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« Big Data and transitions »

By Gabrielle GAUTHEY – Director of investments and local development, CAISSE DES DEPOTS



« Public policy must be able to make room for all these innovations while at the same time preserving the capacity to finance the major energy infrastructures that remain essential over the short to medium term. »

« We are today experiencing a paradigm shift in our energy model. The future is towards decentralisation with more renewable energies and control over consumption. And the private individual is at the centre of this dynamic which brings together consumers, producers, suppliers, aggregators, energy technicians etc...

Another factor for energy change: digital technology which enables finer piloting of the energy systems and facilitates interactions between players. The use and the processing of the data - the Big Data – could radically transform the value chain and the tariff framework.

Innovation covers not only all the energy technologies, but also the financial tools which must be able to meet the specific expectations of both the public players – in particular the local authorities – and the citizens.

The Caisse des Dépôts provides backing for public policy and makes the demographic, regional, ecological, digital and energy transitions the pillars of its strategy.

From the energy standpoint the scope for investment in innovative projects is broad: gasification, marine energies, geothermal energy, smart grids, hydrogen, etc. The financial terms proposed are also innovative; this is the case with energy efficiency where the expenditure avoided has to be highlighted. This enables in particular the setting in place of the « intracting » scheme with several universities. This offers a virtuous circle whereby the energy savings made enable the initial expenditure to be reimbursed and fresh investment made.

Being a question of energy data, the Caisse des Dépôts helps the regional players think about the issues involved. It is currently conducting a study, together with the metropolitan areas of Lyons, Bordeaux, Montpellier, Lille and the Sipperec (Paris), to identify the right pooling levels. It is also

investing in firms that enable these players to monetize the data (Dawex) or convert it into innovative services (opendatasoft).

On another level the Caisse des Dépôts is at the forefront of thinking about the blockchain technology, which could facilitate financial flows in a more decentralised energy system.

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See you at 9.30 a.m. on 24 January at the Energy Conference to attend the plenary session « Big Data: a tool for what local transition? », conducted jointly by **Gabrielle GAUTHEY** and **Carlos Moreno** – Chairman of the Scientific Committee, International Forum of the Human Smart City, **Waltraud Schmid** – Director of the Energy Center in Vienna, **Jean-Pierre Frémont** – EDF Local Authorities Director and **Isabelle Drochon** – Manager of GrDF's "Consumption data processing and valuation" program.

For more information about the CAISSE DES DEPÔTS: <http://www.caissedesdepots.fr/>

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