



**EnerCmed** 



# KEY FINANCIAL PARAMETERS



#### **Key Financial Parameters**

Unlike traditional investments, renewable energy projects and participation in energy communities can deliver **benefits to multiple stakeholders**. It is essential to distinguish between the direct financial impacts for the investors, which allow them to recover their capital, and the broader benefits for participants and other stakeholders.

### **Direct Impacts for the investors**

#### ❖ Self-Consumption

Self-consumption, where energy is used on-site, reduces reliance on external providers and lowers costs. In energy communities, it can offset operational costs for municipalities, especially when renewable systems are installed in public buildings. However, self-consumption models across Europe may complicate investors' ability to recover their initial investment if it's shared among community members. Maximizing self-consumption is crucial for ensuring stable returns.

#### Energy Sales

Selling surplus energy to the grid or third parties complements self-consumption and enhances financial performance. The success of energy sales depends on factors like grid connectivity, market dynamics, and regulation. In some markets, energy prices fluctuate, but energy storage systems can mitigate price volatility. Price stabilization mechanisms and Power Purchase Agreements (PPAs) can offer steady income, benefiting both investors and energy communities.

#### State Incentives and Tax Benefits

State incentives, including tax benefits and direct subsidies, lower operational costs and contribute to faster payback periods. These incentives are essential not only for shaping investment strategies, but they also encourage energy sharing mechanisms in energy communities. Incentives like "virtual self-consumption" can further optimize energy use, increasing project cash flow. However, reliance on these incentives is risky due to potential policy changes.

The **financial** sustainability of renewable energy projects depends on key financial parameters, such as primary revenue sources like selfconsumption and energy sales, and state incentives





Renewable energy projects, especially those structured as energy communities, offer a range of advantages to participants and other involved parties. These benefits are both economic, environmental and social

## Benefits for participants and other stakeholders

#### Economic Benefits

Energy communities allow participants to consume energy generated locally, saving on energy costs. Surplus energy can be sold, and revenue is shared among members. Effective participation relies on smart energy management tools to optimize energy use and reduce wastage.

#### Environmental Benefits

Participants reduce greenhouse gas emissions by using renewable energy, contributing to climate change mitigation. Local environmental benefits grow when participants adopt additional sustainable technologies, like electric vehicle charging stations or heat pumps, further decreasing reliance on fossil fuels.

#### Social Benefits

Energy communities foster social cohesion, awareness of energy transition issues, and collective action. Participants collaborate to achieve meaningful changes, strengthen social bonds, and develop a sense of belonging. This spirit of collaboration extends to other community-led initiatives, reinforcing resilience and the ability to address broader social and environmental challenges.



