



# Self-consumption in France and in Germany: definition and applications

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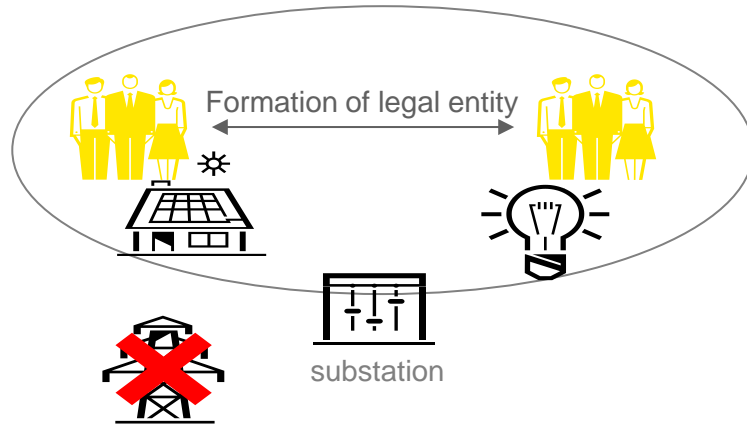
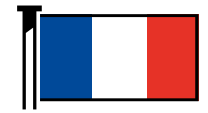
June 21st, 2018

# Keynote

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- ▶ Attempt to compare two very different support schemes
  - ▶ „*Autoconsommation collective*“
  - ▶ „*Mieterstrom*“
- ▶ Very different legal framework and support schemes due to characteristics of the domestic electricity markets
  - ▶ 1,5 million self-consumption installations (individual and collective) in Germany at end 2017 vs 20.000 in France\*
- ▶ Approach
  - ▶ Overview on support schemes in France and in Germany
  - ▶ Comparison: Legal requirements
  - ▶ Comparison: Commercial incentives / support scheme
  - ▶ Comparison: Business and legal relationships
  - ▶ Overview on main similarities and differences
  - ▶ Conclusion and Outlook

\*source: CRE

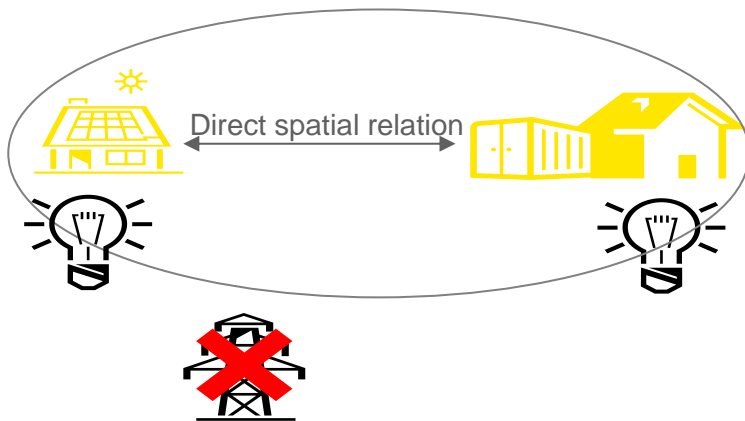


## As of May 2018:

- ▶ **1 project in operation**
- ▶ **2 projects likely to start in the next 3 months**
- ▶ **40 projects in preparation**

Source: DGEC

- ▶ Main characteristics
  - ▶ Regime established by the self-consumption ordinance (July 2016)
  - ▶ One or more energy producers
  - ▶ One or more energy consumers
  - ▶ Producers and consumers must form a legal entity
  - ▶ Connection points behind the same MV/LV substation
  - ▶ A contract must be established between the DSO and the legal entity to identify the participants and determine how the electricity generated is shared (pro rata by default)
  - ▶ Subsequent definition of new grid regimes to allow indirect connection of consumers: closed distribution network (December 2016) and internal building network (December 2017)



## As of April 2018:

- ▶ **108 PV installations for *Mieterstrom* have been registered**
- ▶ **Capacity installed: 2.838,775 kW**

