



European
Commission



SUSTAINABLE ENERGY
WEEK 24 - 28 JUNE 2013

EU SUSTAINABLE ENERGY WEEK 24-28 JUNE 2013



Michele Zuin
27.06.2013

Energy



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COMUNE di PADOVA
SETTORE AMBIENTE

LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

The Municipality of Padova and financial tools to promote energy sustainability at local scale

room JDE 70B-1040
Committee of the Regions
Rue Belliard 99-101
Brussels, Belgium

27th June 2013



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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

- THE CITY'S CONTEXT

- SOLAR PADOVA INITIATIVE

- PADOVA FINANCIAL INVESTMENT TOOL





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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

- THE CITY'S CONTEXT



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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

- 1960s and 1970s...economy BOOMING years...
- ...Also housing industry was booming...
- ...Fast pace but poor energy quality...





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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

- Sustainability enters little by little...the Kindegarden....



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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY



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- ...Parco Fenice...



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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

- ...some industrial new buildings...





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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

- ...still lot left to be done...



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LOCAL LEADERSHIP IN SUSTAINABLE ENERGY

- SOLAR PADOVA INITIATIVE "PADOVASOLARE"





LOCAL LEADERSHIP IN SUSTAINABLE ENERGY



PADOVA SOLARE: THE INITIATIVE

- **GOAL:** 500-1000 PV Plants in the city
- **CONSORTIUM:** Comune, PV panels local producers, Banks
- **PLANTS SIZE:** 3 - 6 kW_p for single house, for condominiums to 20 kW_p



