



# Focus Group 'Innovative on-farm energy production systems'

Dublin, Ireland  
12-13 November 2025



# Key findings from the survey

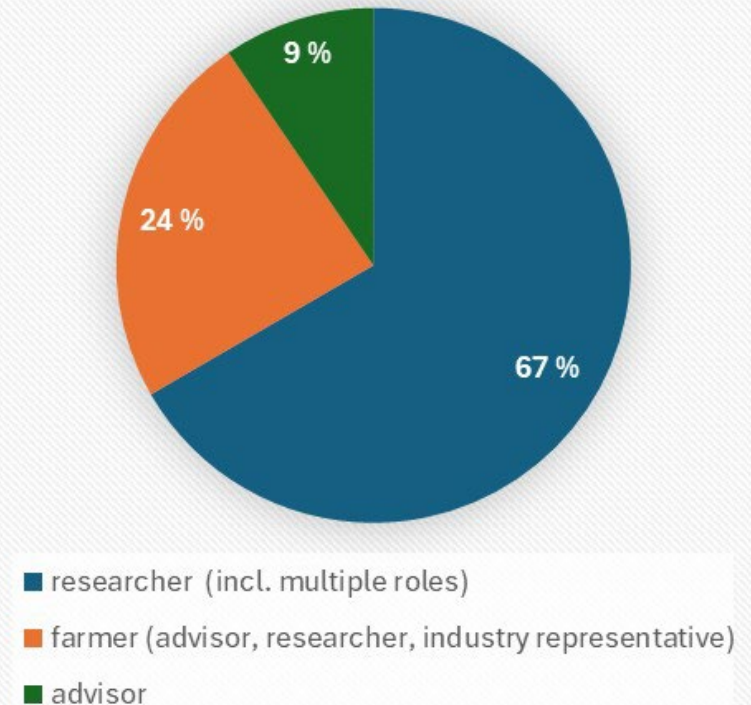
**Suvi KARIRINNE**  
Support Facility for Innovation and Knowledge exchange | EIP-AGRI

# 1. Who are we?

## 1. Welcome: who are we?

- › We are the Focus Group 58 “Innovative on-farm energy production systems”
- › My name is Suvi Karirinne and I’m the coordinating expert of Focus Group
- › Focus Group consists of:
  - › 21 experts
    - › 67% are researchers
    - › 24% are farmers with multiple roles (researcher, advisor, industry representative etc)
    - › 9% are advisors

FG58: representation by roles (%)





## Focus Group 58: geographical dispersion

› Experts from 12 countries





Why we're here?

## 2. Why we're here: task for this focus group

› The set task for FG58 is:

**“How to develop and foster the adoption of context-appropriate, resilient, and farmer-centred on-farm energy systems that enhance sustainability and energy autonomy, while supporting farm viability and environmental goals.”**

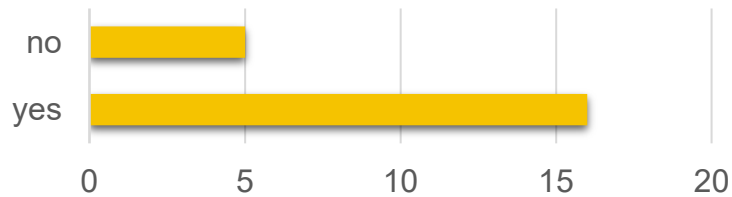




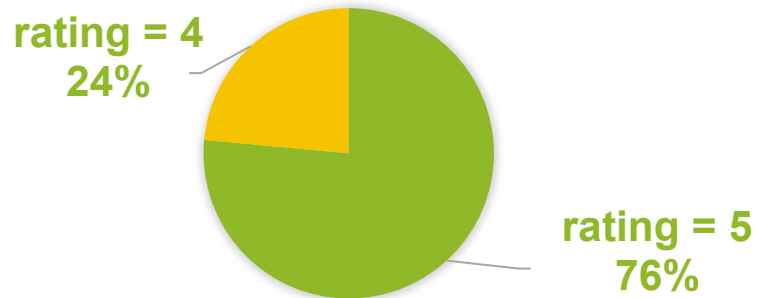
Market and adoption drivers,  
stakeholder barriers and business  
models

