

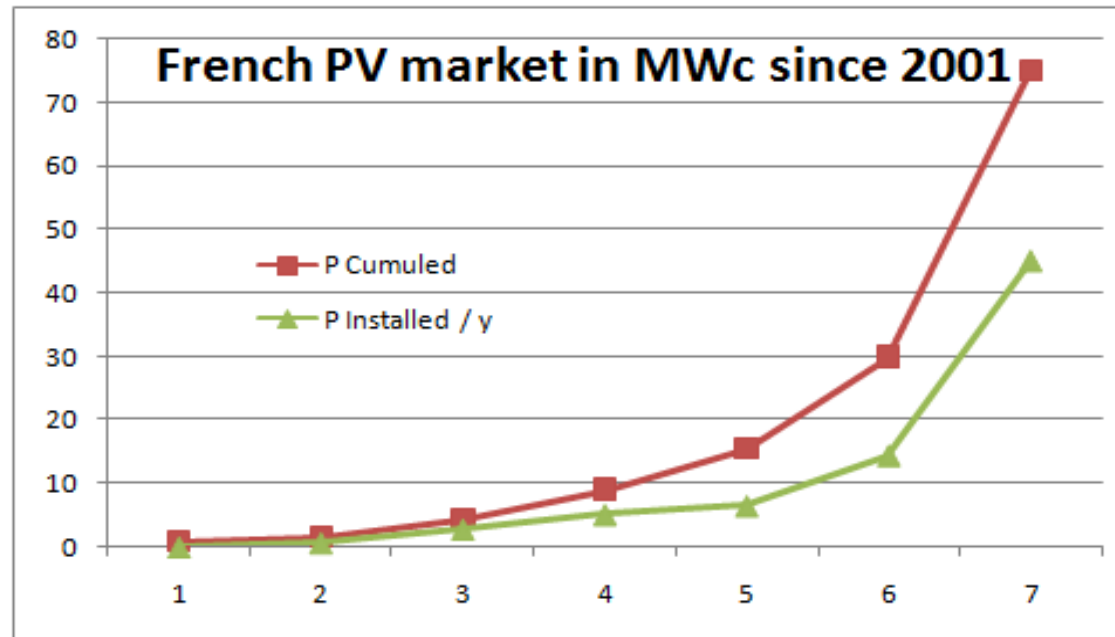
# ***Solar PV development in France***

## ***Main figures and policy***

***By Richard Loyen, General secretary of Enerplan,  
french professional association of solar energy***

## PV french market has started soon

Real start in 2006, with the new attractive feed in.  
45 MWc expected to be saled in 2007



## Official Framework

Feed-in tariffs on 20 years, with for 2008 in France continental : **31,19c€/kWh** in base, more **26 c€/kWh** in bonus for BIPV to **57,19c€/kWh**

In Corsica and oversea, **41,19 c€/kWh** in base, and bonus of **16 c€/kWh** for BIPV to **57,19c€/kWh**

**Tax reduction of 50 %** on the investment (limit of 16 k€), for individual on their principal house

France looks a paradis for PV developpers, but ...

## Official Framework

The feed-in law has big limitations, inside the official targets for PV :

- **160 MWc** cumuled installed in **2010**
- **490 MWc** cumuled installed in **2015**

