An evaluation based on Service Economy theory

Evaluation of an EDF supported refurbishment program in rural area

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Content

En Meuse et en Haute-Marne ensemble, économisons l'énergie!

oEDF MDE 52-55 program

oService Economy theory

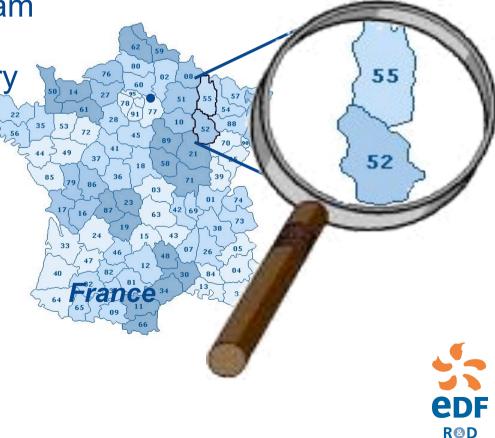
Assessment

Onclusion

oChallenges to face

oBenefits and costs

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MDE 52-55 program

• Context :

• Economic development program in Haute-Marne and Meuse

o 2006-2010

• Who :

• Households, social housing, public services

- Territories
- Craftsmen and local building firms



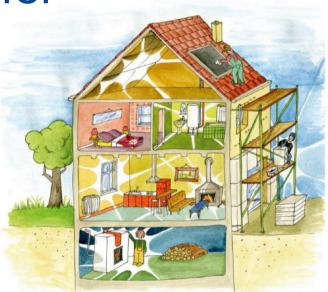
En Meuse et en Haute-Marne

- Goals :
 - To propose efficient home refurbishment solutions with renewable energies
 - To make an example in the field of energy efficiency
 - To create jobs in the studied territories



EDF refurbishment offer

- Attractive loan for customers
- Technical requirements
 - Energy performance level
- Structure of the offer
- ne offer
 - Integrated renovation work encouraged (multi-pack)
 - From "three stars" offer to "five stars" offer
- Support to local industries







 Production and sale of a solution made of a non-splitable integration of products and services

Incorporation of external factors in meeting the functional needs

To annex

- The value creation is not linked any more with the production of objects (user value)
- A high level of interaction with the local economic development (territory)





Why Service Economy is relevant for our project ?

- A performance-based commitment : improving the dwellings comfort and performance
- Another goal : organising and improving the skills of the local industry through specific education so that they can deal with energy-efficiency packs
- Territorial economy and social impacts are key points considered in the program



Comparison of a traditional energy efficiency program and MDE 52-55

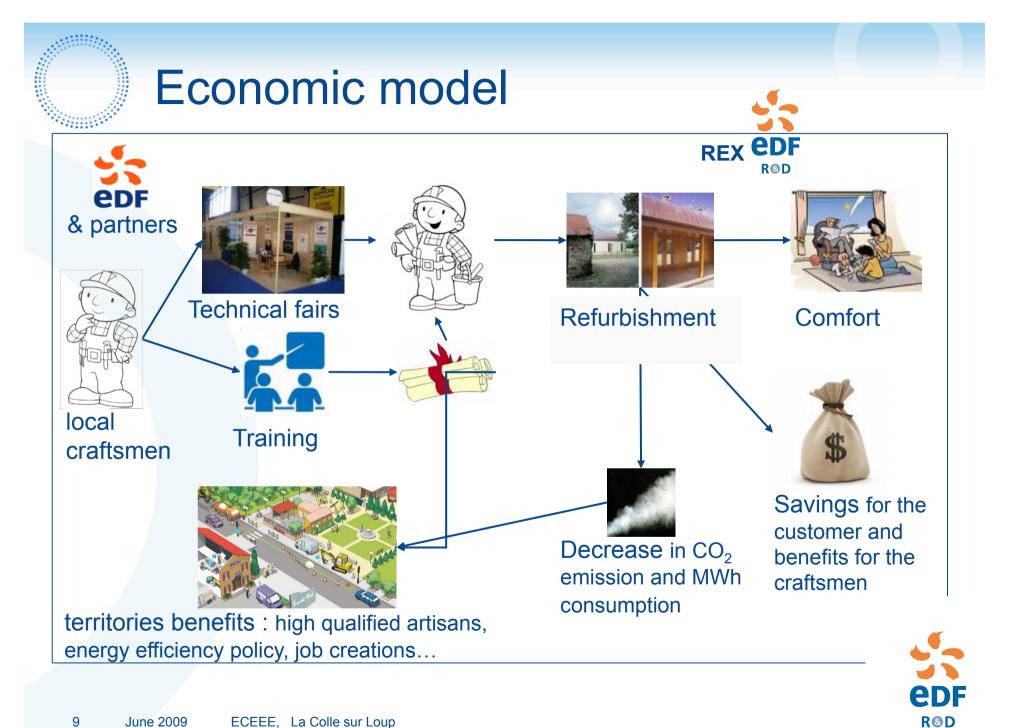
	Traditional programs	Service Efficiency -MDE 52-55 Program
Target customers	Households or social owners	Authorities (territories) of the Departments code 52 and 55
Target recipients	Households or social landlords (or housing associations)	Households, local authorities Installers, social landlords
Offer description	Subsidising or loans for energy efficiency work →getting white	Local economy development through the support of qualified E.E work for :
	certificates : boiler replacement, insulation,	- households
		- local installers
	Single or combined EE operations indistinctly supported	- the region
	Training courses proposed to large nation-wide installers	
Evaluation criteria of the	Obtained white certificates	Regional economic development (employment : direct and indirect job increase)
program	Generated turnover	Improvement in installer qualification
performance		Obtained white certificates
		Generated turnover
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Assessment : a service economy chart