### 3. Survey findings, key adoption drivers: economic benefits, environmental gains, improved local services and better use of resources

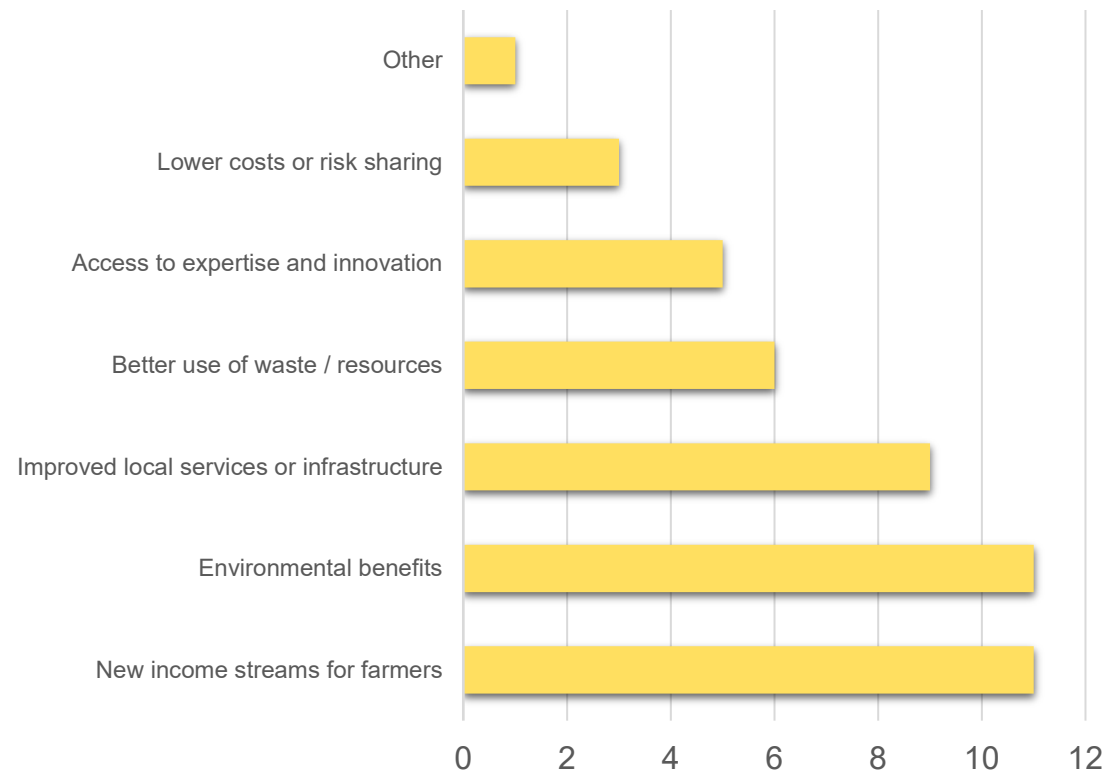
Have you been involved with the cross-sectoral co-operation (counts)



HOW IMPORTANT IS CROSS-SECTOR COLLABORATION?



