



ENERGIEAVANTGARDE
ANHALT

Regional Action Plan

Project: INTENSIFY

Partner organisation concerned:

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01 Policy context

The Action Plan aims to impact:

- Regional development of policy instrument

Name of the policy instrument(s) addressed:

- KEK - Klima- und Energiekonzept Sachsen-Anhalt (Climate and Energy Concept Saxony-Anhalt)
- Ministry of Infrastructure and Digital Assets (previous Ministry for Regional Development and Transport - MLV)
- Regional Climate Protection Strategies like European Energy Award (Dessau-Roßlau)

Further details on the policy context and the way the action plan should contribute to improve the policy instruments:

At the start of the project, the Energieavantgarde Anhalt intended to use the ERDF - Operational Program of Saxony-Anhalt 2014-2020 from the Ministry for Regional Development and Transport - MLV, but since it ended in 2020, we decided to additionally focus on Saxony-Anhalt's coalition agreement 2016 - 2021, which gives us a better opportunity of improving it. This coalition agreement is called the KEK - Klima und Energie Konzept (Climate and Energy Concept). This additional year gives us the opportunity to accomplish significant improvements in our focused fields of sector-coupling/balancing between energy sectors. Furthermore, in the new coalition agreement, Anhalt set a new climate protection target for the state of Saxony-Anhalt equivalent to 31.3 million Tons of CO₂ by 2020. The KEK also gives a more detailed outlook on the further energy and climate policy requirements that are needed to reach the medium and long-term national and European targets for the years 2030 and 2050. The KEK lists five major goals: Energy (1), Infrastructure (2), transport (3), Industry and economy (4) and Agriculture, Land use, forestry, food (5). The Energieavantgarde will focus on goals 1, 3 and 4, but all of them are intertwined and need to be improved in order to reach the climate goals. With the upcoming elections on the 26th of September 2021, changes are to be expected, but we are in contact with the ministries, and they have assured us, that the KEK will continue.

Nevertheless, the ERDF of the Ministry of Regional Development and Transport MRDT continues to be the basis of our project because it reflects our ambitions to reduce CO₂ emissions and offered initial inspirations. We designed our good practices according to the ERDF and believe we can make significant contributions to Saxony-Anhalt's shift towards a low carbon economy in all sectors by focusing on the KEK, a long term active policy.

The Energieavantgarde Anhalt will support the implementation of KEK by discussion and developing up to three elements for a regional equilibrium circuit and testing these in the living-lab Anhalt (Reallabor Anhalt):

- Mobility concept in Dessau-Roßlau, which uses and supplements existing infrastructure in order to test vehicle-to-grid prototypes in addition to CO2 emissions reducing mobility.
- Joint ventures are being discussed with the regional municipal utilities to accelerate the smart meter rollout and to understand the network expansion as a joint task of regional municipal utilities (cooperation with the InnoKoRes project).
- CO2 emissions reducing festival in a de-industrialised region in an effort to shift the populations perception of climate change and to enforce necessary changes in all areas in order to reach the climate goals - in cooperation with Ferropolis.

In our regional stakeholder group, we are currently discussing how the objectives of the MRDT guideline will be adapted to the objectives of the KEK (in the responsibility of the Ministry for Environment, Agriculture and Energy - MULE) in a revision of the regional development-objectives. We also discuss how to use already existing planning tools like the „Stakeholder Empowerment Tool“ to support the KEK. Currently, the Stakeholder Empowerment Tool is being improved in the project Heimat 2.0. A CO2 balance sheet function is being designed, so that the population can better grasp the local situation.

Our aim is to support and improve the KEK through our good practices, which we will explain in detail in the following.

02

Details of the actions envisaged

ACTION 1

Reduction of the CO2 emissions in the city Dessau-Roßlau through the development of an E-Mobility strategy

Objective: to reduce CO2 emissions in Dessau-Roßlau city centre and suburbs through e-mobility (bikes, LEV, cars) and community engagement and to encourage the population to adopt this new lifestyle and embrace its possibilities like car sharing.

Vision: To develop a low CO2 emission city by changing the transport sector.

Inspiration: Good Practice "Electric Vehicle Experience Centre" from Milton Keynes.

1. Relevance to the project

One of the sectors responsible for the high CO2 emission rate not only in the Anhalt region, but in the whole country, is road traffic. The reasons are many, such as: the high number of exports, the geographical position, the German focus on car mechanics and development, the social mentality towards car use and the economic power of the automotive sector.

