

Climate Protection Ideas Competition

02.03.2020 - POCACITO

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Basic Informations

- Target group: companies + start-ups
- Wanted!: innovative ideas which would actively advance the 2050 climate protection targets in Frankfurt
(= decision to promote no concepts, only implementations)
- According to the masterplan our most wanted ideas contribute to these three issues: energy supply, building systems, mobility (other)
- Time frame to realise the idea: 9 or 12 months
- Introduction 2015: financed by European Transition Cities Project;
Since 2017: financed by equity capital

Our Intention + necessary preparations

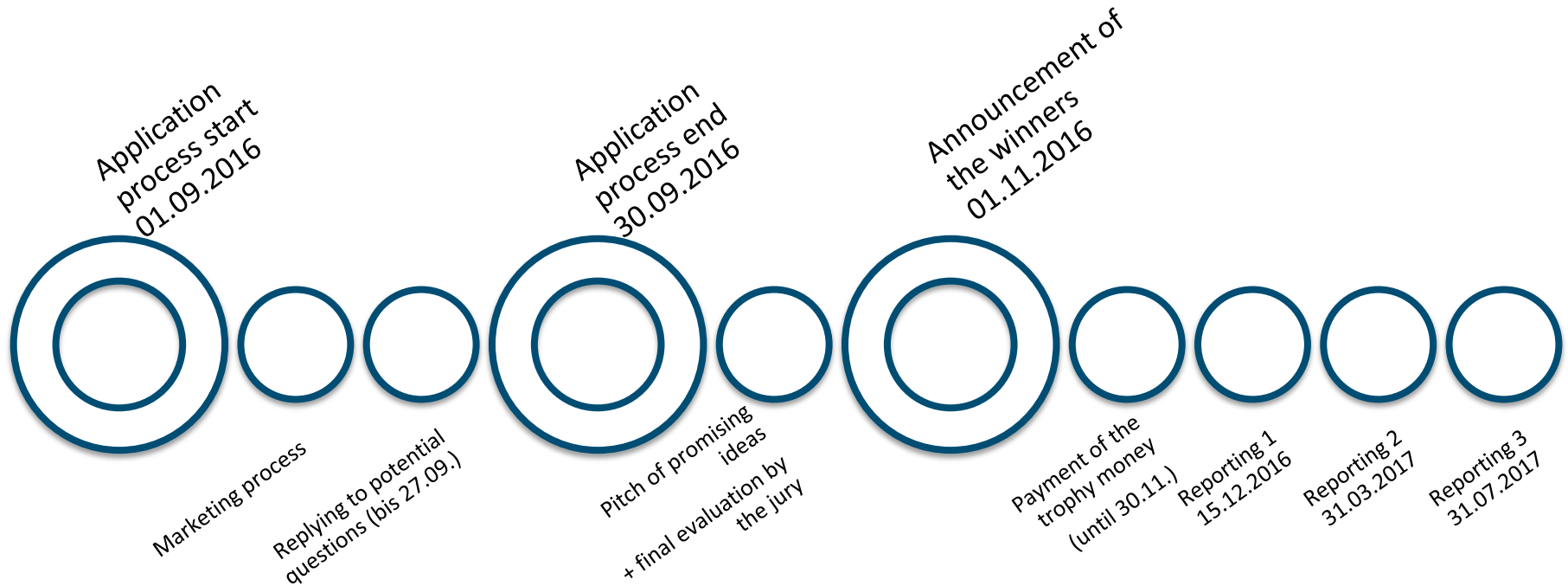
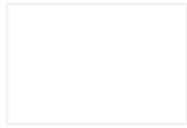
- Push climate-friendly products + services in to the local market
 - Make transition visible (prove that it works)
 - Impulse financing
-
- Fix the available trophy money: 100,000 EUR (ø 20,000 / idea)
 - Fix the conditions of participation + the application forms + the 4 jury members
 - Fix the marketing strategy
 - Fix the timeline



Photo: © Energierreferat

Symbol: Skimming a stone

Timeline ideas competition 2016



Evaluation Criteria of the independent jury

- Degree of innovation
- CO₂ savings
- Implementability of the project within 9 or 12 months
- economic efficiency
- Transferability + multiplier effect
- Consolidation after the funding



#61843070 © Oleksandr Delyk - Fotolia.com

The Winners (2015)



Photo: © Energierferat Frankfurt am Main, Roessler

Selection of promoted projects (mobility, 2015)

Starting Position –

In 2015 it was difficult to find a company that reliably offers low-emission courier services for heavy packages

CO₂-neutral logistic system with delivery bikes + e-mobility

Relocation of the inner-city delivery traffic from cars, delivery vans and minibuses to cargo bikes and delivery bikes



Photo: © Energieferrat Frankfurt am Main, Roessler

Selection of promoted projects (energy supply, 2015)

Starting Position –

In 2015 it was not easy for tenants to be supplied with solar energy of their own roof.

