

MOBILITY MANAGEMENT for COMPANIES & MUNICIPALITIES

Institutional framework & good practice from Austria

Willy RAIMUND

Austrian Energy Agency; klimaaktiv mobil

klimaaktiv – climate protection initiative

**BUILDING &
REFURBISHMENT**



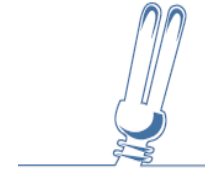
RENEWABLE ENERGY



MOBILITY



SAVING ENERGY



klimaaktiv mobil programs:

Companies



**Regions, Cities and
Municipalities**



Leisure&Tourism



Schools



Youth



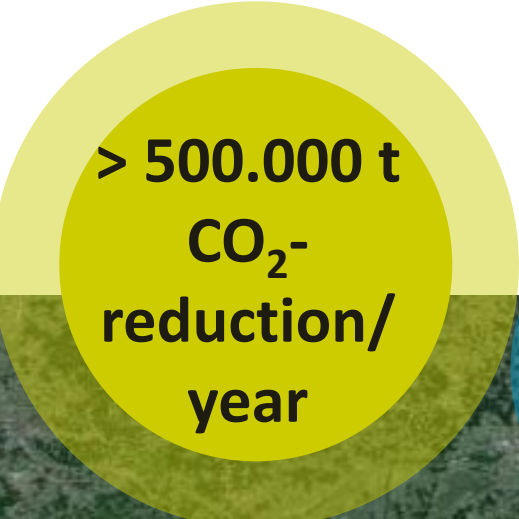
ECO-Driving Initiative



CONSULTING - SUBSIDIES - MOTIVATION - AWARDS - TRAINING

AUSTRIAN CLIMATE STARS

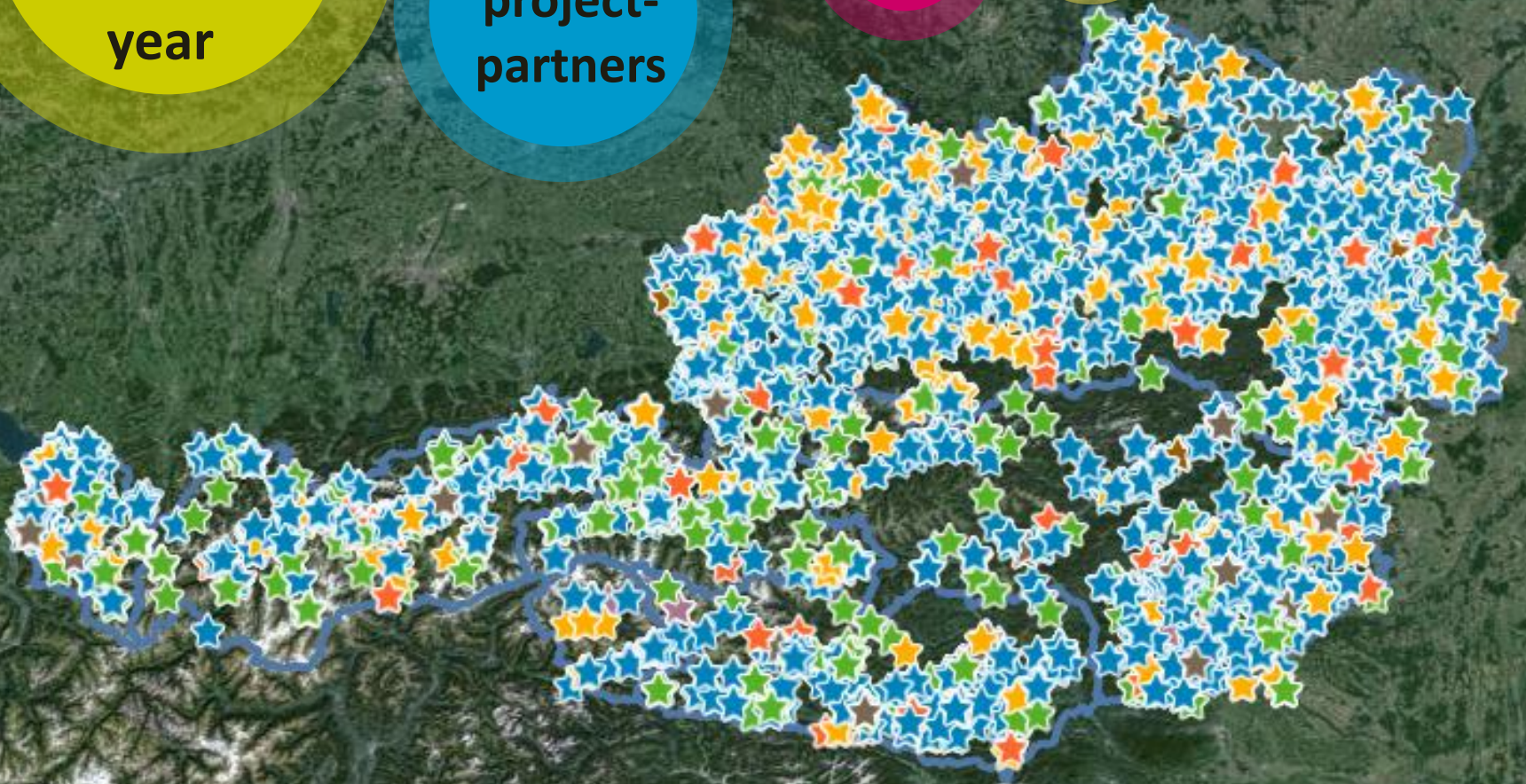
klimaaktiv mobil



**> 500.000 t
CO₂-
reduction/
year**



**> 11.600
project-
partners**



CONSULTING&SUBSIDIES

FOR REDUCING GHG-EMISSIONS IN MOBILITY

BUNDESMINISTERIUM
FÜR NACHHALTIGKEIT
UND TOURISMUS



- Investments
- Running Costs
- Planning Process



E-MOBILITY: PACKAGE OF MEASURES

FINANCIAL SUPPORT FOR COMPANIES AND PUBLIC ADMINISTRATION

For E-Cars (up to 9 seats)

Kraftfahrzeuge für:	Personenbeförderung Klasse M1 (bis 9 zugelassene Personen inkl. Fahrer)	Güterbeförderung Klasse N1 ≤ 2,5 Tonnen höchstzulässiges Gesamtgewicht
Antriebsart/Kraftstoff	Förderung pro Fahrzeug	
reiner Elektroantrieb, Brennstoffzellenfahrzeug	1.500 Euro	
Plug-In-Hybrid ¹	750 Euro	



For E-Powered Two-Wheeler