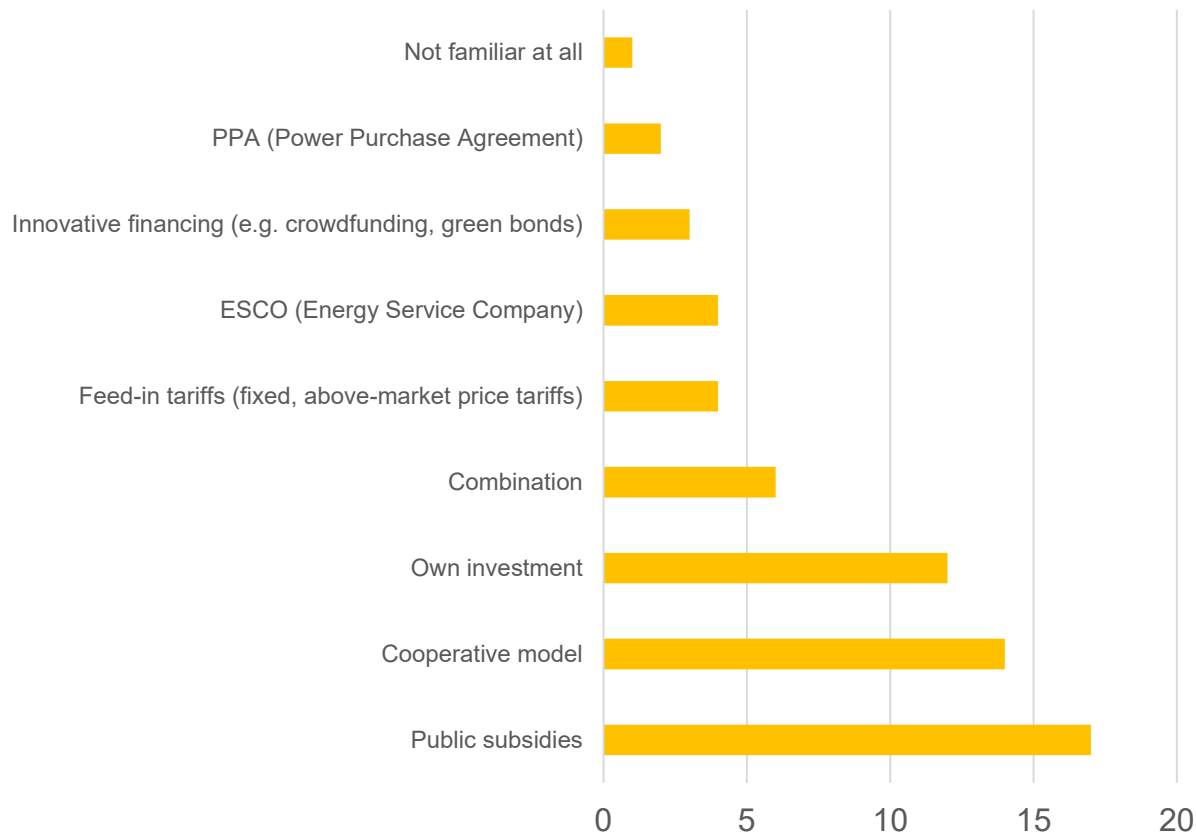
The most relevant benefits of the cross-sectoral co-operation (counts)





### 3. Survey findings, business & governance models: co-operatives for costs, risks and knowledge sharing

Business models used/observed (counts)



**Collective Energy Communities, Key Points:** Farmers and residents jointly invest in renewables, sharing costs, risks, and benefits.

