

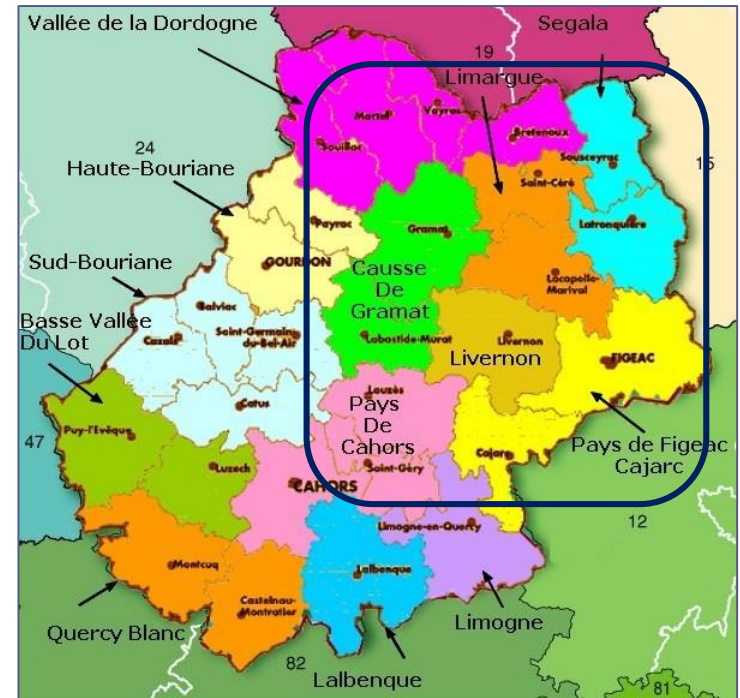
Mutualising sunshine

Economic entanglements in the
Fermes de Figeac's PV project

Béatrice Cointe (CIRED)
Workshop “Local capacities, political energies”
2 March 2015