Kraftfahrzeuge für:	Personenbeförderung Klasse L1e und L3e (Kleinst- und Leichtmopeds)
Antriebsart/Kraftstoff	Förderung pro Fahrzeug
reiner Elektroantrieb	375 Euro

For E-Light Vehicle, Special Vehicle, E-Minibus

Kraftfahrzeuge für:	
Fahrzeugklasse	Förderung pro Fahrzeug
Elektrofahrzeuge (L2e, L5e, L7e)	1.000 Euro
Leichtnutzfahrzeuge (N1) (max. 3,5 Tonnen hzGg)	20.000 Euro
Leicht-Kleinbusse (M2) (mehr als 9 zugel. Personen inkl. Fahrer und ≤ 5 Tonnen hzGg)	20.000 Euro

Also for ... E-BIKES & E-CARGO BIKES!

... and E-MOBILITY CHARGING INFRASTRUCTURE!

Funding of 23,600 E-Vehicles since 2007 !!

KLIMAAKTIV MOBIL –

companies, real estate developers, fleet operators

- Mobility Management
- Promoting alternative vehicles
- Electric mobility
- Promoting Public Transport, Walking & cycling
- Creating public awareness
- Carsharing & Carpooling, ridesharing
- Decarbonising construction works
- Green logistics



Berger Logistik [Tyrol]



Employee mobility – Bike activities

- bike parking area in the underground garage
- E-Bikes rental for the staff

Environmental impact

~ 6 tons CO₂/year

Source: Berger Logistik GmbH

Family of Power SCE mbH [Carinthia]



E-Carsharing

- Eight electric vehicles for carsharing

Environmental impact

~ 35 tons CO₂/year

Source: Family of Power SCE mbH

Danube Ferry Dürnstein Rossatz

[Lower Austria]