In the Anhalt region it is no different, which is why we decided to go ahead with this action that aims to impact this sector and reduce the associated CO2 emissions, with the city of Dessau-Roßlau as a pioneer and future example in the Anhalt- and other regions.

Like the Anhalt region, Dessau-Roßlau is an ageing city, which impacts the mobility of citizens. It is, on the other hand also a student city, due to the Bauhaus and the University of Applied Sciences (Hochschule Anhalt). Its location and the presence of the Elbe and Mulde rivers make Dessau-Roßlau a "bicycle town", thanks to the mostly flat terrain.

The intensive interweaving between the city and the surrounding area, between places of residence, work and shopping, has so far resulted in a high volume of traffic (commuters). This tendency will weaken as a result of new developments in the area of purchasing and home office. In the future, it will rather be about a lively, multifunctional city center with more quality of stay and less car traffic. The traffic turnaround for Dessau-Roßlau is also a turn towards a city center that is worth living in.

We also have in our favour the current legal pressure from the EU that has generated a growing commitment to electric vehicles, which demonstrates the need for the adoption of e-mobility and the extinction of fossil fuels in the near future. This shift will have significant implications for Germany, since one of the major economic sources is the car production. Additionally, this major change will have a commercial as well as social impact.

As the aim of INTENSIFY defines, the reduction of CO₂ emissions is only achieved through community involvement and engagement. In our case, this factor is undoubtedly decisive, since the overwhelming majority of road traffic in the city centre is private transport.

The city had a long felt need to change the transportation city, but struggled to solve the issue, due to the need of involvement of public and private entities and change of very rooted social and commercial habits. When we learned about the example of Milton Keynes' Good Practice, "Electric Vehicle Experience Centre", we understood that implementing a similar center in the Anhalt region could be the solution that the city of Dessau-Roßlau had been looking for.

The exchanges of experience and study visits we made in September 2018 and October 2019 to Milton Keynes and the INTENSIFY-visit in Dessau-Roßlau in 2019 proved that it is possible to implement this idea, despite all the difficulties and complexities, and that the two cities have several similarities. The coincidence of the geographical position of Dessau-Roßlau in relation to the city of Berlin and of Milton Keynes in relation to London was an added motivation for the implementation of this inspiration in our region. Just as in England, the town of Dessau-Roßlau has a large number of workers who live in and nearby Berlin and commute frequently between towns – and vice versa. For years we have been struggling with the fast train connection between Berlin and Dessau-Roßlau, a problem made worse by the relocation of the Federal Environment Agency (Umweltbundesamt - UBA) from Berlin to Dessau-Roßlau.

The feedback received from Milton Keynes regarding the implementation of the "E-Vehicle Experience Centre" and the feedback and engagement of the community is an important factor that makes us believe in the success of this action.

2. Connection with the policy instrument

As discussed above, our first good practice aims to directly support the KEK by implementing an E-Mobility Centre in Dessau-Roßlau. As mentioned, one of the major goals of KEK, the third one, is to transform how transport is done in Dessau-Roßlau. We directly support this goal, by developing an E-Mobility Information Centre. Through this we want to enable the population to educate themselves about what alternatives exist to traditional, gasoline powered automobiles. Through this we hope that more people will switch to environmentally friendly alternatives, like car sharing services or e-bikes. Additionally, involving the population in changes and making them a part of them, reduces resistance to new implementations introduced by policy makers and increases overall acceptance and success. Fewer cars makes the streets safer for more pedestrians and bikes while at the same time reducing CO₂ emissions.

3. Nature of the action

The main goal of Action 1 is to change the mentality and habits of the Dessau-Roßlau community about mobility. By community we mean inhabitants, workers, students and all people who are daily or frequently part of city life.

This goal is of course related to the overarching aim of the INTENSIFY project. We can only change the mentality and habits of the community if we work on engaging them in the need to reduce CO2 emissions produced by the current style of mobility.

The CO2 benefit will be measured after November 2021 in cooperation with the Climate Manager of the city of Dessau-Roßlau.

All activities that are planned contribute to the main activity from Action 1: the E-Mobility Information Centre.

EAA is cooperating with the Climate Manager of Dessau-Roßlau aiming to contribute to the Climate Concept that is being written right now in compatibility with our Policy Instrument KEK. All activities aim to impact directly the Policy Instrument KEK specifically in terms of mobility ("Maßnahmen im Handlungsfeld Verkehr und ihre Priorisierung"/ "Measures in the field of action Transport and their prioritisation") and also the Ministry of Infrastructure and Digital Assets.

