The Power of Energy Communities in Poland
MORE THAN ENERGY MOVEMENT

- **2015**
  RES Act amendment - FIT for prosumers

- **2016**
  Net metering system („hobby”)

- **150** institutional partners

- Advocacy
  public campaign
  publications
  conferences
  workshops
  media
2019 - Year of Prosumers!

- Rapid growth – almost 200% !!!

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
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<tbody>
<tr>
<td>Microinstallations:</td>
<td>54 000</td>
<td>154 000</td>
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<tr>
<td>Power:</td>
<td>343 MW</td>
<td>1 GW</td>
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- Total PV capacity in Poland: **1,7 GW**
  *(75% → Prosumers)*
2019 - Year of Prosumers & why?

new governmental instruments + coal-generated electricity prices surge

- Tax deduction (2019)
- Direct subsidy for individuals (Sep. 2020)
  5 000 PLN = app. €1200
- EU funds subsidies (some regions)
- Net metering allowed for SME (<50 kW)
ENERGY MIX in Poland

- Coal 77% / RES 11%

- RES in 2020
  EU goal (PL): 15%
  PL government prediction: 13.8%

- RES goals for 2030
  EU: 32%
  PL: 21-23% (with additional EU support)
Installed power [MW]

- 2005
  - PV: 0
  - Wind: 80

- Biogas
- Biomass
- Sun
- Water

- Installed power [MW]
  - 2005: 3834 MW
  - 2006: 4582 MW
  - 2007: 5807 MW
  - 2008: 5849 MW
  - 2009: 5864 MW
  - 2010: 5881 MW

- Yearly power generation:
  - 2014: 21 MW
  - 2015: 71 MW
  - 2016: 99 MW
  - 2017: 104 MW
  - 2018: 147 MW
  - 2019: 239 MW

- Power sources:
  - Biogas
  - Biomass
  - Sun
  - Water

- Chart details:
  - Y-axis: MW
  - Chart legend:
    - Biogas, Biomass, Sun, Water
    - Color codes:
      - Biogas: Green
      - Biomass: Cyan
      - Sun: Yellow
      - Water: Blue
Energy cooperatives

- **2019** - new legislation on energy co-operatives

  **Energy cooperatives like prosumers**

  - Net-metering with ratio **1:0,6**
  - Max capacity **10MW**
  - Only rural areas - urban districts excluded
  - Max. **3** neighbouring communes
  - Max. **1000** members
  - Installations must cover **>70%** of total EC needs

- Number of Energy Cooperatives in Poland: **100**
Growing interest in joint energy projects

- EU funds supported (majority)
- Cities, communes, schools, hospitals
- Housing cooperatives powering common spaces: lifts, corridors, lighting, pumps etc.

- Pilot support program for housing cooperatives (2020?)
  - Loans + remission
  - <50 kW, one region only
RED II Directive project of transposition expected in June 2020

- Energy cooperatives in cities
- Accounting ratio for micro RES – 1:1
- Virtual Prosumers / neighbourly sharing
- Higher limit for SME (<500 kW)
- Onshore wind power liberalization
- Hybrid model: PV + wind + biogas
- Support for energy communities: MFF + national subsidy schemes
Energy cooperatives
– not only legislation

- **Cultural aspects**
  – how to make EC attractive?
- **Bad associations** from communist times especially on rural areas
- Growing **young generation** (esp. cities) ready and enthusiastic for EC
- The best motivation is a good example: **your neighbour**

- **WANTED:**
  - good practices from the other countries
  - pioneer Polish cases to be replicated
Thank you!

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