Solar energy for tenants -

Execution of a pilot project for tenant electricity in a multi-apartment building



Photo: © Prosumergy GbR, Liebschuh

Selection of promoted projects (mobility, 2016)

Starting Position –

In 2016, only motorists had the opportunity to earn money through advertising while driving.

bikuh app development –

Development of an app to connect advertisers and cyclists offering a corresponding advertising space on the front wheel

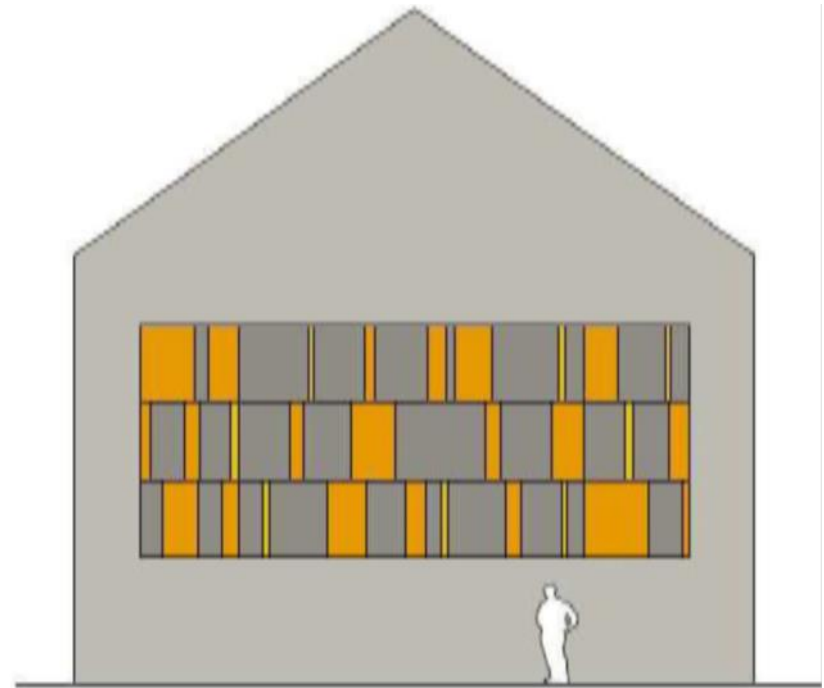
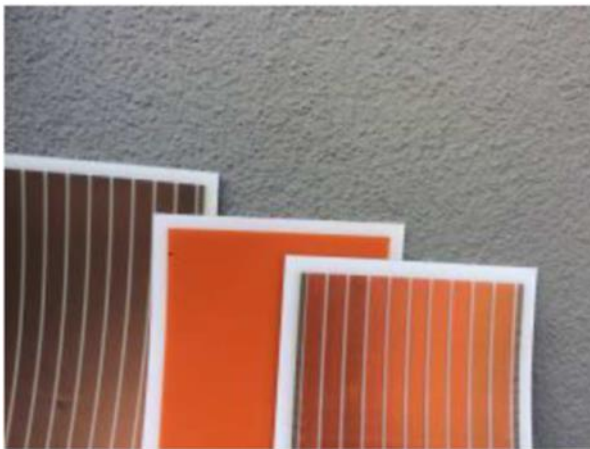


Photo: © Energieversorger Frankfurt am Main, Menzel

Selection of promoted projects (building systems, 2016)

Organic PV as front-integrated solution –

Testing of this innovative product within the framework of a residential building refurbishment



Graphic, photo: © ABG FRANKFURT HOLDING Wohnungsbau- und Beteiligungsgesellschaft mbH

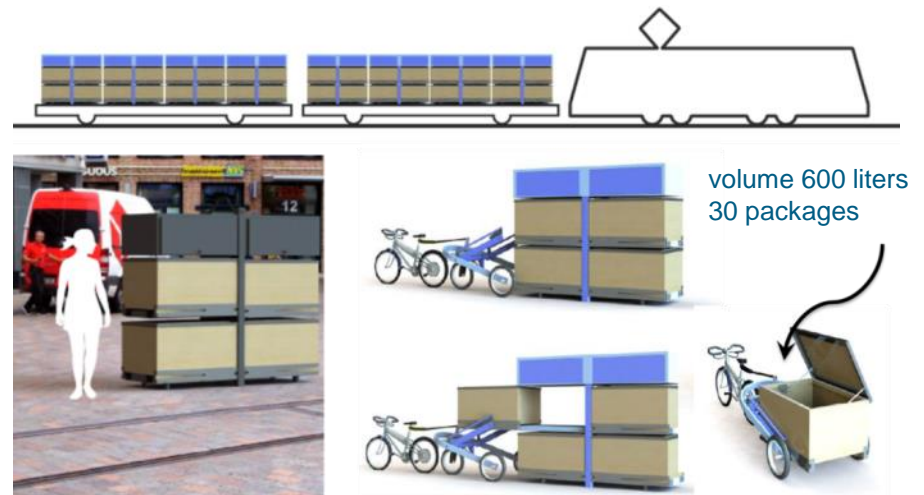
Selection of promoted projects (mobility, 2017)

Starting Position –

In 2017, the e-commerce boom puts inner-city logistics under increasing pressure.

Improvement of the inner-city logistic + the last mile –

Splitting the transport routes into longer stretches for the logistic tram and shorter ones for e-bikes: The tram is loaded with transport boxes containing parcels; in off-peak periods the boxes are temporarily stored in the micro depot, from where the bicycle trailers deliver the parcels to the customers.



Graphics: © Riemann design, Herbert Riemann

Selection of promoted projects (energy supply, 2019)

Starting Position -

Even new data centers still have a high energy consumption. At least one third of their total power is currently consumed just for the cooling.

Proactive energy-monitoring and -management of the cooling supply system in a data center

Relevant system features will be recorded and historical data will be analysed for potentials to increase energy efficiency. The result will be a prognosis model - based on predictive algorithm and artificial intelligence - that is able to create an optimized model for the energy system.



Photos: © etalytics GmbH