Furthermore EAA is working with the different regional Stakeholder that can contribute to the implementation from this action and though it impact the Policy Instruments. Our important stakeholders include the representatives of the Ministry of Regional Development and Transport (MLV), whose guideline valid until 2020 was initially also our policy instrument. In the new legislative period, the newly structured Ministry of Infrastructure and Digitalisation is now working on new guidelines in the area of climate protection and mobility. Here, we are actively influencing the ministry and members of the regional parliament and bringing the results of the intensify project into the discussion as good examples.

We also keep contact with an INTERREG Project Partner from Erfurt (Germany) that is working in the project "Prioritizing low carbon mobility services for improving accessibility of citizens", exchanging experience and ideas that can also develop our work in the region.

We will implement different activities (the information about costs and funds can be accessed in 6.):

| | Activities | Description | Organization | Timeline | Objective | Measurement | PI influence |
|------------|---|--|---|--------------------------------------|---|--|---|
| Activity 1 | "Zukunftsreise" (Journey into the future) | This conference aims to give voice to the community of Dessau-Roßlau and discuss topics that are considered important to the future of the city. The community considers "Mobility" a importante topic, what give as the opportunity to share our action and work together with the community and city to implement it. (For more details please read 3.1.). | City of Dessau-Roßlau in cooperation with Culture Forum Dessau (EAA is a partner) | From October 2021 until October 2022 | At least 1/3 of the participants considered this action important for the future of Dessau-Roßlau | Feedback from the participants News | Climate Concept from the city of Dessau-Roßlau in compatibility with the KEK (Climate and Energy Concept Saxony-Anhalt) from Germany. |
| Activity 2 | E-Mobility Day dedicated to the Action 1 in the European Mobility Week 2022 Dessau-Roßlau | We not only want to talk with the community, but we want to give them the opportunity to experiment the change. For that reason, we will cooperate with the city in the European Mobility Week 2022. (For more details please read 3.2). | City of Dessau-Roßlau EAA | September 2022 | At least 1/3 of the participants considered this action important for the future of Dessau-Roßlau | Questionnaires Interviews | Climate Concept from the city of Dessau-Roßlau in compatibility with the KEK (Climate and Energy Concept Saxony-Anhalt) from Germany. |
| Activity 3 | Test Drive with LEV and PAKET-RAKETE, XBus and similar. | We work together with partners that are developing new e-vehicles. We want to give the people the opportunity to use them and collect the feedback after this experience (For more details please read 3.3.). | WZB Fraunhofer IMWS, Olaf Lange and FVK GmbH Paket-Rakete Bus Constin Innovation And others | From October 2021 until October 2022 | At least ½ of test drive participants consider transport important for future transport of goods | Questionnaires Interviews | Chapter "Mobility" from the KEK (Climate and Energy Concept Saxony-Anhalt) and the new Ministry of Infrastructure and Digital Assets. |

| | Activities | Description | Organization | Timeline | Objective | Measurement | PI influence |
|------------|---|--|-----------------------------|------------------------------------|---|-------------------------------------|---|
| Activity 4 | Digital 3D-mock-up of the city | After give to the community the opportunity to experience electric vehicles in the European Mobility Week, we aim to show them how Dessau-Roßlau will effectively look after the implementation of our ideas. For that we will develop a 3D mock-up in cooperation with students of the region. (For more details please read 3.4.). | EAA Hochschule Merseburg | From April 2022 until January 2023 | At least ¼ of respondents consider that they could visualise the practical application of the mock-up in Dessau-Roßlau. | Questionnaires Interviews | Climate Concept from the city of Dessau-Roßlau in compatibility with the KEK (Climate and Energy Concept Saxony-Anhalt) from Germany. |
| Activity 5 | Inauguration of the E-Mobility Information Centre | The high point of the Action 1 will be the inauguration of the E-Mobility Information Centre, where all the community will receive information about the new mobility options of the city. (For more details please read 3.5.). | City of Dessau-Roßlau | January 2023 | Implementation of E-Mobility Information Centre | Opening the centre to the community | Chapter "Mobility" from the KEK (Climate and Energy Concept Saxony-Anhalt) and the new Ministry of Infrastructure and Digital Assets. |

3.1. "ZUKUNFTSREISE" DESSAU-ROßLAU

The city of Dessau-Roßlau is organising the event "Zukufsreise" according to the method of a future conference, which in English means "journey into the future". This event aims to exchange ideas and identify the needs and expectations of the community of Dessau-Roßlau regarding the future of the city in regard to climate change and other environmental problems. We are one of the partner entities of this project and our aim is to support the community and the city that considers mobility as an area to work on and improve in the future of the city. For this reason, the INTENSIFY project, more specifically this action 1, fit perfectly in this event and in our goal with the participation and partnership.

