

ENERGY TRANSITION POLICY NIEDERANVEN

29 | 10 | 26

WELCOME

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ENERGY TRANSITION POLICY OF THE COMMUNE OF NIEDERANVEN

Goals:

- Climate neutrality in household energy consumption by 2030
- Climate-neutral Commune administration by 2040
- Climate neutrality across the entire communal territory by 2050.



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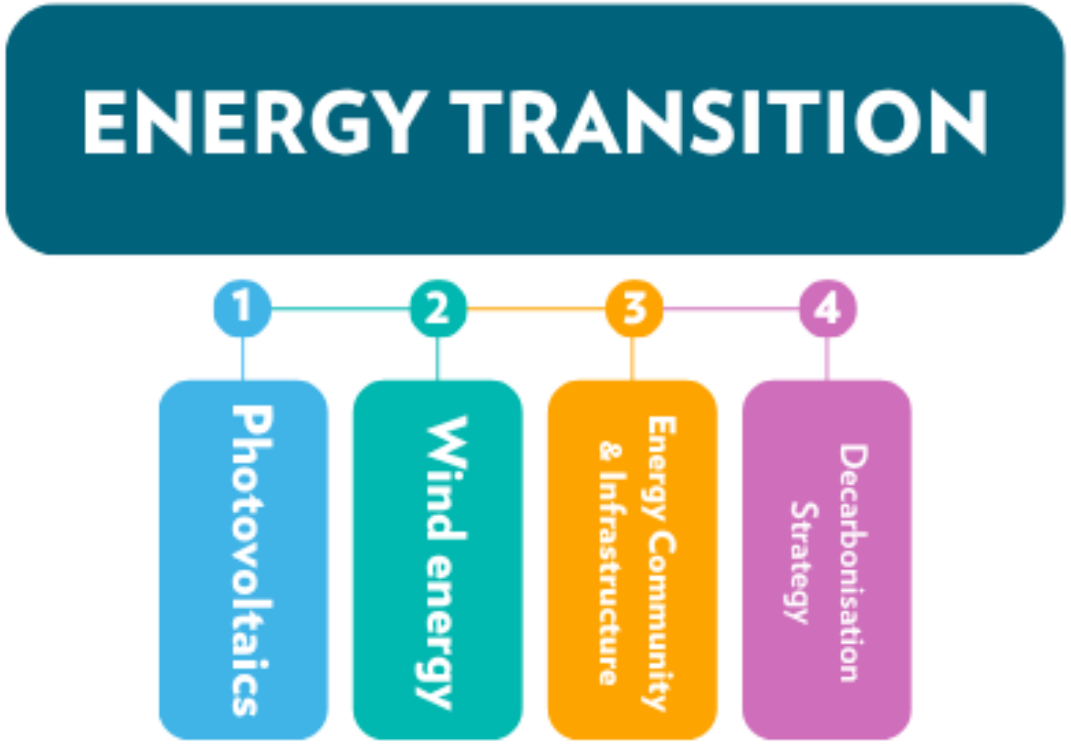
„Moving our Commune forward together“



- regular resident assemblies,
- resident teams (climate & nature),
- a Commission for Environment,
- a dedicated Commission for Energy Transition,
- an annual *climate forum* (the first edition took place on 6 June 2026)