The *Fermes de Figeac*



Ségala-Limargues, Lot, Midi-Pyrénées

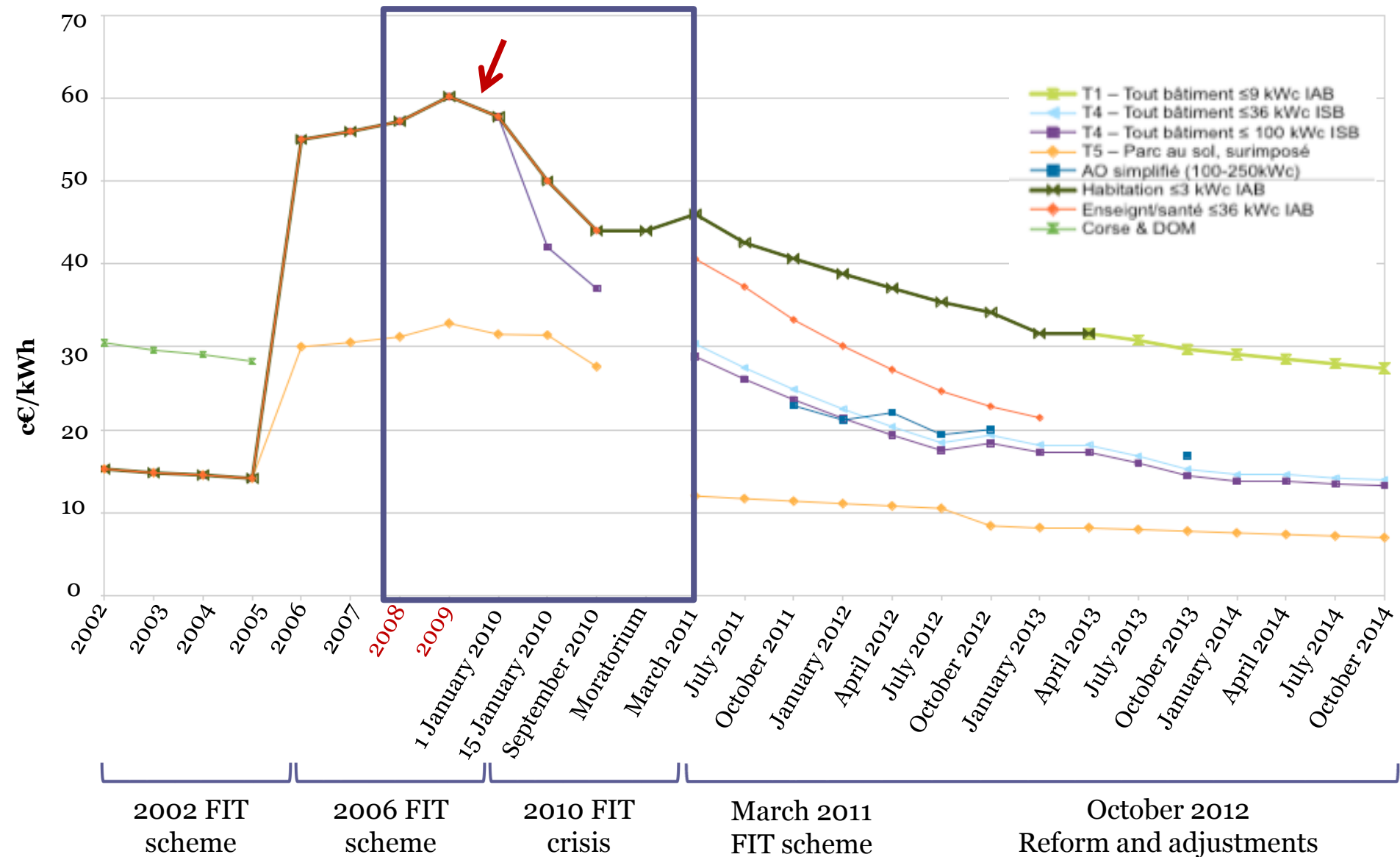
The *Fermes de Figeac*'s project

- Articulated around the high 2008 FITs for PV
- 6.8 MWc of installed PV capacity
- Entirely **mutualised**: resource, costs, administrative work, benefits, operation and maintenance
- The ***territoire*** as “a space of collaboration”
- Considered as an “exemplar” project by public authorities



A project articulated around FITs

Source: photovoltaïque.info



The *Fermes de Figeac*'s project

- Creation of an ad-hoc company, the **SAS SAES**
- Funding by banks
- Three phases
 - 2008-2011: investment, no net benefits
 - 2012-2023: loan repayment, low benefits
 - 2024-2030: high benefits (~ 60 €/m²)
- Mean benefits: 20 €/m² a year for 20 years



Objectives of the project

- Turning sunshine into an asset:
 - Financial profits, investment
 - Tool for territorial development and innovation
- Achieved through the entanglement of FITs and PV into a *territoire* and a tradition of mutualisation