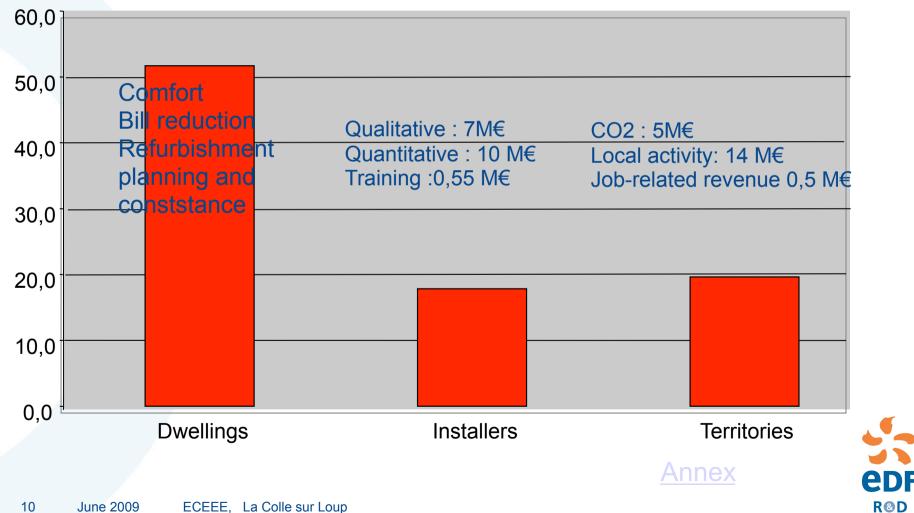
- The economic model
- The marketing
- The system of actors
- The measures to accompany the changes
- The organisation of the work





Financial evaluation of the value brought by the MDE 52-55 program

Financial evaluation (in M€) of the "MDE 52 55" program split by kind of stakeholder





Challenges to face

 In spite of trainings, installers still feel uncomfortable in promoting products beyond their traditional competences field

- A multi-skilled network still in construction for a faster development of « multi-pack solutions »
- The role of installers as advisors in energy efficiency to be clarified or strengthened



Benefits and costs related to the MDE 52-55 program (for each kind of stakeholder)

Actors	Benefits	Costs
EDF	Experimentation of new energy efficiency offers	Financial and technical support
	White certificates	
	Experience in large-scaled energy efficiency programs	
Local authorities	Local economic development	Communication expanses
	Increased attractiveness	
	Competence network	
Local building firms	Improved skills	EDF Network subscription
	Integrated refurbishment work with higher added-value	Personal investment during training sessions
	Competence network	Additional staff expanses (included research for skilled people)
Households	Improved comfort	
	Easier refurbishment work planning	edf
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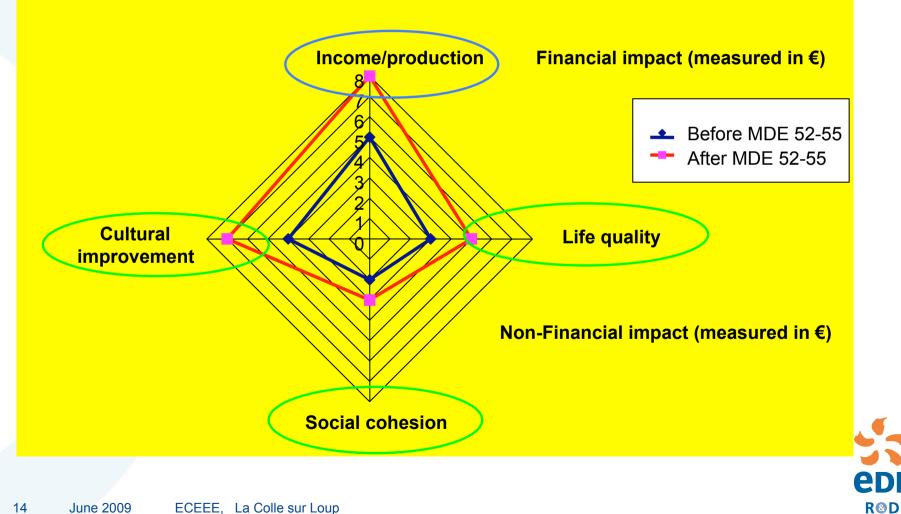
 A new methodological approach for the development of assessment tools