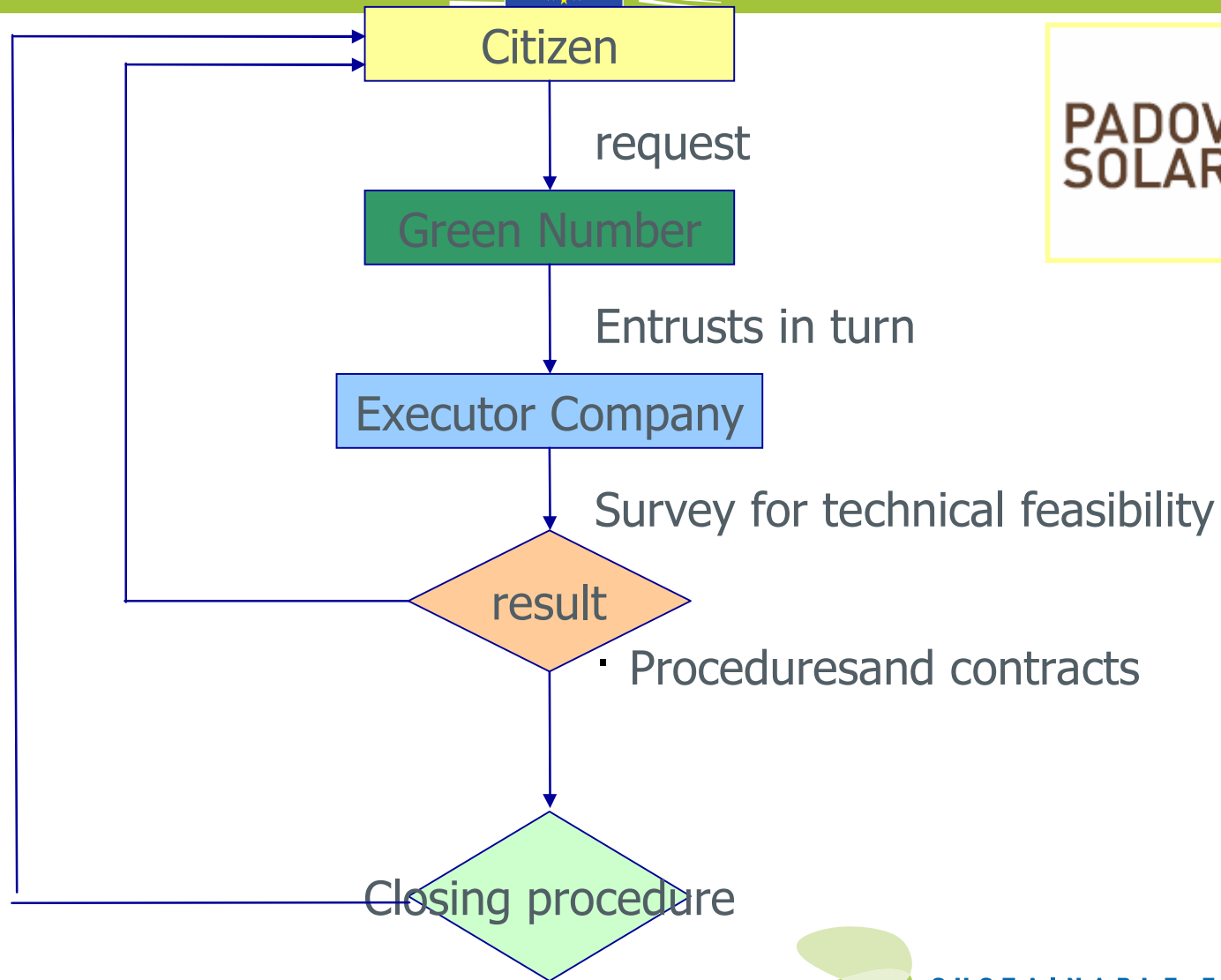


LOCAL LEADERSHIP IN SUSTAINABLE ENERGY



PADOVA SOLARE: THE SCHEME







LOCAL LEADERSHIP IN SUSTAINABLE ENERGY



PADOVA SOLARE: THE SCHEME

All material costs, installation costs and insurance cost are included (20 years)

All bank conditions are comprised (100% 20 years loan repayed by GSE feed-in tariffs)

PADOVA SOLARE: NUMBERS

700+ requests in 3 months





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS

- The scheme has been similarly applied to Public owned buildings





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS

- ...the results...the city is 3rd in the national context for PV plants on private roofs and the PV plants of Communal estates cover the 50% of total electric public needs



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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS

- ...BUT...is it an electric subsidized governmental initiative a REAL Sustainable Energy initiative at a Local Government scale?
- ...Local Government should try to activate AMBITIUIOS bottom-up initiatives





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS



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- PADOVA FINANCIAL INVESTMENT TOOL





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS



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- ...Born in the context of the implementation of Padova SEAP through the IEE CONURBANT Project



IEE/10/380/SI2.589427



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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS



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- ...Born in the context of the implementation of Padova SEAP through the IEE Covenant CapaCITY



IEE/10/389/SI2.592806





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS

- ...Padova Financial Investment Tool is one of the 2012 approved IEE MLEI PDA Projects...

...under the name PadovaFIT!

IEE/12/083/SI2.645707





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS

WHAT IS IT?

- The PadovaFIT! PDA action proposes to boost this local commitment by delivering a large scale, housing retrofit programme of EE and RES measures sustained by an innovative financing scheme allowing all interested householders to have access to the measures
- To do so, CPD has brought together a team of experienced local private stakeholders (an ESCo, a cooperative bank, a higher education non-profit foundation and an engineering company) willing to risk and invest in the creation of the PadovaFIT! scheme.





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS

THE CONSORTIUM



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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS



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THE ACTION

- The action will make it possible to bundle a critical mass of small and differentiated investment projects making them bankable through dedicated financing schemes.
- PADOVA FIT! enables the City Council to act as a facilitator and institutional guarantor for the bundling of small projects and make them bankable, without necessarily enjoying the financial benefits of the action.
- It will also use a repayment model based on the regular billing of supplies such as electricity or gas