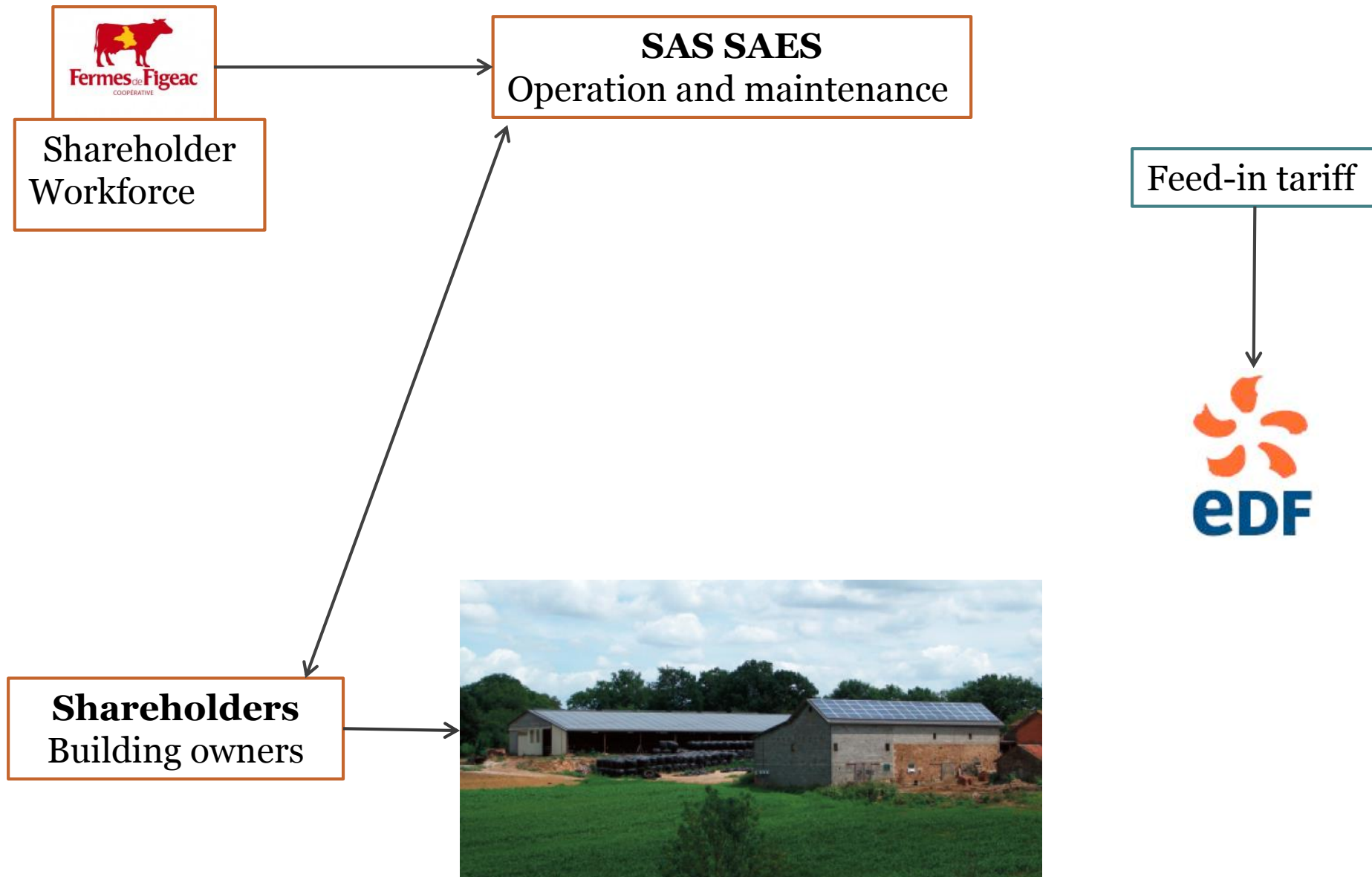


The *Fermes de Figeac*'s project

- What work, entanglements and trials were necessary to turn FITs and sunshine into assets?
 - Constitution of an economic agency
 - Transformation of farm roofs into photovoltaic plants
 - Demonstration of the financial profitability of the project



Constitution of an economic agency



Constitution of an economic agency

- Spring 2008: letters, meetings
- June 2008: interested farmers send declarations of interest with standardised information on available roofs
- July 2008: creation of the SAS *Ségala Agriculture et Energie Solaire*





DECLARATION D'INTENTION

A retourner à la SICASELI
46120 Lacapelle Marival

Avant le 30 juin 2008

Je soussigné, LASCAROLLES VINCENT

demeurant à Mayaimba-Lentac

Téléphone : 05 65 38 76 52

Mobile : 06 87 10 42 02

déclare souhaiter adhérer à la démarche collective initiée par la SICASELI pour l'installation de panneaux photovoltaïques sur les toits des bâtiments décrits ci-dessous dont je suis propriétaire.

Les conditions exactes d'adhésion à cette démarche, dont les principes ont été présentés lors des réunions du 22 et 28 mai dernier à Lacapelle Marival, me seront communiquées ultérieurement une fois validées par le groupe de pilotage représentant l'ensemble des éleveurs. Pour faciliter l'instruction du dossier et le déclenchement des démarches administratives, j'accepte communiquer tout complément d'information sur les bâtiments concernés à l'équipe technique de la SICASELI.

Fait à Mayaimba-Lentac Le 9.10.6.2008

Signature

Critères de pré-sélection des toitures :

- Toiture orientée au Sud $\pm 40^\circ$
- pente $> 20\%$
- Surface minimum autour de 150 m^2
- exposition dégagée (pas d'ombres d'arbres, bâtiment ou colline)

