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An innovative & ambitious approach to kick start deep energy retrofit in social housing initially developed in NL

http://www.youtube.com/watch?v=JdzgWREvQ-o
Once upon a time in Netherlands...

Barriers toward a mass market for deep energy retrofit in social housing are real & diverse but could be overcome through a multidimensional innovation process.

An independent market development team being set up to play an « intermediation role » in the ecosystem, being paid by public authorities, to facilitate the organisation of a market between social housing organizations & solution providers.

Solutions (on method, organisation, contracting, financing) being experimented on real projects by front runners among construction companies & social housing organizations.
The challenge: organize proper market conditions for a new economic model to emerge
Innovative & ambitious core principles of the approach

**Net zero energy consumption warranted on 30 years**
- Local renewables energy production
- Low energy consumption warranted for defined reasonable behavior

**Retrofit performed in 1 week maximum**
- High quality pre fabricated elements used
- Some even make it in only one day

**Over cost financed at 100% by energy savings on 30 years**
- Over cost of investment should be lower than energy savings on 30 years
- Low rate finance mechanisms through public / semi public finance

**Attractive, comfortable & beautiful**
- Adjustable look
- Comfort & well being addressed
- New appliance A+++ & new kitchen

- Initially in NL, 6 social housing associations & 4 constructions companies involved
- Many more now, 1 300 retrofit done, 10 000 planned & 100 000 in discussion
A Modus Operandi build on blending from the Dutch approach & our experience of the National markets (Fr, UK,...)

- Establish a market development team
- Analyze & solve 100% of barriers in parallel
- Secure a massive demand in social housing
- Build an open cooperation among solutions providers
Price curve getting down in NL ...
... as well as delivery time

2 weeks
1 week
1 day
The aim is the same than in NL: developing a market for attractive zero energy warrantied retrofit, with no subsidies.
Now to come in 2017: first pilot projects out of NL, in synergy with another EU program: Interreg NWE E=0
Example of an EnergieSprong retrofit performed in 1 day

https://www.youtube.com/watch?v=I3WBT2eAArI
Appendix:
Pictures from NL projects
Work in process...
Work in process...
City: Melick
City: Arnhem
City: Emmen
City: Melick
Works for multi storey buildings
Works for multi storey buildings
Localité: Gronigen

Works for multi storey buildings
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