Interoperability to Naturally Grow
Power Delivery Infrastructures

Olivier Huet, Thierry Coste, Jean-Philippe Tavella, Frederic Gorgette, Richard Schomberg
EDF
richard.schomberg@edf.fr

Many Grid initiatives are providing some value in working across the entire infrastructure to augment the functionalities and get more value in the interaction between any mean of generation and consumption. But it is just the beginning of the journey.

Designing an entire infrastructure from scratch would be one of the most complex enterprises of the century. Taking into account *the huge legacy and the specific nature of "perpetual" systems* built in an evolutionary way over time, is adding even more complexity. The target is moving, and the challenge to be solved can be compared to the one of large scale *"urban planning"* (24/7 operation with old, new, under construction parts).

Not to be just philosophy or sophism, a logical scaffolding presentation, a thrilling Story could give *a new dynamic* for the on going initiatives, and allow hesitant players to not just wait that results will become publicly available. Potential players should see what difference their contribution could make. The Story should demonstrate a complete path (actually their might be several possible) and should explain the rationale for the proposed options, and why not others.

Some technical *projects should be launched to address the specifically systemic nature of the challenge* the industry is facing (energy related projects, optimal intelligence distribution, system performance allocation, standard technical bricks design).

A coordination of the on going initiatives could make the difference by proposing a mechanism that will develop progressively technical solutions that can be more and more *pervasive and effective in transforming progressively the infrastructure,* with at the same time *a proliferation and addiction process* for the players on the field.

Properly partnering with standards organizations can also be a powerful propagation vector, but it might not be enough as those organizations are also struggling with the same issues.

Simple models can have incredible impact like the Linux or Napster "Open Source type" viral/genetic model.

Lets just organize and launch a new Open Source success story!