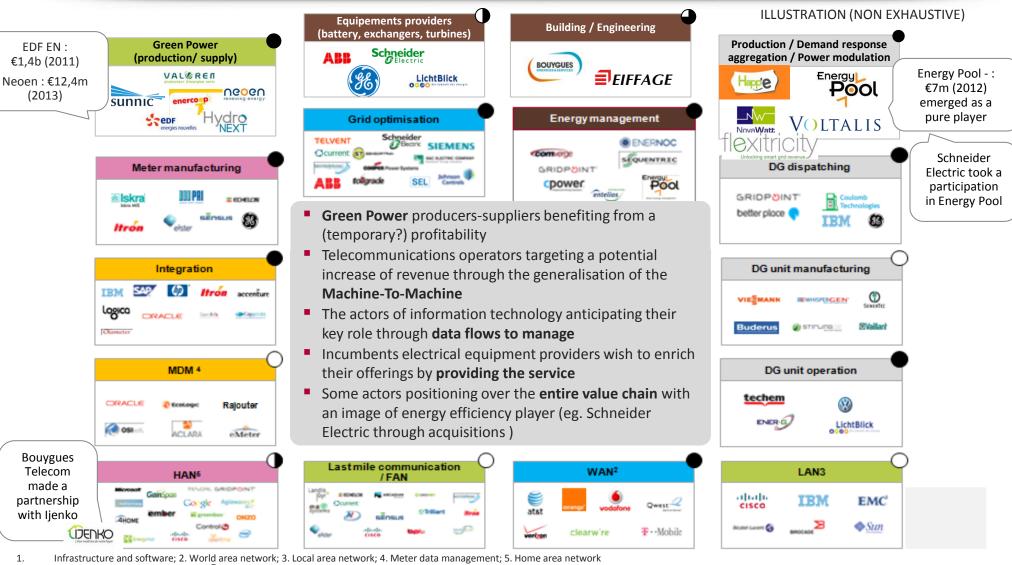
ILLUSTRATION (NON EXHAUSTIVE)



Source: Analyse Capgemini Consulting



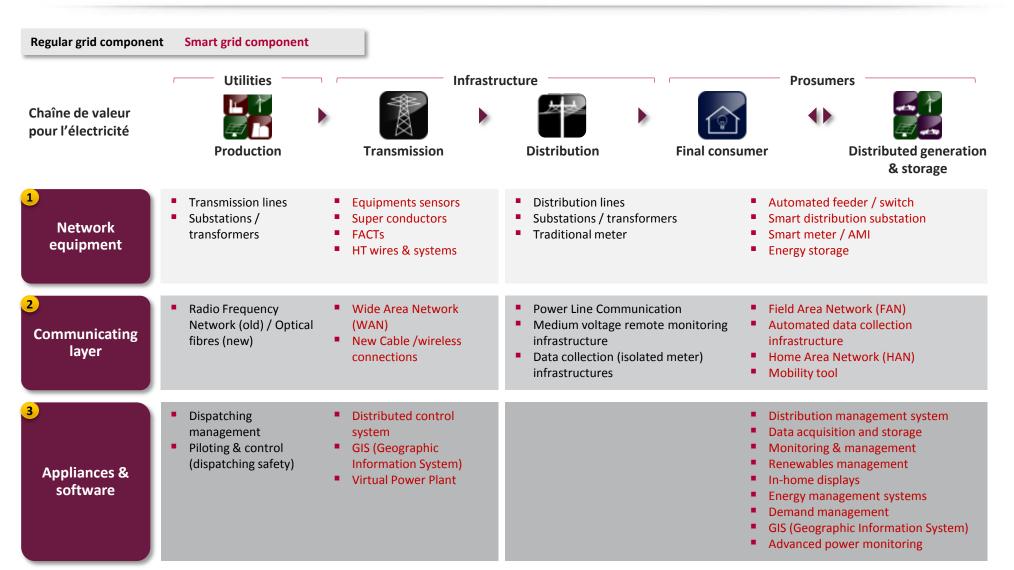
The players logics are driven by potential synergies (technological and commercial)



Source: GTM research-Capgmini analysis Capacity to act as per operator (vs. mainly provider)

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A driving factor: the layers of the Smart grid chain



Source: Market research & CC analysis



The value reality of new business models is highly questionable... Remember the early 2000s

Refocusing /acquisitions

A vast movement / attraction for diversification and global offers

- Context:
 - Deregulation
 - A technological opportunity: Power Line Communication
 - A "dematerialised" player (Enron (!))
 - Telco convergence : "the Box"
 - GE experiment : control of the **industrial assets information** chain
- New offers
 - BtB :Outsourcing offers for industrial core processes (multifluids offers, energy management)
 - BtC : integration of services =>"multitutilities" in UK

Horizontal integration / multi-utilities

Consistency of market positioning

Followed by « Back to economic fundamentals»

- Business refocusing
 - Long Tem Debt / ROCE → no sustainability of diversification for medium size actors (eg. UK RECs)
 - "Go to Market" issues
 - Multiplicity of offers that were difficult to value
 - Difficulty to leverage mass market with various specific offers
 - Ineffective commercial synergies