BUNDESMINISTERIUM
FÜR NACHHALTIGKEIT
UND TOURISMUS



Electric powered Ferry

- First electric powered ferry
- Connecting Dürnstein and Rossatz across the Danube river

Environmental impact

~ 8 tons CO₂/year

Source: Fähre Dürnstein GmbH & CoKg

Boehringer Ingelheim RCV GmbH & Co KG

[Vienna]



Comprehensive concept for employee mobility

- New production facility with 500 new employees
- Promoting cycling, shuttle-service, public transport, park+ride and raising awareness for the benefits of sustainable mobility

Environmental impact

~ 690 tons CO₂/year

Source: Boehringer Ingelheim RCV GmbH & Co KG

Hans Zöchling GmbH
[Lower Austria]



Electric conveyor & gravel processing system

- Extension of the existing conveyor system to reduce truck transport
- Energy recovery by transporting gravel downhill
- Electric gravel processing system

Environmental impact

~ 404 tons CO₂/year

Source: Hans Zöchling GmbH

Peinhopf Spedition und Transport GmbH [Styria]

PEINHOPF
Transport und Logistik *eine gute Wahl!*

BUNDESMINISTERIUM
FÜR NACHHALTIGKEIT
UND TOURISMUS

klimaaktiv




Route optimization

- Fleet management system for 35 trucks
- Optimization and reduction of truck transport routes

Environmental impact

~ 43 tons CO₂/year

Source: Peinhopf Spedition und Transport GmbH

Binderholz GmbH

[Salzburg]



Electric powered lift truck

- Replacing a fuel powered lift truck with an electric powered one
- Reducing noise emissions and improve work ergonomics

Environmental impact

~ 27 tons CO₂/year

Source: Binderholz GmbH

Herbert Temmel GmbH

[Styria]



Source: Framo GmbH

Electric powered truck

- Replacing of 2 fuel powered delivery vehicles with electric powered trucks

Environmental impact

~ 80 tons CO₂/year

Verkehrsverbund Vorarlberg

[Vorarlberg]



Electric powered Bus

- 20 electric powered busses for regular service
- Charging infrastructure for the busses

Environmental impact

~ 1.280 tons CO₂/year

Source: Verkehrsverbund Vorarlberg

ÖBB Rail Equipment GmbH

[Austria]



Electric powered vehicles

- 34 electric powered vehicles for carpooling
- Different locations all over Austria

Environmental impact

~ 33 tons CO₂/year

Source: ÖBB Rail Equipment GmbH

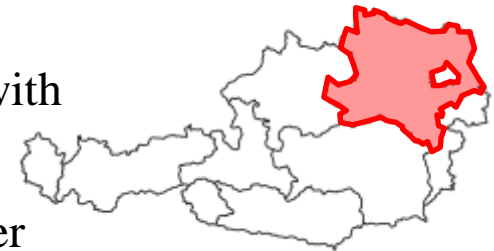
KLIMAAKTIV MOBIL – regions, cities and municipalities

- Promoting Cycling & Walking
- Promoting Public Transport
- Innovative on-demand Services
- Creating public awareness
- Electric mobility
- Alternative propulsion
- Mobility centres
- Carsharing & Carpooling
- Bike & Ride
- Optimize spatial development to minimize motorized transport



E-CARSHARING IN LOWER AUSTRIA

- More than **80 municipalities** have implemented E-Carsharing with more than **90 E-Cars**
- **Subsidies** from Ministry of Sustainability and Tourism & Lower Austria for
 - Purchase of E-Cars
 - Implementation of E-Carsharing (Running Costs)
- **Workshops** for interested municipalities, etc.



State Lower Austria	
Size	19,186 km ²
Population	1,665,753



© Energieagentur der Regionen



E-Carsharing und Gemeindebusse in NO Gemeinden - Stand Nov. 2017

- Kostenrechnung pro Kilometer
- Kostenrechnung pro Stunde
- Kostenrechnung pro Kilometer und Stunde
- Kostenrechnung mittels anderer Einheit
- Gemeindebus
- Gemeindebus und e-Carsharing

