

Energiewende Twinning Towns Friedberg - Entroncamento



Kick off – Event

19. June

Berlin

Friedberg – Capital of Wetterau



ENERGY PARTNER

- 29 thousand habitants
- City of schools including university
- Next to the metropol-region Frankfurt / Rhein-Main with opportunity of growth
- Optimal Traffic access
- 50 years experience with town twinning
- Active and lively citizens



Friedberg – Climate / Energy



- One of the hundred signers of state climate charta
- Photovoltaic on public and private roofs
 - Stadtwerke
 - schools and gymnasium
 - Residential building
- Energy efficiency
- E-mobility
(town E-Car, infrastructure)





ENTRONCAMENTO
Cidade Ferroviária



ENERGY PARTNER

- 20 thousand habitants
- Railway City
- 100 km north of Lissabon
- Urban and young community
- Good infracture for traffic, health, education as well as sports and leisure
- Dynamic economy and well qualified citizens
- city with sustainability concerns



Entroncamento **+Verde**

- Renewable energy - photovoltaic installations
- Health and well-being - soft mobility
- Quality of life - efficiency and energy certification
- public and freight transport supports renewable energy
- Energy reduction with individual transport



Analysis of infrastructure

Goals:

- Rapid expansion of renewable energy
- Development of public charging stations
- Development of smart grid

Course of action:

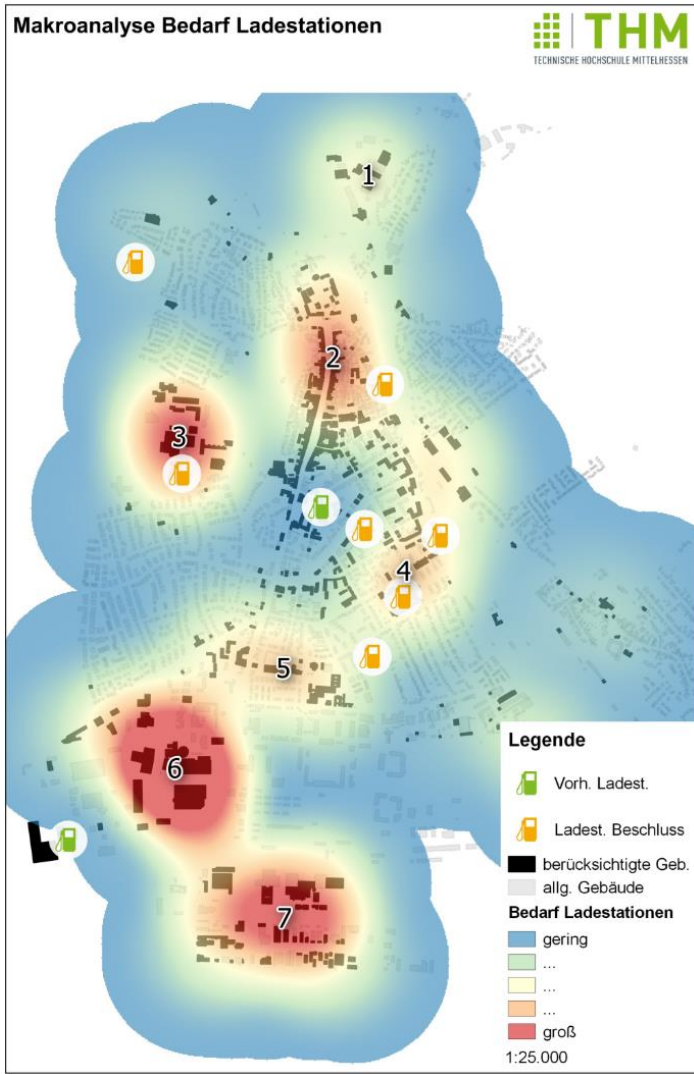
- Analysis of public available infrastructure
- Definition of relevant objectives
- GIS-Analysis of the catchment areas (Macro analysis)
- Determination and verification of designated locations (Micro-analysis)



[<https://www.htw-dresden.de/fakultaet-elektrotechnik/>]