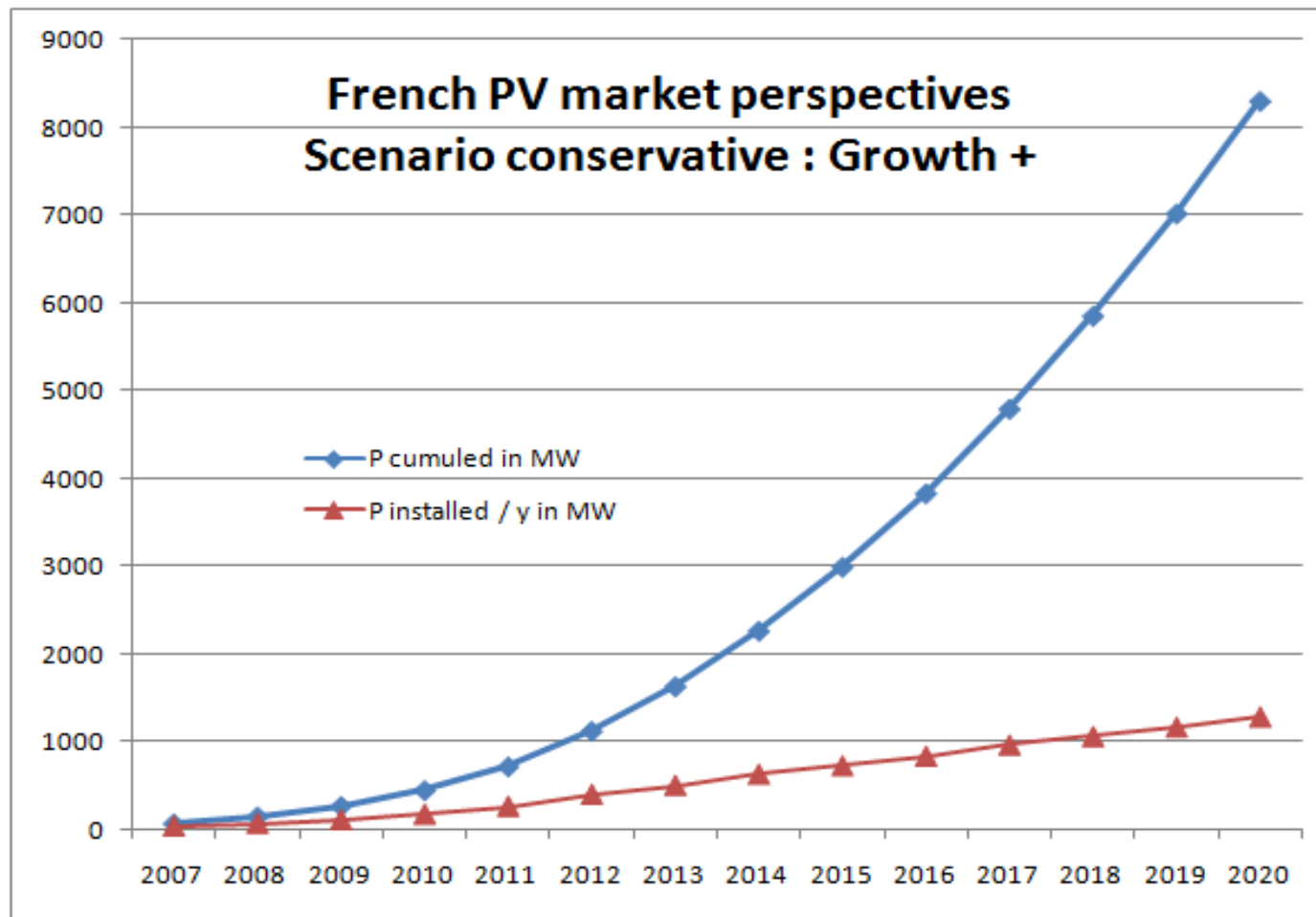
This *official* road map, means to be not a « sexy growth » road map for PV, but ... discussions in the frame of 20 % 2020 has been opened

## Professionnal road map : a pragmatic proposal

- ⑩ Market of **0,5 GW/y** in **2013**, with **1,6 GW** installed in **2013**
- ⑩ Market of **1 GW/y** in **2018/19** with **7 to 8 GW** installed in **2020**

We need to change the scale of the french market.  
French PV strategy, is actually mainly linked with  
building strategy.

## Professionnal road map :



## **BIPV in France : market should rise quickly and strongly,**

- ⑩ **The future thermal regulation 2010, (-20 % on the reference RT 05).** The new requirements concerning reduction of energy consumption would lead to a greater use of PV
- ⑩ **The future thermal regulation 2012 : 50 kWh/m<sup>2</sup> of housing for new building,** would put PV as a standard of the art for the new building sector, for positive building
- ⑩ **The thermal regulation for existing building (attended in 2008/09),** would also lead to a greater use of PV equipments in the existing and refurbishing

## **BIPV in France :**

**With the introduction of PV for building integration :**

- Problem for insurance about “BIPV” product : 10 years guarantee for building technology**
- Need technical evaluation of the product & instructions to install it : cost time and money but necessary**
- Great attention to aesthetical aspects, durability, ...**

## **PV in France, not only for building**

**In over-sea dpt and in Corsica, but also in the south of France continental, solar parks and ground systems will be developed**

## Market tendencies for 2008/09 :

- ⑩ Lead by private (< 3kW) BIPV systems
- ⑩ Large BIPV systems for tertiary building
- ⑩ Ground systems in over-sea and south of France
- ⑩ 60 % of the global french PV market in metropole, 40 % in over-sea dpts
- ⑩ Regions are also important, some of them made annual call for projects (BIPV and PV).

## *Quality scheme for installers : QualiPV*

- ⑩ Qualit'EnR is an association created in 2006 by Enerplan, SER, and 3 handcraft unions, to replace Ademe to manage Qualisol.
- ⑩ In the frame of Qualit'EnR, handcraft unions and manufacturers association work closely for the development of the quality in installation (solar thermal, wood fuel, PV)
- ⑩ In November 2007 : QualiPV was be launched, based on the Qualisol success experience (more than 12500 Qualisol compagnies registred)

## ***Quality scheme for installers : QualiPV***

- ⑩ Voluntary engagement on QualiPV for 3 years with annualy request (millésime)
- ⑩ Choice to be QualiPV-E for Electricity services and/or QualiPV-B for building services (roofers)
- ⑩ A Previous experience or a specific solar PV training to become QualiPV (E and/or B)
- ⑩ 3 days training for QualiPV-E and 1 day training for QualiPV-B
- ⑩ Assurance for solar installation activities (E and/or B) requested at the registration, and controlled y/y

## *Quality scheme for installers : QualiPV*

- ⑩ Audit scheme : 1 time or more, in 3 years
- ⑩ Annual fees to be QualiPV : 106 € in 2008
- ⑩ Services (technical hot line) and tools for communication are free of charge for members
  - ⑩ The power of a network well recognized
  - ⑩ More on [www.qualipv.org](http://www.qualipv.org)

**... Enerplan work to enlarge the solar  
business in France**

**in agreement with sustainable development  
and the european collaboration**

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