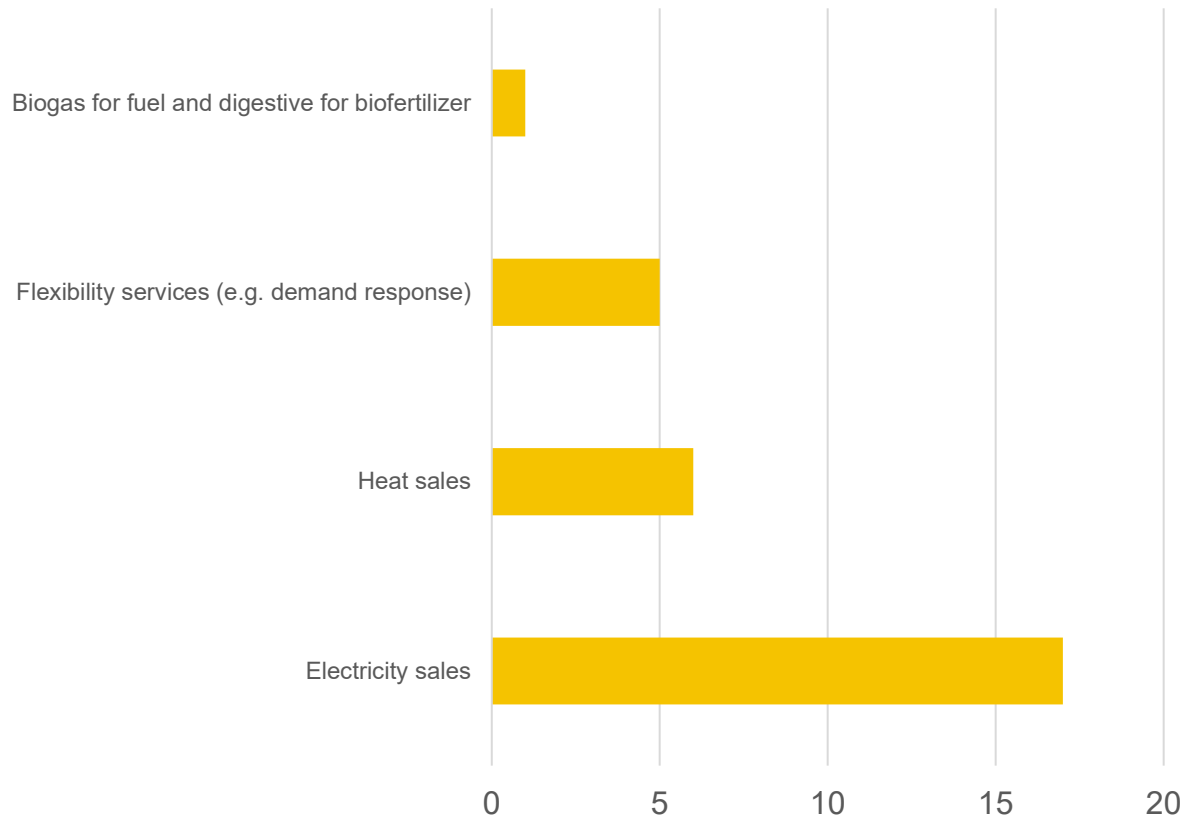
**SwifterwinT (Netherlands):** 96-member cooperative repowered wind turbines (250 MW), uses democratic decision-making, and shares local benefits. Faced high upfront costs and grid challenges, but achieved energy autonomy.

**West Attica (Greece):** Farmers and residents co-own solar PV and agrivoltaics, reducing energy costs and diversifying income. Challenges include grid delays and high initial investment, but the model boosts rural resilience and sustainability.



### 3. Survey findings, revenue streams & incentives: Stable incentives and clear revenue models drive adoption

Most common revenue streams used or considered



yes = respondent has experience about energy communities co-operative ownerships or local microgrids

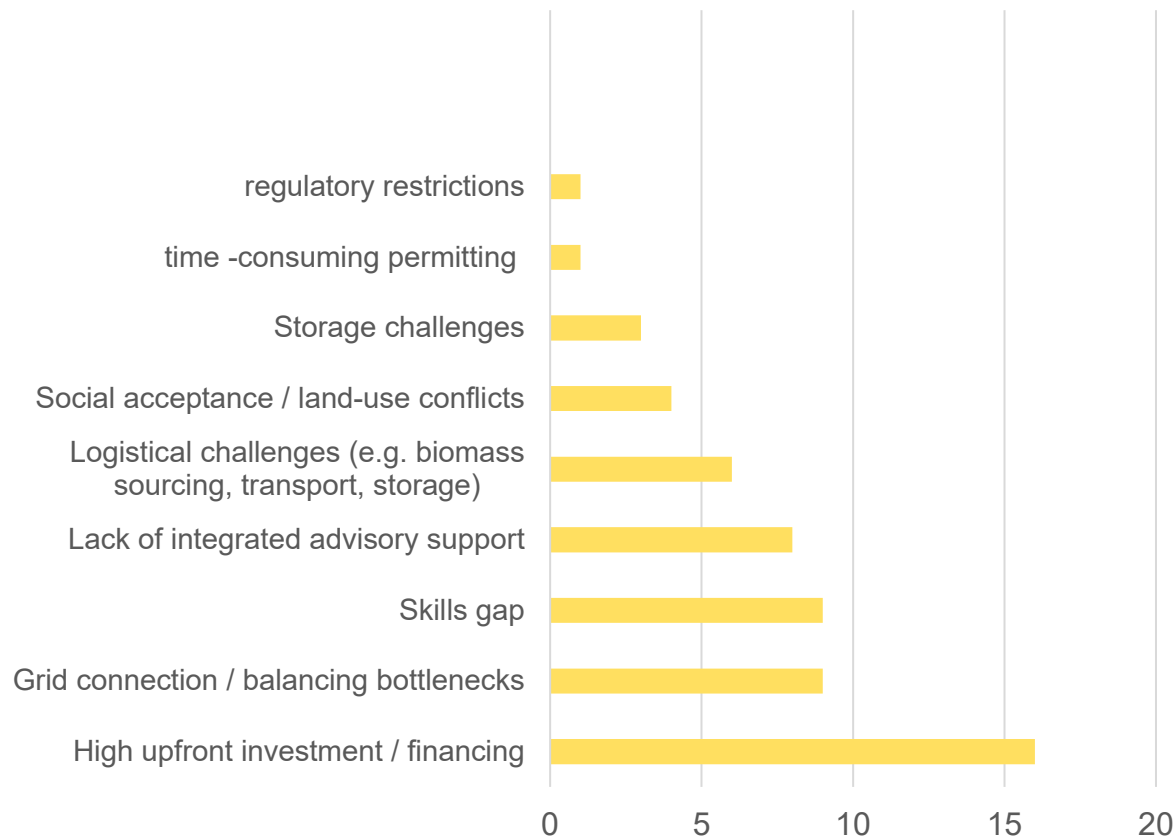
no = respondent has no experience about energy communities co-operative ownerships or local microgrids