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BETTING ON THE FUTURE: GREEN INDUSTRIAL AREAS

EXPECTED RESULTS

- 15.800.000,00 € of foreseen investments launched in the private housing building sector (with possibility to add a share of public housing and service facility buildings)
- ca. 4500 people affected by the investments (over 2% of total population of the project area)
- ca. 4.850 tCO₂e/year of avoided GHG emissions
- ca. 15.200 Mwh/year of primary energy savings
- ca. 2.300 Mwh/year of Renewable energy produced
- a brand new PadovaFIT! financing scheme



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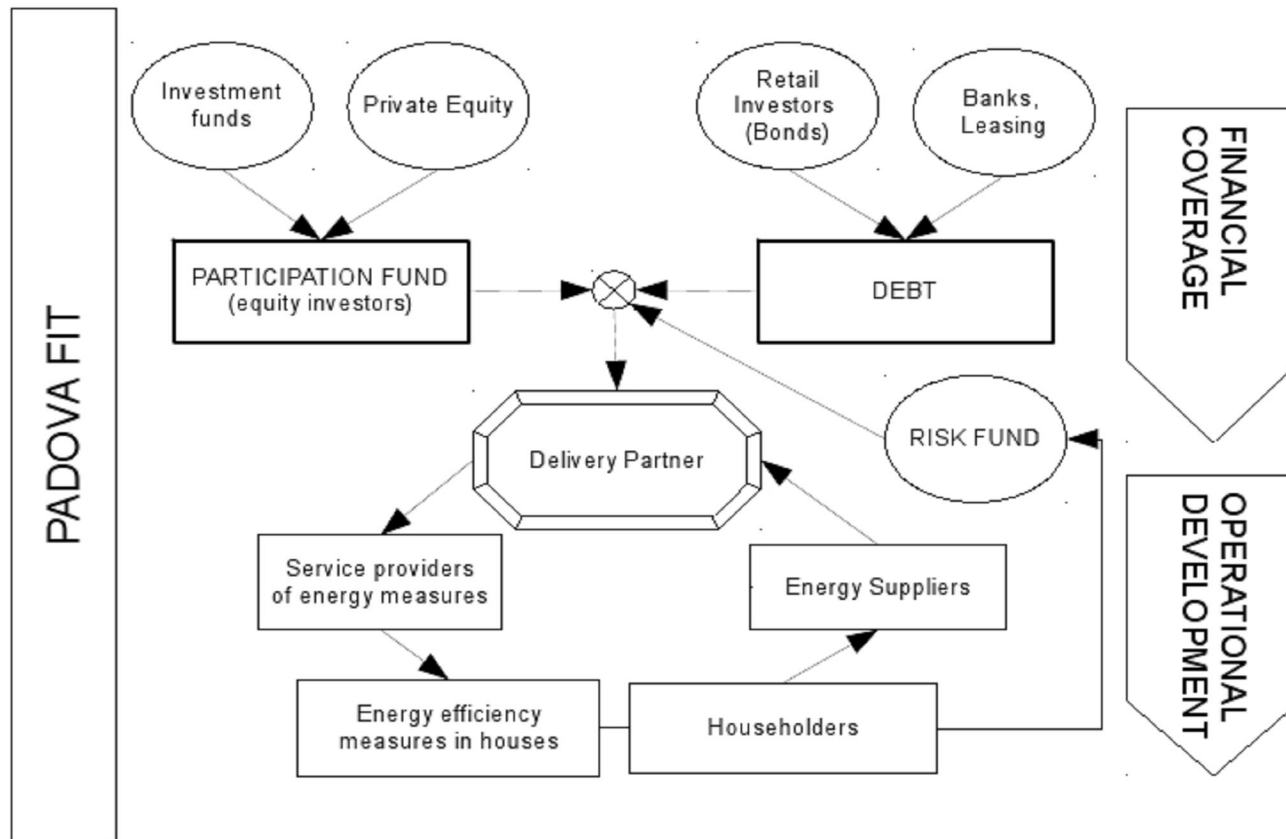


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GENERAL INVESTMENT SCHEME





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THANK YOU!

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