Macro-analysis



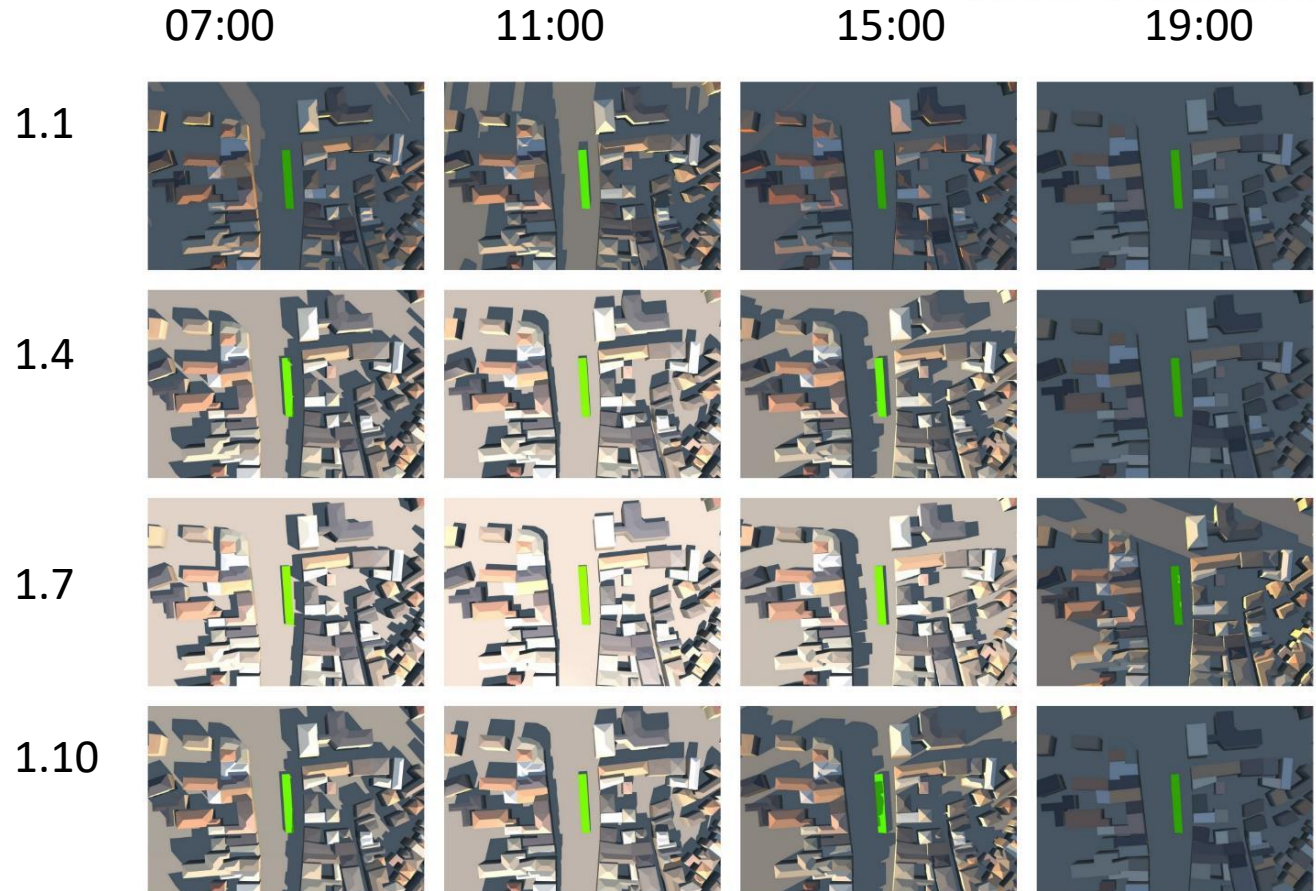
Example for boundary conditions

- 400m: good accessibility of the charging stations (CS)
- Considering already existing CS
- Calculation of requirements are areas with public interest and a duration of stay of at least 30 minutes
- Analysis of the municipal fleet is based on the specific demand
- Installation of CS on public available areas
- Any other conditions

Shading Analysis (Course of year)



Example:
solar
powered CS
near „Castle“



Energy Transformation

Looking forward



ENERGY PARTNER



Dirk Antkowiak

Vice mayor of Friedberg

Jorge Faria

Mayor of Entroncamento