Lessons learnt

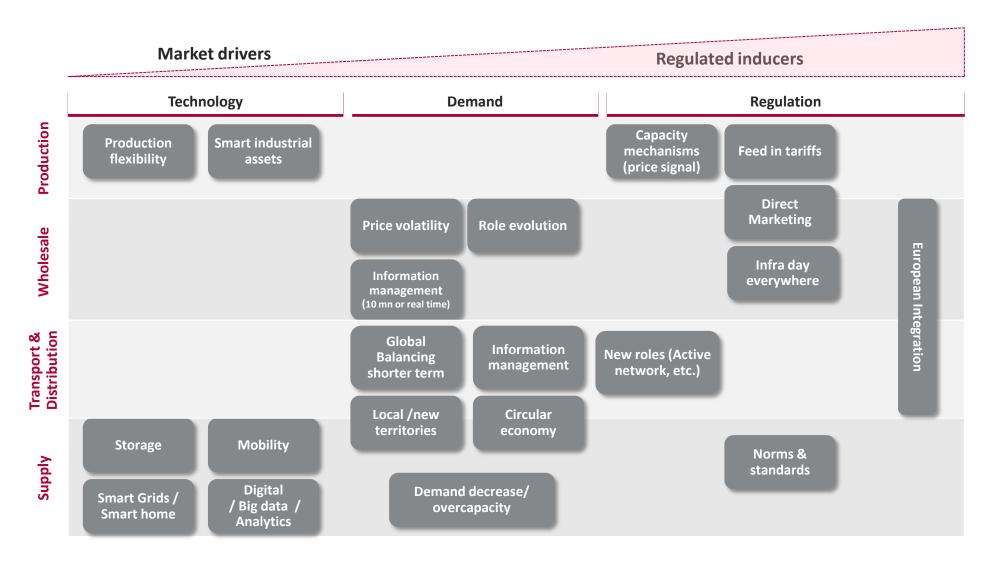
- Need for market positioning consistency
 - Product/ market adequacy: strategic segmentation, rationalisation of offers
 - Value chain positioning \rightarrow critical size (with which assets?)
- Thinking technology in terms of ROI → potential technological opportunities are not a sufficient condition for short term
 strategic business choices

What is the robustness of the new models? What is their sustainability?

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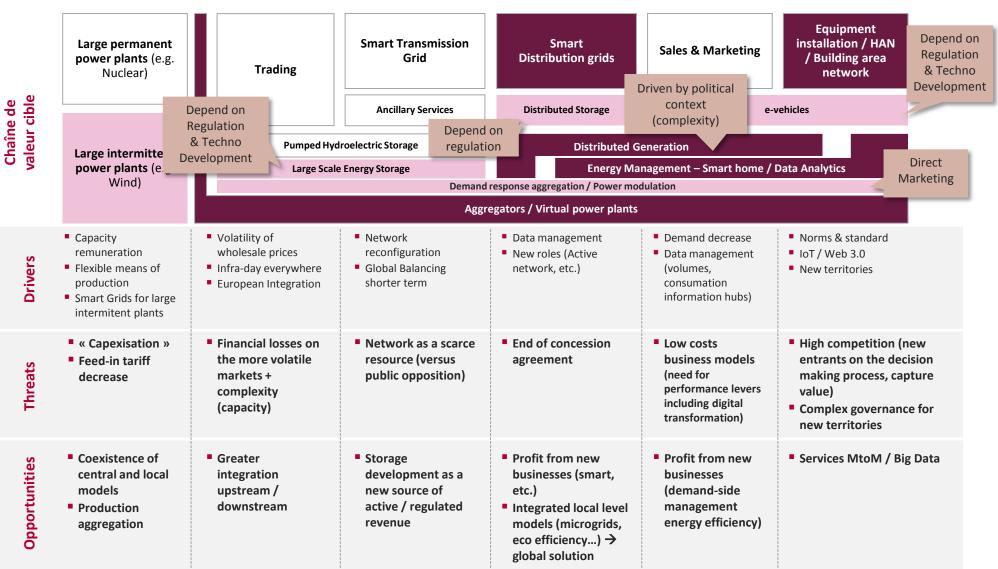
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We identified business models drivers that are either market drivers (firm) or regulated inducers (evolutionary, risky)



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So where is the value? Value for new entrants mostly stands into 2 activities: **local level integration** and **data analytics**

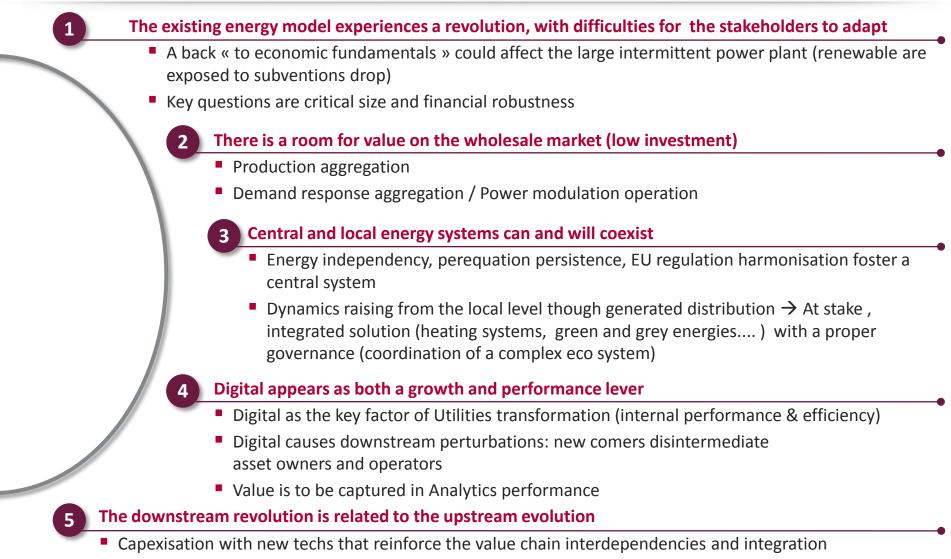


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Value

We are exploring 5 leads



Distributed generation

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