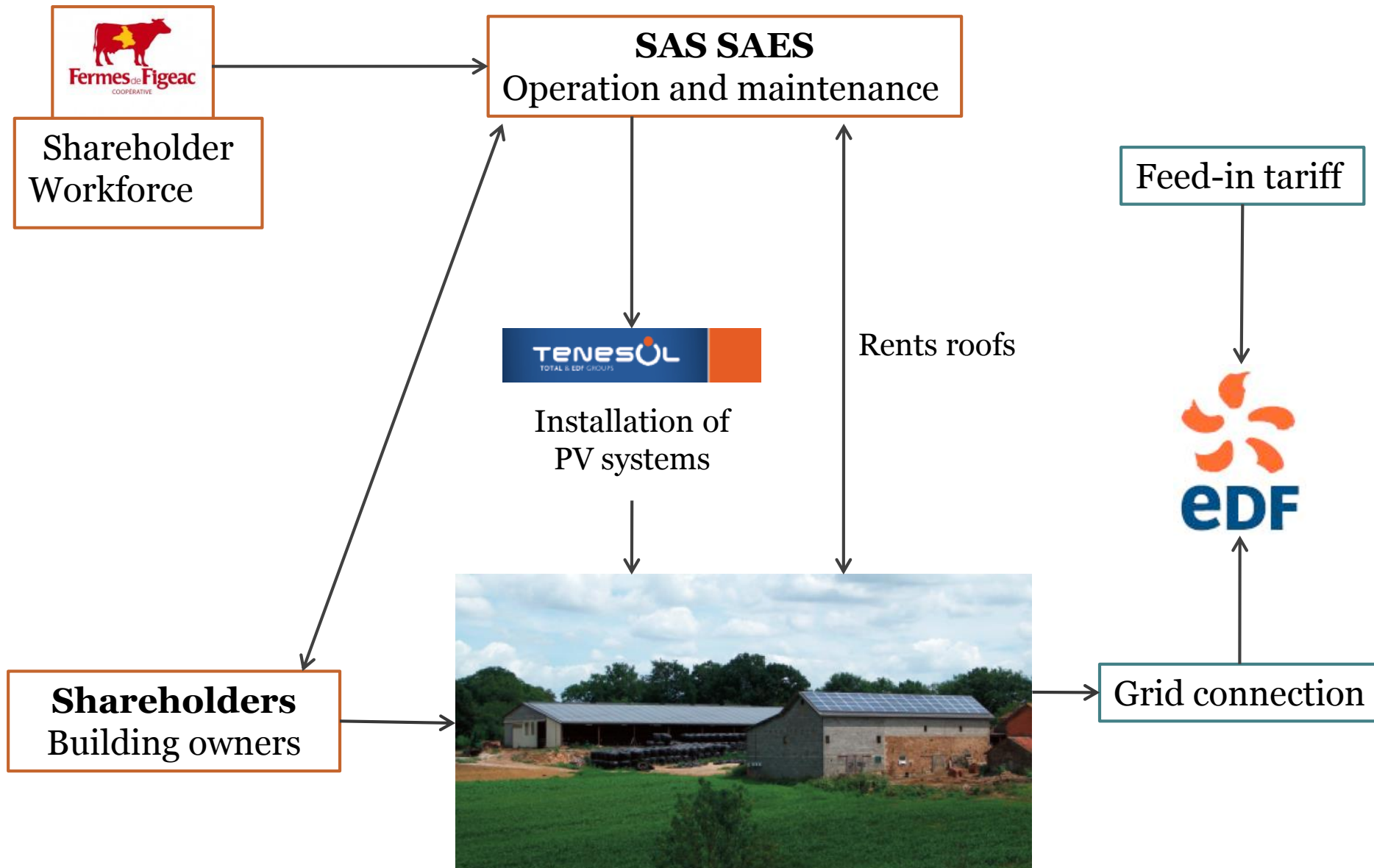
	Affectation (habitation, stabulation, stockage...)	Hauteur du pignon (m)	Largeur (m) horizontale	Longueur (m)	Numéro parcelle cadastrale et commune
Bâtiment 1	Bégerie	3 m	6,5 m	24 m	
Bâtiment 2	STORAGE GRAIN	3,5 m	6,5 m	8 m	
Bâtiment 3	Bégerie STORAGE GRAIN	3 m	6,5 m	68 m	
Bâtiment 4	Bégerie	3 m	6,5 m	50 m	

provision
extension
+ 7 m

Plan de masse : Faire un croquis, au verso, avec une indication du Nord, l'emplacement des bâtiments, la distance entre les bâtiments, la route d'accès et la distance avec le premier poteau EDF