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THE 4 PILLARS OF OUR ENERGY TRANSITION POLICY

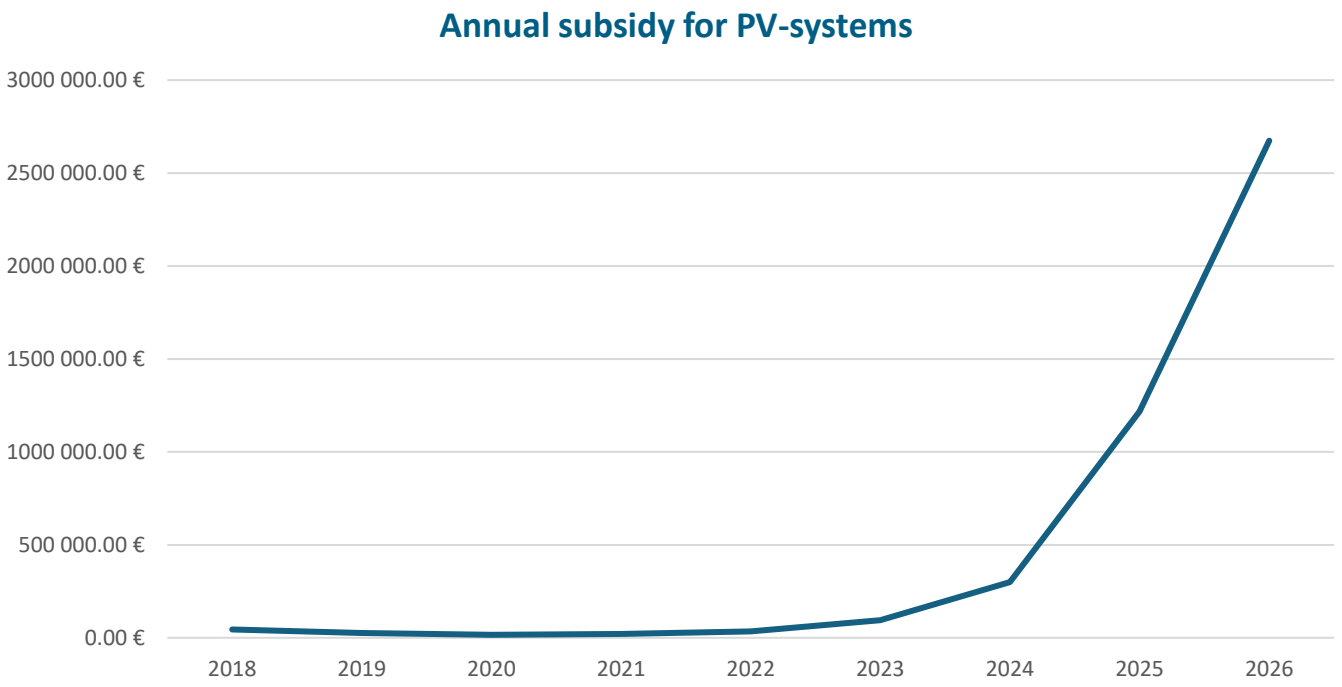


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1 Photovoltaics

- Mandatory photovoltaic (PV) systems for new buildings
- Simplification of administrative procedures
- Communal subsidies (50% of the state subsidy)
- Since 2023: €4.3 million
- Consistent communication



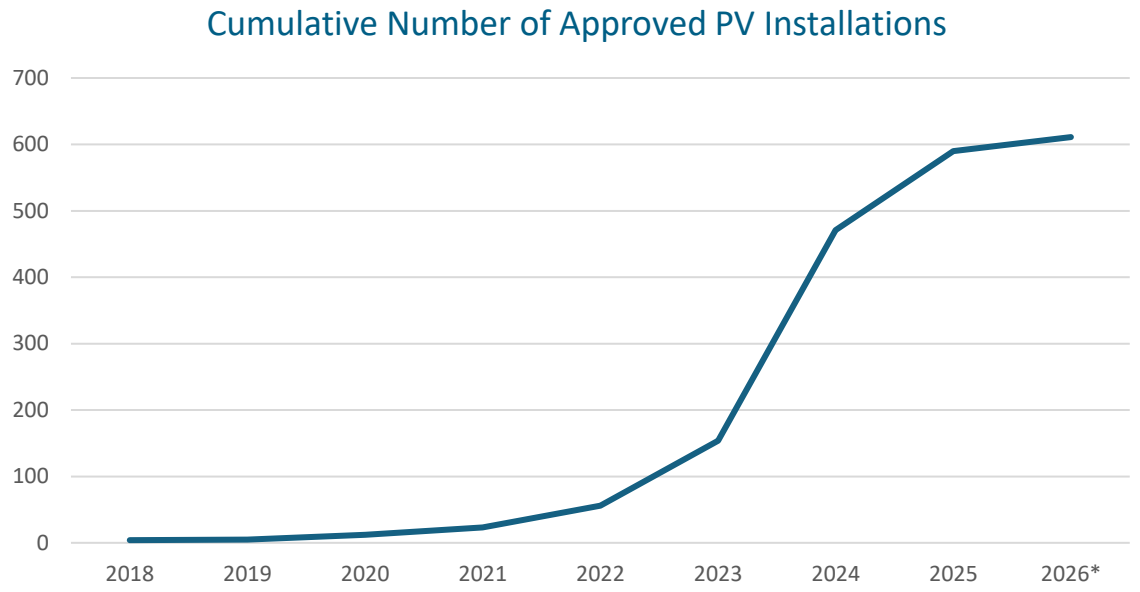


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1 Photovoltaics

Key facts:

- Since 2023: 555 installations ''authorised''



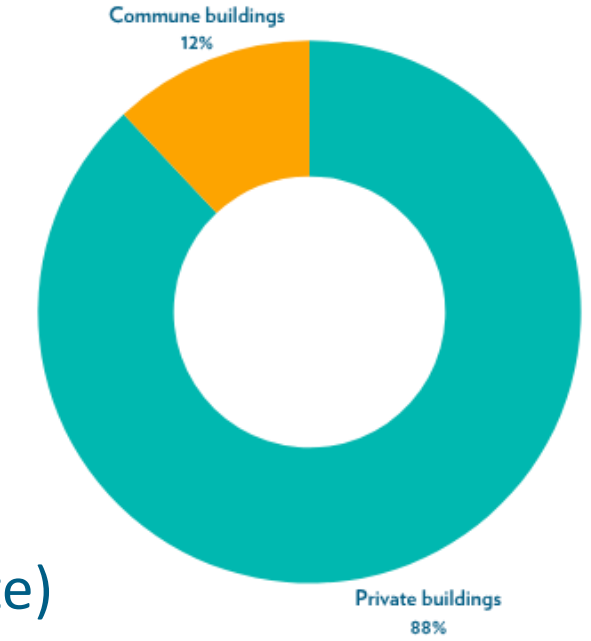
Solar Challenge 2026: ranked no. 1 in the following categories:

1. Expansion of solar installations < 30 kWp
   - 375 installations
   - 18,9% of residential buildings

2. Increase in installed photovoltaic capacity < 200 kWp
   - 5,184.62 kWp

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1 Photovoltaics



- Construction of large-scale commune PV-projects
  - 240 kWp on the *Residence Gréngewald* care home (together with Enercoop Syrdall)
  - 220 kWp on the Syrdall Schwemm (intermunicipal syndicate)
  - 140 kWp on the Commune building
  - 520 kWp of PV-carports in front of the Maison Relais (Solarpark Niederanven – 50% Commune, 50% Enovos)
- Total installed capacity on Commune buildings: 1,400 kWp

- Installed capacity across the Commune territory: 11,500 kWp
- Annual production: 9,8 million kWh
  - (Electricity consumption across the Commune territory: 30.6 million kWh)

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2 Wind Energy

(Complementary to Photovoltaic Energy)



- Energiepark Nidderaanwen SA
  - 50% Commune of Niederanven
  - 50% SOLER
- Analysis of 4 potential sites
- Extensive public consultation process
- Commodo licensing procedure currently underway for WEA3
- Capacity per turbine: 4,2 MW
  - Annual production: 8,9 Mio. kWh
- WEA1 & WEA2: currently under discussion due to the authorization requirements of the Civil Aviation Directorate (visual flight operations)

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3 Energy Community & Infrastructure

Current Situation

- Municipal buildings and most municipal PV installations are part of an energy community
- Electricity is shared and optimized
- The municipality encourages households to join energy communities.

Benefits of an Energy Community

- Affordable local electricity
- Access to renewable energy for vulnerable households
- Fair remuneration for energy producers
- Greater energy independence

Next Steps

The Commission for Energy Transition plans awareness-raising activities to inform and encourage citizens to participate in Energy Communities.

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3 Energy Community & Infrastructure

Investment in **modern energy infrastructure**

- Phase 1: New transformer substation including the integration of large-scale energy storage capacity
- Phase 2+3: Further expansion stages

Assessment of existing storage capacities:

- E-mobility (vehicle batteries can be up to 10 times larger than home battery storage systems)
- Bidirectional charging infrastructure

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4 Decarbonisation Strategy

1. Buildings and Energy Consumption
2. Electrification of Heating
3. Digitalisation and Smart Energy
4. Electrification of Mobility



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4 Decarbonisation Strategy

1. **Buildings and Energy Consumption**
   - Strong communal subsidies for energy-efficient renovations
   - Continuous awareness-raising on energy efficiency
     - Including the “Zesumme renovéieren” campaign, through which 1,400 residential buildings were contacted

