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PRESS RELEASE

THE ENERGY TRANSITION POLICY OF THE COMMUNE OF NIEDERANVEN

"BRINGING THE COMMUNE OF NIEDERANVEN FORWARD TOGETHER!"

The Commune of Niederanven is pursuing an ambitious and integrated energy transition and climate strategy. Through the large-scale expansion of renewable energy, the promotion of energy communities, investments in resilient energy infrastructure, and the decarbonisation of energy consumption, the goal is to achieve climate neutrality in the private residential sector by 2030, within the Commune administration by 2040, and across the entire Commune territory by 2050.

The energy transition is understood as a shared societal responsibility, requiring close cooperation between residents, businesses, administrative structures, and political stakeholders. This approach reflects the guiding principle of our Commune: "Bringing the Commune of Niederanven forward together".

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A shared energy transition

The Commune of Niederanven is pursuing an integrated and long-term transformation strategy focused on a significant increase in renewable energy production and the creation of a resilient, participatory energy system.

The objective is to achieve climate neutrality in private household energy consumption by 2030, within the Commune administration by 2040, and across the entire territory of the Commune by 2050.

At the heart of this strategy lies the guiding principle: "Bringing the Commune of Niederanven forward together". The energy transition is understood as a shared societal responsibility, with residents, businesses, administrative structures, and political stakeholders actively working together.

This participatory approach is put into practice through:

- regular meetings with residents,
- resident teams (climate & nature),
- the Commission for Environment,
- a dedicated Commission of Energy Transition,
- and an annual "Klimaforum", which celebrated its first edition this year on 6 June.

Our energy transition policy in the Commune of Niederanven

Our energy transition policy is based on four pillars:

1. Photovoltaics as the main pillar

The Commune is consistently relying on photovoltaics as the central driver of the energy transition.

This strategy is based on:

- a photovoltaic obligation for new buildings,
- a strong communal subsidy of an additional 50% on top of the national subsidy,
- consistent administrative simplification (no building permit required),
- and an active information and awareness-raising policy.

This approach has led to exceptionally rapid growth in installed solar capacity over the past three years and has positioned Niederanven among the leading communes in Luxembourg.

The Commune itself has also launched significant investments:

- at the Commune building,
- at the Gréngewald residence in cooperation with Enercoop Syrdall,
- at the Syrdall Schwemm as part of the intercommunal syndicate,
- as well as through the larger carport project in front of the Maison Relais in cooperation with Enovos.

Currently, 11,500 kWp of installed capacity are in operation across the territory of the Commune of Niederanven, corresponding to a production of around 9.8 million kWh per year.

2. Wind energy as a complementary pillar

Alongside photovoltaics, the Commune is specifically developing wind energy as an important complementary source of renewable energy.

As part of a partnership with Soler:

- four potential sites were analysed,
- a broad public consultation process was organised,
- and one site was selected, which is currently undergoing the Commodo procedure.

Wind energy should therefore not be seen as an alternative, but rather as a necessary complement to photovoltaics. It mainly produces energy when solar production is lower — at night and during the darker winter months — thereby contributing to a stable and resilient renewable energy supply.

3. Energy communities and energy infrastructure for greater resilience

A key innovation is the introduction of energy communities that directly connect local producers and consumers.

To simplify this model, the non-profit organisation "Mir deelen" is being created to:

- manage the administrative and technical implementation,
- simplify participation for residents,
- reduce barriers to local energy sharing,
- and provide vulnerable households with access to renewable energy.

The objective is to create a system with:

- fair remuneration for producers,
- affordable locally produced electricity for consumers,
- and increased energy independence for the Commune.

The official launch is planned for later this year.

Modern energy infrastructure

To enable this large-scale transformation, the Commune is also investing in the modernisation of the electricity grid:

- a first expansion phase in the "Am Sand" centre, including a new transformer and the integration of larger storage capacities,
- as well as two additional expansion phases within the same central area of the Commune.

Alongside stationary battery storage systems, the Commune is also analysing the possibility of intelligently integrating the existing battery storage capacities of electric vehicles into the energy system. On average, electric vehicles have a storage capacity ten times greater than that of conventional household batteries.

An important component of this strategy is the development of a bidirectional charging infrastructure.
The objective is to prepare the grid for a high share of renewable energy while at the same time ensuring a stable and resilient energy supply.

4. Decarbonisation of energy consumption

Alongside energy production, the Commune is pursuing a comprehensive decarbonisation strategy built on four interconnected dimensions.

Buildings and energy efficiency

- large-scale insulation and renovation initiatives,
- attractive communal subsidies,
- structural reduction of energy consumption in the residential sector,
- systematic awareness-raising on energy efficiency.

In this context, the campaign "Zesumme renovéieren" was carried out in 2025, during which more than 1,400 residential buildings received personalised energy profiles.

Electrification of heating

- progressive electrification of the heating sector,
- expansion of heat pumps as the standard technology,
- analysis of low-temperature and district-based heating solutions.

Digitalisation and smart energy

- intelligent energy management for communal buildings,
- greater transparency regarding energy consumption and production,
- smart lighting and LED systems,
- digital platforms for energy and resource sharing.

Electrification of transport

The Commune is pursuing a progressive electrification of transport:

Communal fleet

- 100% electrification of the communal fleet by 2040,
- analysis of the use of battery storage capacities of future school buses to store local photovoltaic surplus production.

Sustainable mobility

- further development of the cycling network,
- improved connections to public transport services (Citybus and on-demand bus services),
- regular assessment of shared mobility solutions (Vél'OH! and Flex).

Support for private electric mobility

- a 50% subsidy for private charging infrastructure,
- an additional 50% top-up subsidy when combining a charging station with a photovoltaic installation.

At the same time, the network of public charging stations is being continuously expanded.

Results achieved so far

The strategy of the Commune of Niederanven is already delivering concrete and measurable results:

- 11,500 kWp of installed photovoltaic capacity,
- around 9.8 million kWh of solar electricity production per year,
- one of the highest photovoltaic growth rates over the past three years,
- a leading national position in the Solar Challenge in two categories,
- winner of the Eurosolar Solar Prize 2025: "Cities, Municipalities and Public Services",
- successful renewal of the Gold certification level in the Climate Pact 2026,
- broad societal acceptance of the energy transition.

Today, the Commune is widely regarded as one of the most progressive actors in the communal sector in the field of renewable energy. This success is based on proximity, trust, administrative simplification, and consistent communication with residents and businesses.

In addition, every major communal investment project is systematically subjected to a climate check.

A shared future

The energy transition and climate strategy of the Commune of Niederanven is more than a technical project. It is an integrated transformation strategy that brings together technology, society, and governance.
It paves the way towards a future in which energy is produced locally, intelligently stored and shared, energy consumption is consistently reduced, and climate neutrality is achieved collectively.
The energy transition in Niederanven is a shared societal project built on solidarity, innovation, and responsibility. Through this strategy, the Commune is laying the foundations for a climate-neutral, resilient, and liveable future for the next generations.

"Bringing the Commune of Niederanven forward together" therefore remains not only a motto, but the guiding principle of our entire energy transition and climate policy.

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