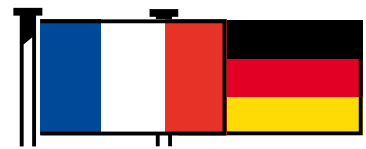
Source: BNetzA

- ▶ Main characteristics
  - ▶ PV installation < 100 kW
  - ▶ Production on, at or in a housing building (at least 40 % of use)
  - ▶ Electricity consumed within the same building or in buildings with direct spatial relation to the building
  - ▶ Delivery of electricity within microgrid (use of public grid not allowed)
  - ▶ Electricity price limited to 90 % of the tariff of the local base supplier
  - ▶ Mandatory provisions for the *Mieterstrom* supply agreement (duration, termination, ...)
  - ▶ Package of *Mieterstrom* supply agreement and lease agreement not allowed

# Comparison Legal requirements



	<i>Autoconsommation collective</i>	<i>Mieterstrom</i>
Source of energy	All RES technologies, no explicit capacity limitation	Only PV, max. total output 100 kWp
Geographical restriction	MV/LV substation	Consumption only in buildings with direct spatial relation to the building on which PV installation is installed
Contract partners	Consumers, producers, storage installation (if any)	<i>Mieterstrom</i> supplier
Producer	Not specified	Owner of the building or third person
Consumer	Not specified	Tenants/occupants
Surplus production	Not eligible for support	Eligible for support (market premium)
Additional supply	Consumer is responsible	To be provided by the supplier of <i>Mieterstrom</i>
Metering	Each participant is equipped with a smart meter	Metering instruments as prescribed by German Metering Act



## ***Autoconsommation collective***

### ▶ **Direct support**

- ▶ Collective self-consumption installations may benefit from the feed-in-premium (FIP) support scheme applicable to individual installations (100-500 kW) provided that producers and associated consumers are located on the same site

### ▶ **Indirect support**

- ▶ Collective installations are not eligible to exemptions from public charges (CSPE) and local energy taxes (TCFE) for self-consumed electricity applicable to individual installations

### ▶ **Adaptation of network tariffs**

- ▶ The regulator (CRE) will apply from August 1<sup>st</sup> an optional network tariff distinguishing local and network flows, expected to reduce the draw-off component\* by 13% for collective installations

\*TURPE/composante de soutirage

## ***Mieterstrom***

### ▶ **Direct Support**

- ▶ *Mieterstrom* premium: incentive of feed-in PV installations minus deduction of 8,5 ct/KWh

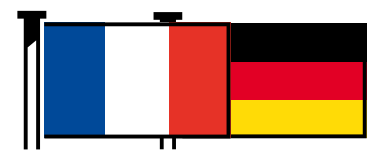
### ▶ **Indirect Support**

- ▶ grid charges including surcharges do not incur, but full EEG-surcharge is owed
- ▶ exemption from electricity tax for small installations applies (only for *Mieterstrom*, not for fed-in electricity)

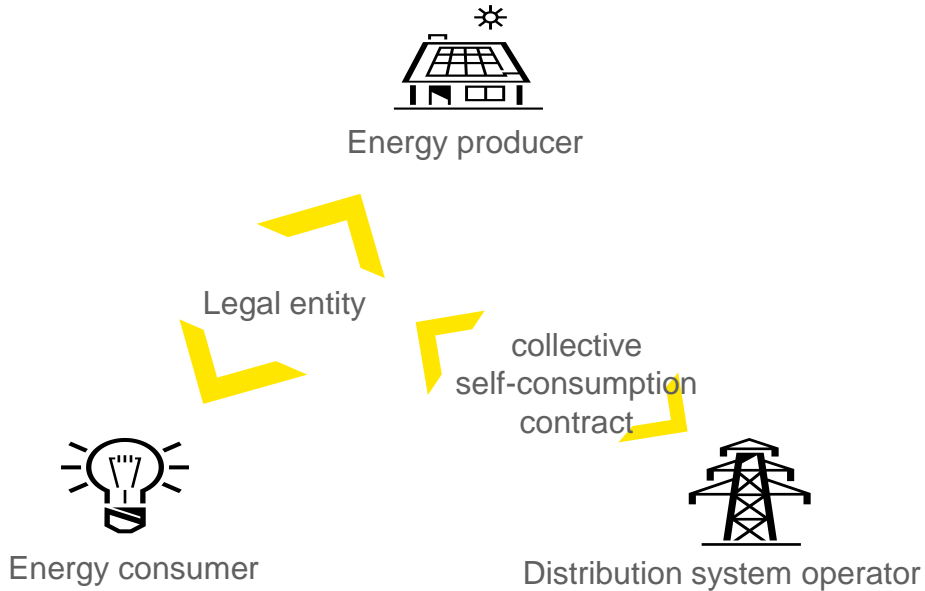
### ▶ **Cap**

- ▶ *Mieterstrom* premium will be capped on a yearly basis, if PV installations exceed 500 MWp/year

