



S E F I P A

Sustainable Energy Financing Platform Austria

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UNIDO Workshop Vienna May 4^h 2018







- Austrian Society for Environment and Technology (ÖGUT) www.oegut.at
 - Non-profit organization platform for sustainable development (since 33 years)
 - 100 organizations and institutions (business, administration, environmental advocacy).
 - Topics:



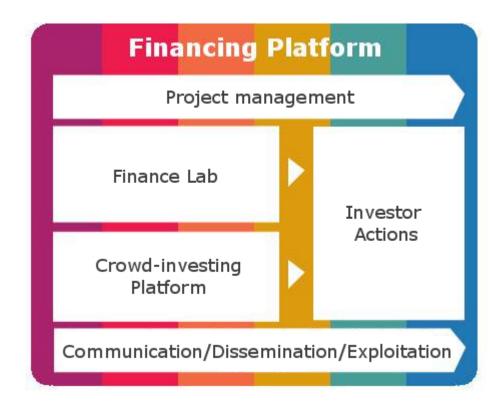
- Energy Changes Projektentwicklungs GmbH www.energy-changes.com
 - Finance/Engineering/Technical/Policy/Strategic Advice
 - References in over 30 countries!
 - Topics: renewable energy, energy efficiency and GHG mitigation activities







SEFIPA – Work plan









Crowd4Energy

- Platform for the financial contribution to SE projects in Austria
- Subordinated loans
- Projects: focus on SMEs
- Project pipeline (Leads): E-mobility, PV-roof tops, small scale energy efficiency
- Investment volume per project: 50.000 to 200.000 EUR
- Approved for the Austrian and German Financial market
- Investments from 250 EUR













PROJEKTE FÜR ANLEGER FÜR PROJEKTTRÄGER ÜBER UNS

ANMELDEN REGISTRIEREN

ANMELDEN REGISTRIEREN

ABGESCHLOSSENE PROJEKTE









	Finance Labs	Financing/legal instruments	
1	SE financial products for institutional investors	 Guidelines for Energy Efficiency in Real Estate Funds Supporting interest parties to develop green bonds 	
2	Increase attractiveness of EPC	 Quality guidelines and marketing for EPC facilitators Accounting Rules for EPC (Maastricht, EU STAT Guidance) 	
3	Incentives for investments in energy efficiency in buildings	 Monitoring of actual energy consumption Tax incentives Specific topics in tenancy law/ condominium law 	
4	Increase investments in roof top PV in "multi parties" buildings	Business/ financing models	
5	Optimizing energy related subsidy system	 Combining investment grants with guarantees Opening subsidies for ESCOs 	







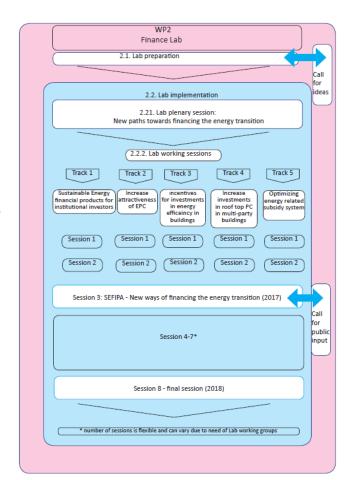


Finance Labs – Process

- Stakeholders: public administration, financial sector, business and consumer associations, energy service providers, NGOs)
- Small working groups, public input, plenary sessions

Experience

- Keeping interest of participants high, face-to-face meetings are important!
- Adapting process to changing legal environment
- Separation of legal instruments vs. finance instruments not always practical - Finance Labs are topic-based (5 Labs instead of 2 tracks)
- Country specific
- Flexible for new ideas
- Sufficient resources









Energy Efficiency in Real Estate Funds

- In 2016 additional 1.1 billion were invested in 6 open real estate funds raising the total volume of these funds to EUR 6.7 billion (end of 2016).
- SEFIPA advices real estate funds applying sustainability criteria for their buildings
- Results:
 - Fund volume EUR 823 Mio will introduce some sustainability criteria in 2018.
 - **Fund volume EUR 132 Mio** will introduce the "Austrian Eco-Label for real estate funds" in 2018

 Specific target: develop further guidelines how to make buildings in real estate funds more energy efficient.

klimaaktiv



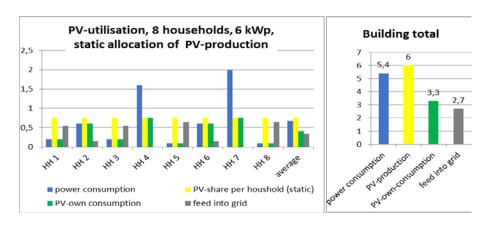


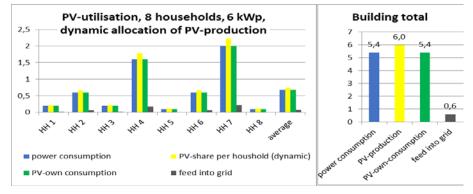




Financing PV at multi family houses for self-consumption

- Suggestions for amendment of the Austrian Electricity law, by SEFIPA (June 2017)
- National wide information platform and advisory service for pilot projects together with Austrian PV-association
- 5 business models developed