Ownership / Business Model	How clear and predictable are risks and returns (1-5, 1= not clear, 5= clear)	
	yes	no
Own investment	3,6	2,6
Cooperative model	3,3	2,8
ESCO	3,6	3,0
PPA	3,7	2,0
Feed-in tariffs	5,0	3,0
Public subsidies	3,6	4,2
Innovative financing	2,3	3,0



### 3. Key survey findings, stakeholder barriers: Willingness to adopt results from alignment of economic logic and risk mitigation

Barriers in the implementation or adoption of good practices  
(count)



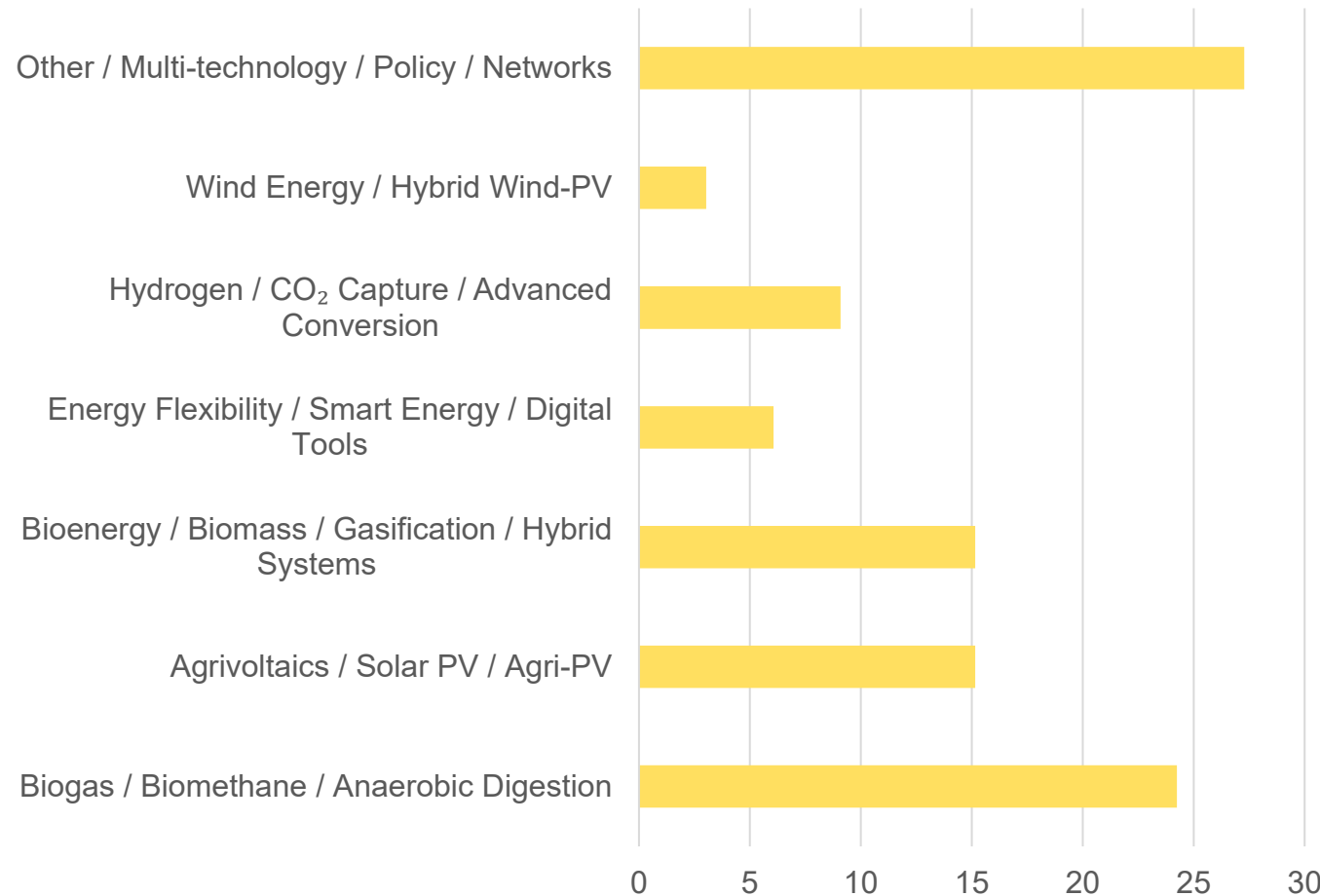
Farmers' willingness to adopt on-farm energy systems:

- Collective models such as co-operatives reduce individual burdens
- Strong revenue cases such as power sales and self-consumption offer tangible returns
- Supportive incentives such as feed-in tariffs or grants remove much of the financial uncertainty



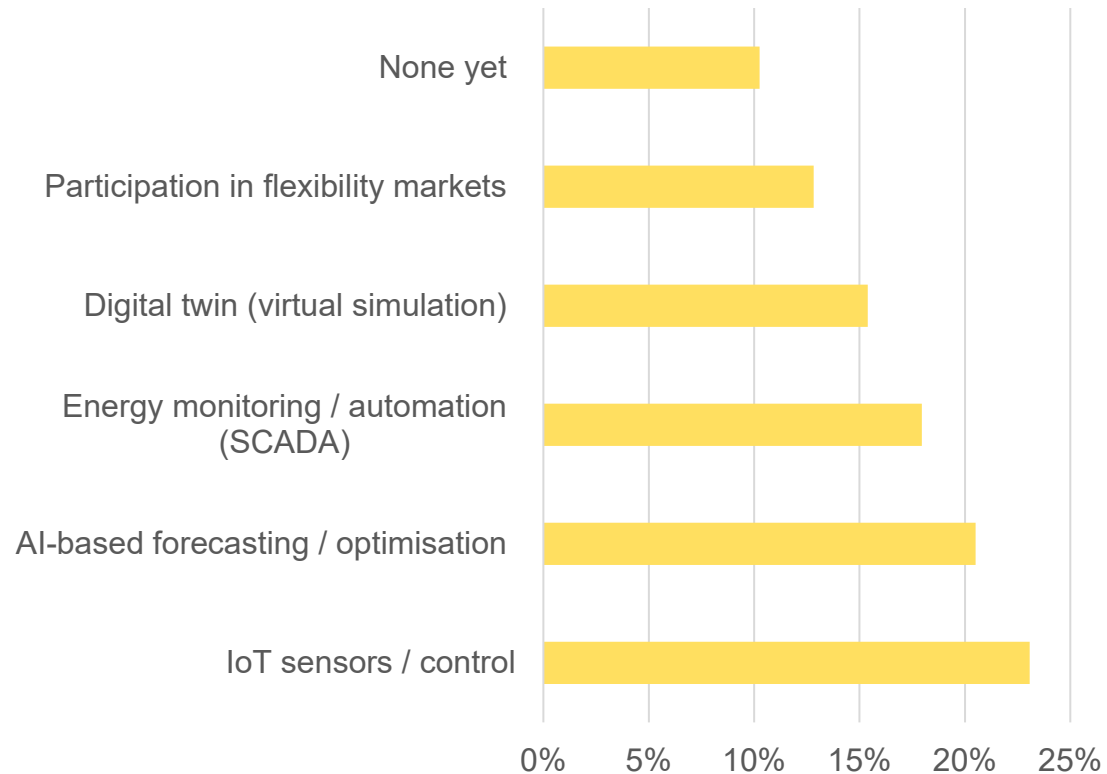
### 3. Key survey findings, technology trends: The future of on-farm energy lies in integration of different energy vectors and business sectors