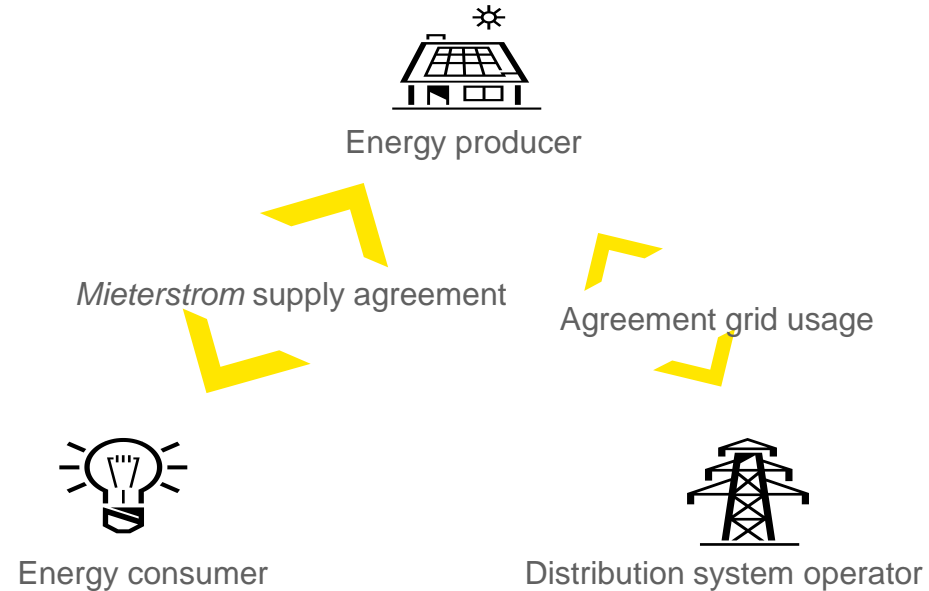
# Comparison Business & contractual relationships



## Autoconsommation collective



## Mieterstrom





## Similarities

- ▶ Limited perimeter of collective self-consumption (not up to the district)
- ▶ No use of public grid allowed for *Mieterstrom* and *autoconsommation collective*, only delivery within microgrids
- ▶ Support schemes (to a various extent)

## Differences

- ▶ Focus on collective housing in Germany vs office and public buildings in France
- ▶ Role and tasks of DSO
  - ▶ Key function for *autoconsommation collective*
  - ▶ Usual functions within *Mieterstrom*
- ▶ Establishment of an entity required for *autoconsommation collective*
- ▶ Various degrees of flexibility regarding the supply agreements (e.g. price limit in Germany)



# Conclusion & Outlook



## Conclusion

- ▶ Both support schemes create first statutory incentives for prosumers
- ▶ High administrative effort in both systems
- ▶ Both systems are in an early market stage
- ▶ Neither system is yet fully stabilized:
  - ▶ Support schemes: in France, solar working group established by Ministry may lead to a support scheme for collective self-consumption in the form of a dedicated auction (Final measures to be released on June 19th)
  - ▶ Perimeter of self-consumption: in France, some stakeholders want to broaden the scope to an entire district. This is strongly opposed by the regulator (CRE)
- ▶ Local energy communities are under discussion as part of the Clean Energy Package

## Outlook

- ▶ *autoconsommation collective* and *Mieterstrom* in the smart energy world
  - ▶ Impact of blockchain technology
  - ▶ Physical microgrid optimization (Software, Big Data)
  - ▶ Visualisation of production and consumption
  - ▶ Integration to smart homes and smart (micro)grids
  - ▶ Combination with storage devices and e-mobility charging stations

# Contacts

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