Linky Program

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ENEDIS

AMI strategies, experiences and lessons for India
Agenda

1. Linky towards the electric network of the future
2. Key figures
3. Strategic issues
1. Linky towards the electric network of the future
At the heart of a new ecosystem

- Prosumer behaviours
- Energy efficiency

- Renewable Integration
- Home and building management systems for smart cities
- Electrical grid management
- Smart metering
- Energy storage
- Street lighting management
- Charging spot management
1. **Linky towards the electric network of the future**
   
   Overview of the Linky system

   More than a smart meter, **Linky** is a complete smart system.

   - **Data transfer using G3 PLC Protocol**
   - **Data concentrator**
   - **Group housing equipped with Linky meters**
   - **Supervisory control centre**: > 8M events / day in target
   - **Consumption data**
   - **Electricity Supplier & Customer**

   bidirectional, scalable, interoperable, secured
1. Linky towards the electric network of the future
   The Linky system in detail
2. Main targets and key figures (cut off date: 20th Feb. 17)

- **35 M** smart meters
- **700 000** data concentrators
- **6 years** industrial roll out
  - 35 000 meters installed / day
  - 5 000 operators in the field
  - 800 000 meters manufactured / month
- **3 M** smart meters
- **50 000** data concentrators
- **6 vendors**
- **17 K** meters installed / day
- **400 K** meters manufactured / month
- **2 K** operators
- **> 95%** daily collection rate (23h59)
- **> 92%** on time remote operation
- **€ 5 BN** CAPEX
- **98 %** daily collection rate
- **96 %** remote opérations (without retry)
- Compliant
3. Strategic issues
Main risks to manage to be successful

Governance and management
- Establish a clear, precise, understandable decision process to ensure efficiency and speed
- Create a climate of trust with the sponsors, and different kind of stakeholder (internal + external)
- Set up an end to end approach to get a full vision
- Develop contract management tool to determine the key drivers of performance and flexibility

Human and financial factors
- Set up and adapt constantly the organization
- Stimulate innovative and agile approaches
- Spread financial culture
- Organize change management and federate different kind of actors towards a common goal, at the same timetable

Innovative equipment and scalability of IT system
- Build a modern industrial policy
- Make cybersecurity a priority
- Promote open source solutions to assure interoperability
- Target highest level of services and robustness of IT infrastructures
- Robustness and reliability of G3 PLC solution

Supply chain and roll out management
- Ensure the scalability of the production lines
- Implement a multi-sourcing approach to avoid components out of stock
- Train the operators and carry out quality checks
- Secure supply chain through datamining methods
- Benchmark with the best practices (eg. car industry)

Stakeholders adhesion and mainstream acceptance
- Organize upstream consultations to ensure subscriptions
- Reassure people about data protection and privacy issues
- Deal with various stakeholders (consumers, elected representatives, suppliers, …)
- Develop a communication strategy based on proves to contain opponents
- Ensure that employees are all ambassadors of the project

Smart metering roll out, an industrial challenge
Thank you for your attention!

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