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Self-consumption and Netmetering schemes in Europe

International PV Associations Meeting



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- Netting of PV production in excess and additional electricity demand **OVER A** LONG PERIOD (month/year)
- (Meter is turning backwards)
- Simple billing/calculation arrangement
- Incentive = savings



source: EPIA.





Residential « Prosumer »: Consumption vs Production **(OEPIA**



Overview of net-metering and selfconsumption schemes in Europe







- Residential household
- Yearly consumption : 3,500 kWh
- PV yearly production : 3,300 kWh per year.
- 30% of production instantaneously self-consumed



One Year Electricity Flows Balance (kWh)

Netherlands - case study (2012)



Residential electricity price breakdown



NOTES

- 1. Source: EPIA, Holland Solar, CREG, dena.
- 2. Electricity Prices: EU Energy Portal (http://www.energy.eu/) November 2011

EPIA

Germany: Self-consumption premium (2011-2)





NOTES

1. Source: BSW, dena, EPIA.

2. Electricity Prices: EU Energy Portal (http://www.energy.eu/) - November 2011

Profitability with self-consumption & net-metering vs conventional electricity



€cts/kWh



Self-consumption vs net-metering – different points of views





Electricity Market/producers

Self-consumption vs net-metering – different points of views





Electricity Market /producers

Conclusions



These schemes are alternative enablers to market development where there is consumption:

- Net-metering: to kick-off / restart a market
- Self-consumption: as transition with reduced /post FiT

Risks (opportunities) exist with certain actors:

- **Governments:** reduced incomes (taxes) / reduced support scheme costs
- Grid Operators: reduced incomes (grid fees) / reduced burden on grid (self-co)
- **Electricity producers**: reduced incomes (reduced volumes)

Going forward



- IEA-PVPS Task 1
- Questionnaire to non European markets
- Workshop in EU PVSEC, Frankfurt

"Assigning a fair price to photovoltaic electricity"

- Day: Thursday, 27th September, 2012
- Time: 8:30 12:00
- Site: To be decided
- Access: Open to all registered participants of the 27th EU PVSEC



European Photovoltaic Industry Association

www.epia.org

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