Business models for PV-own consumption at multi family buildings

model 1 "PV plant as infrastructure" ("free power for residents")	model 2 "Residents organize PV-plant"	modell3: company leases PV-plant to residents	model 4 "PV- supply-contracting"	model 5 "full supply by energy supplier"
Landlord invests in	Residents invest	Company invests	Contractor invests	Energy supplier
PV and provides PV	and operate PV-	and operates PV-	in PV-plant and sells	invests and
power free to the	plant. Distribution	plant and leases a	PV-power to	operates PV and
residents (compared	of PV-power and	PV-contingent	households by	supplies residents
to joint laundry	costs by internal	(allocation) to each	Cent/kWh own	with mix of PV-
room or bicycle	agreements. Legal	household	consumption	power and power
storage)	form: E.g. founding			of the net (all in
	of association			one supplier)





Financing PV at multi family houses for self consumption



DAS TEAM DER INFORMATIONSPLATTFORM

Lernen Sie die Projekt- und Teammitglieder kennen!







Awareness raising, information campaigns and dissemination jointly with PV-Austria, Austrian Climate and Energy Fund and Energy Agency of Lower Austria

www.pv-gemeinschaft.at started March 2018

BEST PRACTICE BEISPIELE



Graz		
11,4 kWp, 44 Module, Gesamtfläche 71 Quadratmeter		
6 Parteien		
statisch		
Lithium-Ionen Speicher "eStore" 10 kWh		
in Bau		
Zur Presseaussendung		
DiplIng. Matthäus Hubmann		
Energie Graz GmbH & Co KG		
www.energie-graz.at		



Adresse: Graz

Anlagengröße: 12,2 kWp, 51 Module, Gesamtfläche 85 Quadratmeter

Anzahl teilnehmender Parteien: 8 Parteien

Abrechnungsmodus: statisch

Weitere Aspekte: Salzwasserspeicher 12 kWh, E-Tankstelle & Carsharing-Angebot mit Elektroauto

Status: in Bau

Mehr Informationen: Zur Presseaussendung

Einreichperson: DipL-Ing, Matthäus Hubmann

Firma: Energie Graz GmbH & Co KG

Website: www.energie-graz.at







Financing PV Energy Supply Contracting

 In Austria PV-Contracting less applied, due to risk of default of PV-consumer (e.g. insolvency, conversion of production)

Solution: Option to switch selfconsumption to specific default feed in tariff.

Working group elaborates suggestion for the next Eco Electricity Act (supposed autumn 2018)







Facilitators for Energy Performance contracting (EPC)

- Background: Clients (small municipalities or SMEs) often overstrained by complexity of EPC
- Solution: independent facilitators support clients at tender process
- Development of
 - quality criteria for facilitators
 - modular structure of service packages for clients
 - list of quality proved facilitators

published by regional energy agencies, Austrian association for energy service company (DECA)







Maastricht neutrality of Energy Performance contracting (EPC)

- Background: In Eurostat guidance note 7th August 2015 EPC was defined as depth increasing according Maastricht criteria
- Solution: Changes of Eurostat guidance note
- Meeting and discussion with Statistik Austria and responsible Austrian ministries with the request to argue for Maastricht neutrality of EPC at Eurostat
- End of 2017: change of Eurostat guidance note, EPC under certain framework Maastricht neutral
- Working group in AT: screening existing EPC model contracts and suggestion for amendments

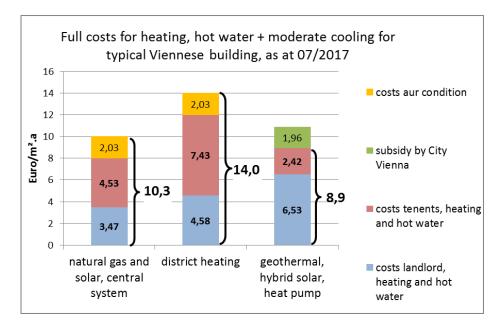








- Heat supply contracting solution for the split incentive of tenant / landlord
- <u>Technical solution</u> of saisonal heat storage by deep drillings, solar and heat pumps, SPF >6
- Organisational solution by joint energy system for a block of building: economy of scale and gaining synergies (potentials solar, storage mass, peak load planing)
- <u>Economic solution</u>: Investment and operating by Supply contractor. High investment costs shared between landlord and tenant







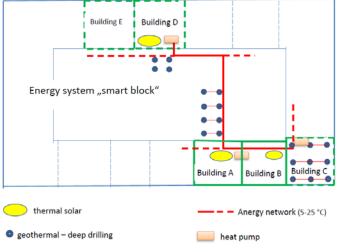


ÖGUT

Heat supply contracting – pilot project

- Block of 18 buildings, tenement houses
- High investments for geothermal, solar and heat pump, low energy costs.
- Phase I: 2 buildings, 20 apartments start of construction: spring 2018
 Phase II: 4 additional buildings (planned 2019 and 2020
- Full cost: lower than district heating system
- 85% Energy savings (20 vs. 157 MWh/a)