The start of this event was planned for 2020, but due to the pandemic COVID-19 it has been postponed to October 2021. In fact, it coincides perfectly with the start of phase two of the INTENSIFY project, which is an advantage for us. However, this postponement made it difficult to have an initial contact with the community, which would have allowed us to understand the openness and acceptance of our action by the community of Dessau-Roßlau. Fortunately in October 2021 we could understand the importance that mobility represents to the community, aiming a better future of Dessau-Roßlau. A sample of 80 participants representing the local community were present at this event and divided in eight groups, each one with a different theme.

October is just the beginning of this 'journey into the future' and we have several activities planned for the course of this event and for the next steps, namely:

- Phase 1 – Participation in the preparation of the future conference, selection of the method, selection of those involved, formulation of goals. Closed. Energy Avantgarde sent a representative to this steering group.
- Phase 2 – Participation in the opening event and understanding the community needs regarding mobility: in this phase our role is to respond to possible questions regarding the feasibility of adopting new means of transport and the redesign of the current reality of Dessau-Roßlau in terms of mobility. As mentioned, in this phase the main objective is the survey of the community needs and not the direct presentation of ideas and projects.
- Phase 3 – Presentation of the INTENSIFY project and the Good Practice from Milton Keynes and adaptation to the reality of Dessau-Roßlau: In the third phase we will present the INTENSIFY project and provide a virtual visit to the city of Milton Keynes. This visit will open minds on the reality of cities that have adopted more efficient alternatives from an environmental point of view, through the concrete example of what already exists at present and what will exist in the future in Dessau-Roßlau. Also in this phase we will show some multimedia elements with the reality of Milton Keynes adapted to Dessau-Roßlau (for example through cartoons and photo montages). At this point of the event, the active participation of stakeholders is essential, not only to answer more detailed and targeted questions, but also to ensure the feasibility of the implementation.
- Phase 4 – Presentation of the model of future Dessau-Roßlau: in this phase we will develop and present a 3D mock-up of what the city of Dessau-Roßlau will look like after the implementation of the action. This mock-up will also graphically represent the impact in terms of CO2 emissions reduction and the contribution to the quality of the environment and the health of the community. This 3D animation will be done in partnership with students from the region, giving them the possibility to be active in the project. In this step not only do we involve the younger community, but reduce costs at the same time.
- Community questionnaires: In all phases of the event, questionnaires and interviews will be conducted, in order to collect feedback and adapt, develop and improve our action and performance. The processing of the data collected in the questionnaires and interviews will be essential for the monitoring and achievement of our objective.

Our main objective for this event is, that at least 1/3 of the participants consider Action 1 important for the future of Dessau-Roßlau.

3.2. EUROPEAN MOBILITY WEEK 2022 IN DESSAU-ROßLAU

On the one hand the opportunity to participate in the "Zukunftsreise", an event which is organised by the city of Dessau-Roßlau represents an excellent opportunity to implement action 1, on the other hand it also limiting, because we are dependent of the timeline and decisions of the city.

For this reason and also because we want to test the acceptance of the community to this role model that we want to implement, we decided to not just tell the community how Dessau-Roßlau will look like, but giving them the chance experience the change.

This event will happen during the European Mobility Week 2022 in September, at the end of the journey to the future, organised by the city of Dessau-Roßlau. If our participation at this event works as we plan, the European Mobility Week will be "the cherry on the top of the cake". Through it we want the community to understand, that our vision is possible and give them the opportunity to test the new reality that we intend to implement.

Our objective with this event is also that at least 1/3 of the participants consider Action 1 important for the future of Dessau-Roßlau.

3.3. TEST DRIVE - LIGHT ELETRIC VEHICLE (LEV) AND RAKET PAKETE

During phase 3 of the "Zukunftsreise" and potentially at the European Mobility Week electric vehicles will be available to the community as test drive.

The aim of this is to show that options and solutions already exist, as well as to prove the comfort and usefulness of this type of vehicles.