Croquis au dos

Transforming roofs into PV plants

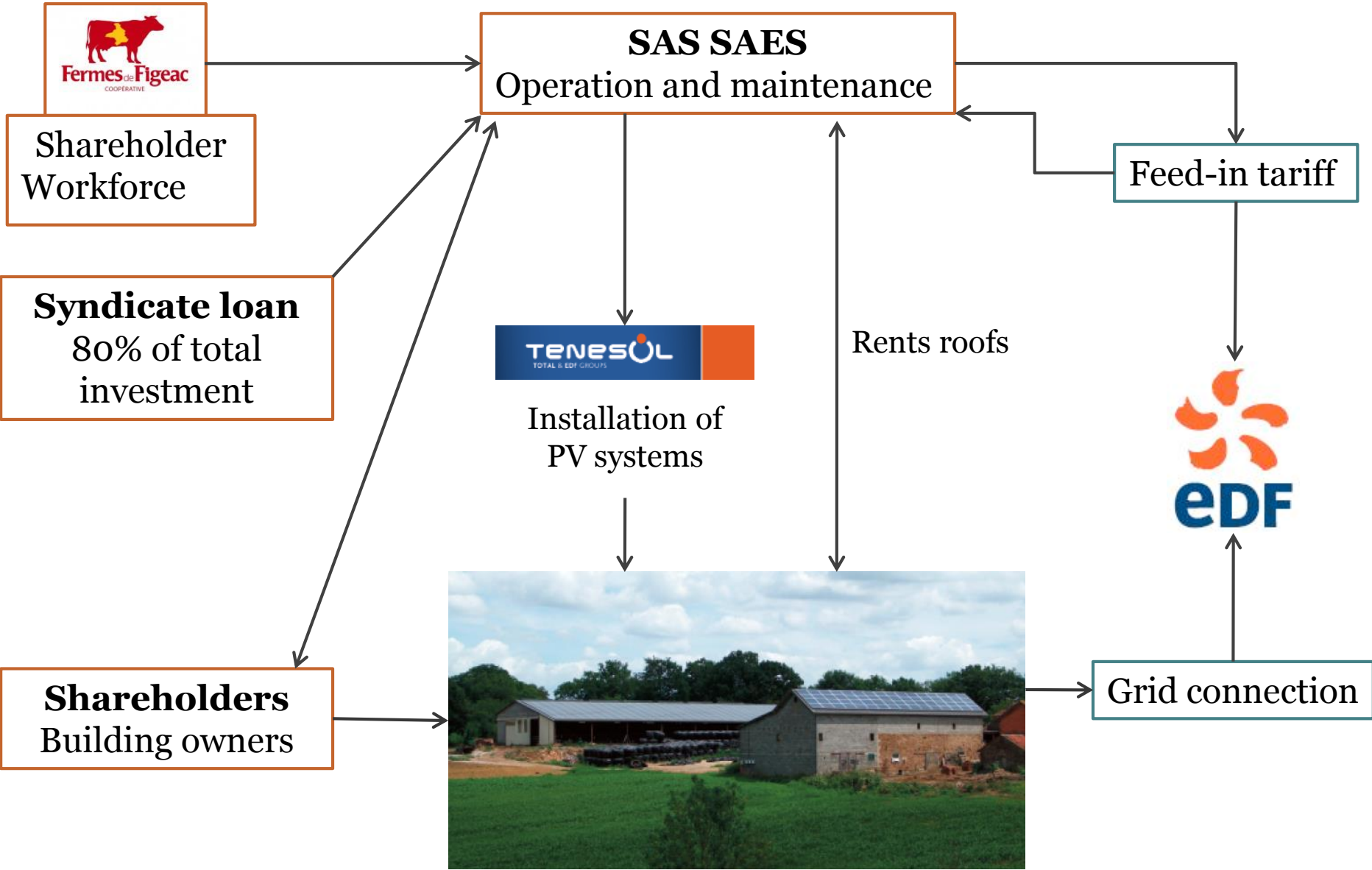


Transforming roofs into PV plants

- Legal and administrative trials
 - 2008: Declaring roofs as PV plants
 - Designing emphyteutic leases
 - Obtaining construction permits
- Material and physical transformations
 - Assessment of potentials and costs of installations
 - 2009-2010: Installation of PV panels
 - 2009-2011: Grid connection



Ensuring financial profitability



Ensuring financial profitability

- 2008-2009: securing purchase agreements and FIT levels
 - *Certificats ouvrant droit à l'obligation d'achat (CODOA)*
 - Purchase agreement request procedure (EDF-AOA)
- 2008-2010: Convincing loaners
 - October 2008: first contact with bankers
 - July 2009: agreement of principle
 - July 2009-June 2010: loan syndication
 - June 2010: signature of the loan convention
- 2011 onwards: Maximising profits
 - Maintenance
 - Mutualisation
 - Territorial solar expertise



Ensuring financial profitability

“... very often, it's the 3-4% extra that make the difference. And these 3-4%, you have to **go for them**. And that is through **proximity, competence and reactivity**. That's one of the **strengths of the collective**: we have the **right perimeter** to offer such maintenance.”

(interview, Laurent Causse)



Beyond financial interests...

- A new source of income and activity
- New competencies for the cooperative
- Further projects...
 - 2012: new objective of the SAES: “production of renewable energy, including photovoltaic power, for commercialisation.”
 - Involvement in community renewable energy networks



Conclusions

- PV resources turned into financial and territorial assets
- Series of trials and transformations : adaptation *to* FITs and adaptation *of* FITs
- Financial profitability guaranteed by FITs *and* by local and collective entanglements
- Mobilization and equipment of a territorial public



Thank you!



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