La transition énergétique, l’affaire de tous
GISTEMP Anomaly (including seasonal cycle)

Seasonal cycle from MERRA2. Figure: NASA GISS/Gavin Schmidt
COP21: Ambitious cuts in greenhouse gas emissions => Necessarily implies (virtually) stopping burning fossil fuels.
Average daily energy consumption per person: 125 kwh

Electrical consumption in Belgium: 80 TWh

Energy consumption in Belgium: 600 TWh
69 AP1000 nuclear reactors
30220 Enercon-126 wind
3424 km$^2$ of PV panels
Hundreds of millions of Tesla batteries would be needed in a Belgium powered by PV.
Storage, smart management of the system and investments in cables and lines: required for **integrating** significant amount of renewable energy into distribution networks.

**Microgrids** are also a key part of the solution.
Saudi oil production rises to record level in July
Country usually pumps more crude oil during summer to meet seasonal power increase
The Utility Death Spiral Scenario Is Realistic

May 27, 2015 3:47 PM ET | Includes: EIX, PCG, PEG, PNM, SO

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Summary

Will Solar Cause A 'Death Spiral' For Utilities?

By Jean-Marc Ollagnier, Accenture

Solar panels are sprouting up fast and getting cheaper everyday. Soon some of the homes and businesses that own or lease these solar systems could “cut the cord” and unplug entirely from the power grids operated by their regional power utilities. But let’s start by dispelling a myth. What has popularly become known in the industry as the utilities “death spiral” is extremely unlikely to occur. Distributed generation like solar will hurt, but power companies have time to manage the pain.

A scenario whereby a significant majority of customers generate their own electricity and migrate off the grid, or use it only as back-up, is simply uneconomic. This is
Accéder à la vidéo de la conférence:

https://www.youtube.com/watch?v=2SJ14Sj33bl