For this purpose we will use the Cargo Cruiser II, which is being developed by three parties: our Stakeholder Fraunhofer IMWS, Olaf Lange and FVK GmbH (<https://innovative-produktkreislaeufe.de/resswinn/en/Projects/LEVmodular.html>). We will also use the Paket-Rakete project (<https://paket-rakete.de/>), a project from the region that shown interesse to expand its work also to Dessau-Roßlau. We are always opened to news partnerships and looking for new opportunities, so it is still opened the participation of the project XBus (www.electrive.net), the LEV-projects of Constin Innovations (<https://www.constin.de>) and similares.

3.4. 3D DIGITAL 3D- MOCK-UP OF THE CITY

To demonstrate how Dessau-Roßlau will look like in terms of E-Mobility we decided to create a 3D digital mock-up of the city. This mock-up will be available in the E-Mobility Information Centre, as well as the associated website and will also be presented at events, as a multimedia support. This 3D mock-up will be also in the E-Mobility Information Centre and will be produced in cooperation with the Hochschule Merseburg.

Our main objective with this mock-up is that at least ¼ of respondents consider that through it they could visualise the practical applications in Dessau-Roßlau.

3.5. E-MOBILITY INFORMATION CENTRE, MOBILITY HUB

The last activity is the pinnacle of the implementation of action 1. We learned with MK that to change the mobility of a city, we have to support the community and give the people the opportunity to be involved and test e-vehicles. For that reason, we will also create an information center, which had already been considered by the city as an option, next to the main railway station, as part of another project. However, it was never implemented. For this reason, we intend to go ahead with the actual construction of the information centre.

The city has a place in the city centre that can be used for this purpose. It represents a great opportunity to engage the community, due to the central localization. It will be an extension of the services of the city of Dessau-Roßlau and will work together with local tourism, with the aim to support and involve the community in the life and activities of the city and be act as a role model. All information regarding the E-Mobility in Dessau-Roßlau will be available at the E-Mobility Information Centre in physical and digital format (website and social media).

The success of Action 1 will be measure with the real implementation of this e-mobility information centre.

4. Stakeholders involved

| Stakeholder | Field / Activity | Role in RAP |
|---|--|--|
| Stadt Dessau-Roßlau | Urban planning, inner city development, climate protection | Climate protection goals and monitoring, urban climate protection management |
| DVG - Dessauer Verkehrs GmbH | Transport company | Implementation of the goals, development of new mobility offers |
| NASA - Nahverkehrsservice Sachsen-Anhalt GmbH | Local public transport company, regional bus routes | Integration of city in regional mobility offers, regional ticketing |
| WZB Berlin | Scientific research and strategy development | Advice on mobility concept |
| Fraunhofer IMWS | Scientific research | LEV co-authoring |

5. Timeframe

| Activity | Date | Status |
|---|--------------------------------------|----------------|
| Zukunftsreise | From 2019 until 2022 | In process |
| EAA - Mobility Dessau-Roßlau Event | From Mai 2021 until October 2022 | Scheduled |
| Test Drive with LEV - Light Electric Vehicle (and/or similar) | From January 2021 until October 2022 | Scheduled |
| E-Mobility Information Centre | Januar 2023 | In development |
| 3D-Mock-up of the city of Dessau-Roßlau | From April 2022 until August 2022 | In development |

6. Costs and Funding Sources

| Activity | Costs (€) | Application | Funding Source(s) |
|---|------------|-----------------------|---------------------------------------|
| Translation of the virtual visit to Milton Keynes | 200€ | Activities 1 and 5 | EAA |
| Elaboration of the 3D digital model of the city | 6000€ | Activities 1, 4 and 5 | The city of Dessau-Roßlau and EAA |
| STAFF | 32000€ | All activities | EAA |
| Air quality assessment | 1000€/year | Activity 1, 2 and 5 | The city of Dessau-Roßlau |
| Transport assessment | 1000€/year | Activity 1, 2 and 5 | The city of Dessau-Roßlau |
| Events location | 5000€ | Activity 1, 2 and 3 | The city of Dessau-Roßlau |
| LEV und Paket Rakete Test Drive | 8000€ | All activity 3 | Paket Rakete, Fraunhofer IMWS and EAA |
| Print material | 3000€ | All activities | EAA |



**ENERGIEAVANTGARDE
ANHALT**

Date: 30/11/2021

Name of the organisation:
Energieavantgarde Anhalt e. V.

Signatures of the relevant organisation:

STADT DESSAU-ROSSLAU
KLIMASCHUTZ MANAGEMENT