- A new sight in order to understand relationship between energy efficiency and economic development...
- ...Although the program itself was not developed in such a vision
- A sight which could inspire oncoming regional energy efficiency policies...





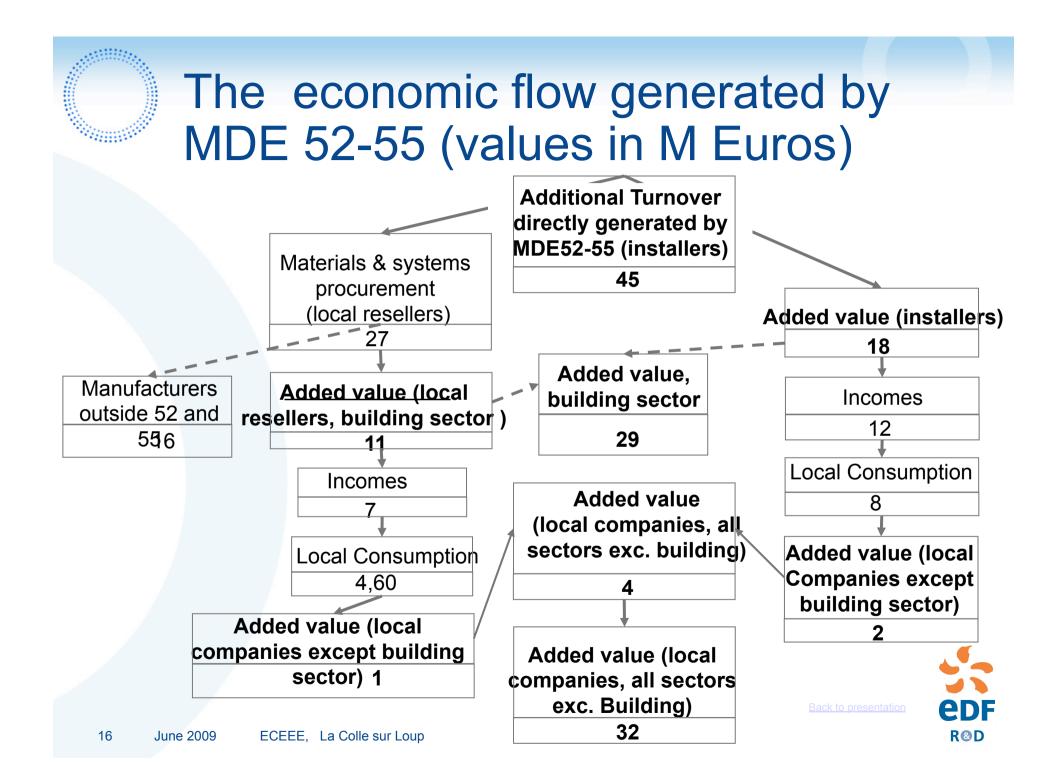
A proposed scheme of a full standing impact economic impact analysis of the MDE 52-55 program





Annexes







Annex : Michelin and the service economy theory



Service economy theory world

Firms rent their tires, and buy a long term service

Michelin is the owner of the tires, and contracts with the firm to maintain its fleet tires

Before the tires are damaged :

- the truck tires are regularly checked
- used tires are replaced and repaired/



Michelin benefits increase if the tires last long



Annex : assessment of realised work, at individuals', from nov. 2006 to feb. 2009

- Number of realised refurbishment work : 9506 (1684 in 2009)
- Craftsmen in the network : target 300 in 2009
- Trained persons : 354
- Jobs created : 106 (since beginning, nov 2006)
- Cumac (GWh) : 460 since beginning