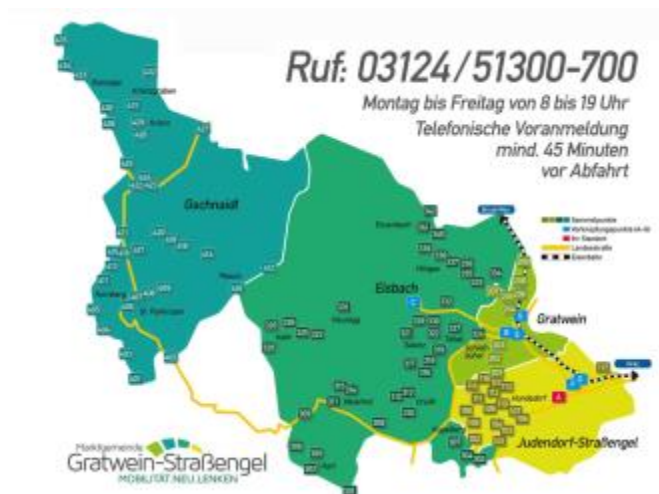
DEMAND RESPONSIVE SERVICES

GRATWEIN-STRASSENGEL

- Since 2016: Demand responsive bus called “**rufmi**” (“callme”)
- Assignment of local company for driving
- **Very high demand**
- Utilisation: mainly **children & elderly people**, but also middle-aged people (e.g. in leisure time to reach hiking trails)
- Pick-up and set-down at **collecting points**
- Single ticket: 2 € (discounted for people < 16 and retiree: 1,5 €)



Gratwein-Straßengel (Stmk.)	
Size	86.69 km ²
Res.	12,914



DEMAND RESPONSIVE SERVICES

THAUR

- Since February 2017: “**ThA-XI**“
- Local Challenge **Topography**:
 - secluded settlements (ca. 1,5 km away from center)
 - steep streets (up to 21% gradient), hardly any pavements
- Pick-up and set-down at **Collecting Points**
- Utilisation: mainly **elderly people** for shopping, consultation, etc.
- In the centre: doctor, grocery, bakery, coiffeur, drugstore, library...
- Ticket for 20 trips: 10 €
- **NEW** since August 2017: Ticket integration in Verkehrsverbund Tyrol (VVT), means: People with valid annual ticket for VVT can take advantage of ThA-XI without charge



Thaur (Tyrol)	
Size	21.04 km ²
Res.	3,937



MEASURES TO FOSTER CYCLING

GROSSSCHÖNAU

- **Objective:** to connect all 13 villages of the municipality for everyday cycling needs
 - E.g. attainability of leisure facilities, inns, municipal office, community facilities...
- **Measures:**
 - Cycling route network with signage
 - New bike parking racks
 - Implementation of bike rental
 - Awareness raising of community
- Initiatives of **local youth:**
 - Mounting of more than 100 bike parking racks
 - Mounting of cycle path signage
 - Population survey
 - Organising cycle touring days



Großschönau (NÖ)	
Size	41.95 km ²
Res.	1,212



OPTIMIZE SPATIAL DEVELOPMENT TO MINIMIZE MOTORIZED TRANSPORT

KRUMMNUSSBAUM



- Process „**Krummnussbaum 2025**“
- **Public participation:** possibility for requests, high acceptance
- Focus&Objectives:
 - **Reducing vacancy** in the city centre and **avoid urban sprawl:**
 - Concentration of future built-up area around the centre
 - New community centre with multifunctional hall
 - Local suppliers in the city centre
 - Social infrastructure in the city centre
 - Promoting **walking, cycling and public transport**

Krummnußbaum (NÖ)	
Size	10.03 km ²
Res.	1,491



OPTIMIZE SPATIAL DEVELOPMENT TO MINIMIZE MOTORIZED TRANSPORT

KRUMMNUSSBAUM

- Winner of Climate Protection Award 2017
(category municipalities®ions)

- Selected for a short film in 2016:

[Klimaaktiv mobil -](#)

[Verkehrssparende Siedlungsentwicklung in der Gemeinde Krummnußbaum](#)



Quelle: ORF/Thomas Jantzen



klimaaktiv mobil is the National Action Programme for Mobility Management to reduce CO₂ emissions and to promote environmentally friendly and energy efficient mobility. It provides a national framework to motivate and support companies and public services, cities, municipalities and regions, leisure and tourism operators, construction companies and real estate developers, schools and youth groups to develop and implement measures to reduce CO₂ emissions from related transport activities.

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