2. **Electrification of Heating**
   - Progressive electrification of the heating sector
   - Expansion of heat pumps as the standard technology
   - Assessment of low-temperature and district-based heating solutions

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4 Decarbonisation Strategy

3. Digitalisation and Smart Energy

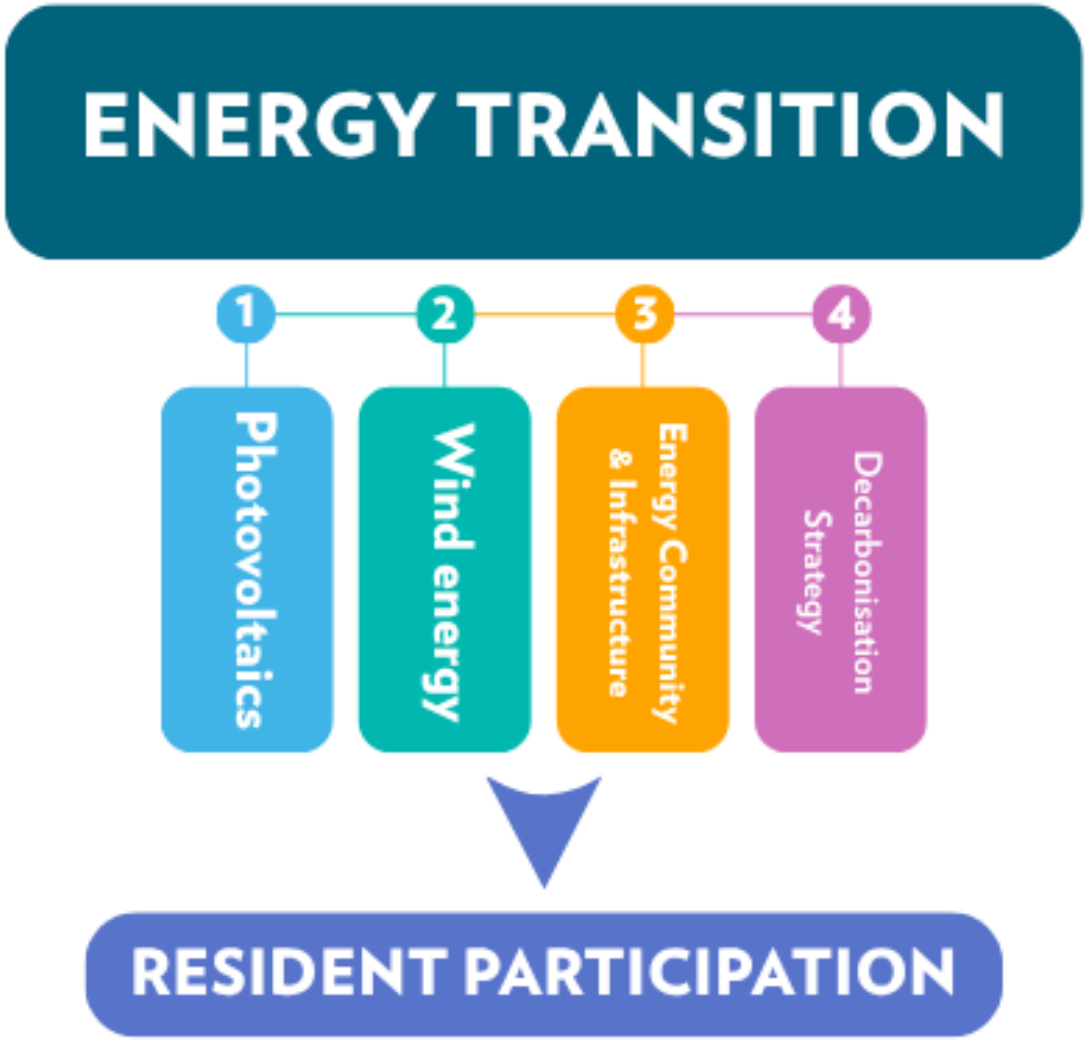
- Intelligent energy management for municipal buildings
- Transparency regarding energy consumption and production
- Smart lighting and LED systems
- Digital platforms for energy and resource sharing

4. Electrification of Mobility

- Progressive electrification of the Commune vehicle fleet (100% electric by 2040)
- Expansion of sustainable mobility options
- Support for private charging infrastructure
- Continuous expansion of public charging infrastructure

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