Technological focus in the projects (%)

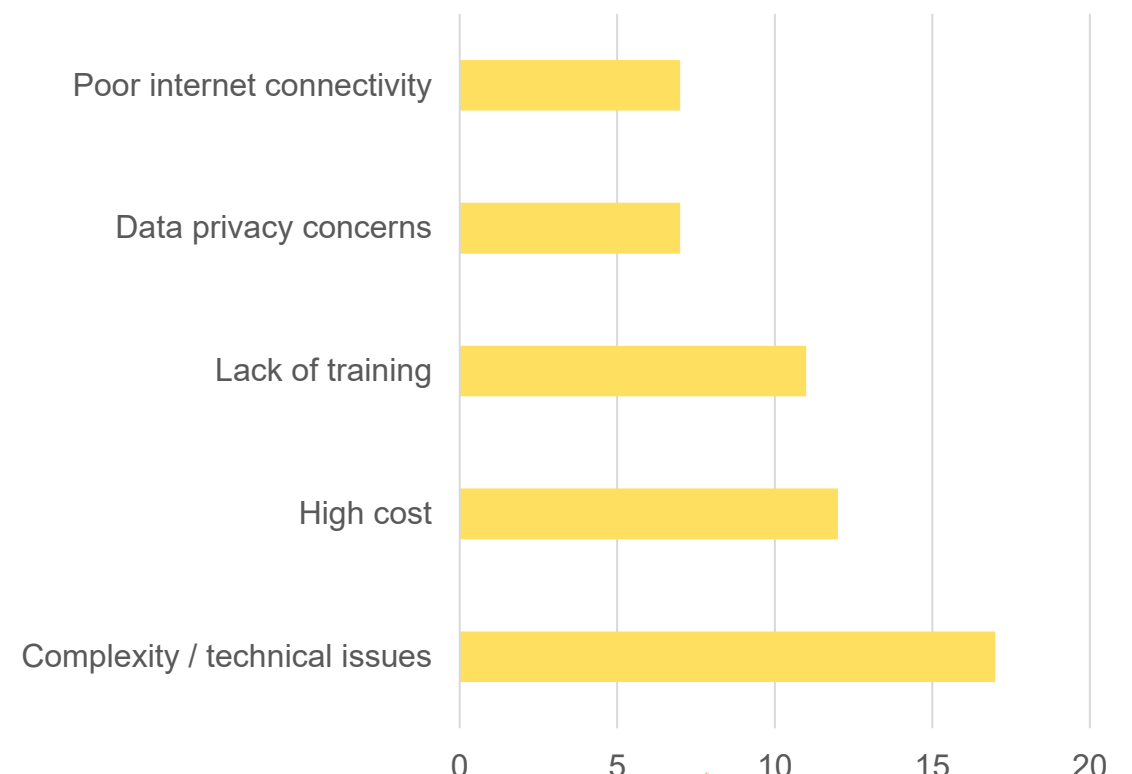


### 3. Key survey findings, technology trends: Digital tools are found valuable, but several barriers are flagged

Digital tools & services used / planned to be used  
% (count=39)



Main barriers for digitalisation or flexibility  
(count)





**Thank you!**

# EU CAP Network Focus Group 'Innovative on-farm energy production systems'

1st meeting | 12-13 November 2025 | **Dublin, Ireland**

All information on the Focus Group is available on the webpage:

<https://eu-cap-network.ec.europa.eu/focus-groups-innovation-knowledge-exchange-and-eip-agri/focus-group-innovative-farm-energy-production-systems>