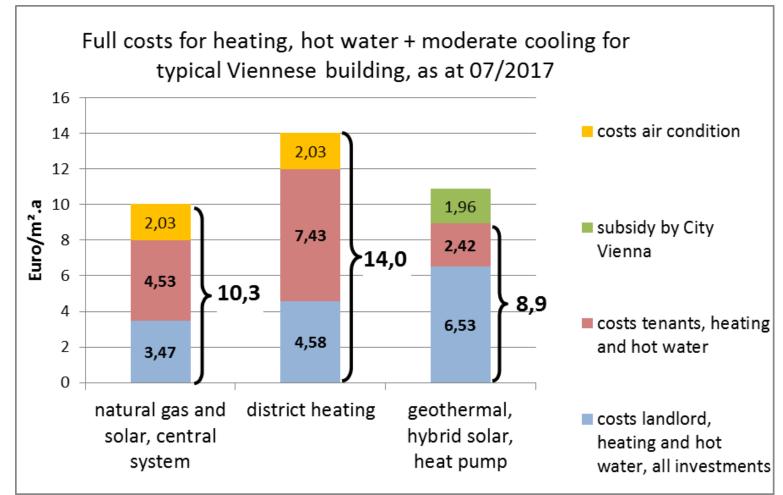












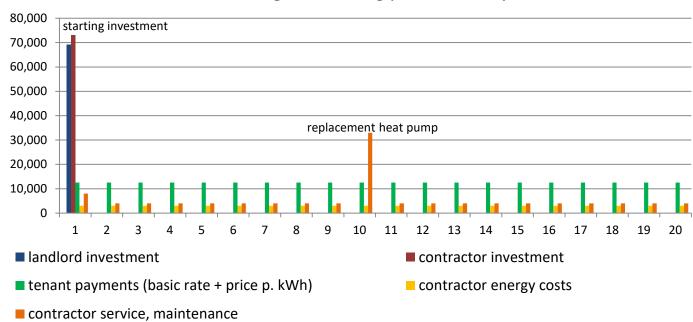






Heat supply contracting – full costs comparison by 20 years – investment sharing

cost distribution during contracting period of 20 years









Heat supply contracting – success factors

- comparison of <u>full costs</u> of heating systems (e.g. 20 years period)
- energy-net across buildings and estates (5-25 °C), block of houses
- Fair share of investment costs between tenant and landlord
- Stable conditions, planning security for contractor





- Combining Investment Grants (Ministry of Environment) with Guarantees (Ministry of Economy)
- hotel sector in AT: high investments needed in energy efficiency
- Existing environmental subsidy provided through MoE,
- but: banks / suppliers are reluctant to finance projects if the credit rating of the hotel (where the EE equipment shall be installed) is low. – tourism sector!
- due discussion and arguments of SEFIPA working group a combination of
 - federal environmental investment grant (provided through MoE) and
 - guarantee provided by Austrian promotional bank for the tourism (OEHT) became feasible.







Combining Investment Grants (Ministry of Environment) with Guarantees (Ministry of Economy)

Certain energy efficiency investments in hotels could be financially attractive due to the environmental subsidy provided through MoE, however banks and/or suppliers (of energy efficiency equipment) are reluctant to finance the hotel to purchase the equipment if the credit rating of the hotel (where the EE equipment shall be installed) is low. Until now project sponsors have not been per-mitted to combine a federal environmental investment grant (provided through MoE) with a guarantee provided by Austrian promotional bank for the tourism industry (OEHT)

Examples for applying this approach could be (taking into account either environmental investments only or mixed environmental and non-environmental investments):

Environmental only:

- Both (MoE und OEHT) subsidies within de-minimis regulations
- OEHT within de-minimis and MoE under environmental subsidy law and both under European General Block Exemption Regulations
- OEHT and MoE each its specific limits and jointly the higher of both limits of General Block Exemption Regulations

Mixed Project

 Combining KPC with OEHT dedicated credit line and guarantee if both jointly are within General Block Exemption Regulations limits







Tax Incentives – Renovation of Residential Building Stock

 (2016-2017) Submission of a number of fact sheets to relevant Austrian stakeholders promoting (re-) implementation of tax incentives to incentivize renovation of existing residential buildings (1.5% p.a. to 3% p.a.); the latest Austrian Government Programme (2017) has included this recommendation

Monitoring of Energy Consumption in Buildings

 Submission to the Austrian Energy Agency as Methodology to receive white certificates for implementing monitoring of energy consumption in buildings

Engaging Public Authorities to Issue Green Bonds

 Lobbying public stakeholders to engage in green bonds. Now part of the Austrian climate and energy strategy







Contact

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