Eco-driving
Austrian eco-driver training campaigns and EU Ecowill project
Robin Krutak, Austrian Energy Agency
What is Ecodriving?

- Also known as ‘modern driving’ or ‘smarter driving’
- Safe and smart style of driving
- More energy-efficient vehicle procurement
- Technology based, supports modern engine technology
- Narrowing the gap between real world and test cycle results
Positive Effects of Ecodriving

- Average decrease in fuel consumption and CO₂ emissions by 5-20%
- Reduced noise (due to lower revs)
- Positive effects on traffic safety: up to 40% fewer accidents
- Lower maintenance costs (e.g. brakes, tyres)
- Less stress (less shifting gears, less braking)
The ‘Golden Rules’ of Ecodriving

- Shift up early (at low revs)
  - cars at approx. 2,000 rpm
  - you may skip gears

- Anticipate traffic flow (try to avoid braking)

- Maintain a steady speed at low RPM

- Check tyre pressures frequently

- Use air conditioning and electrical equipment wisely
The ‘Silver Rules’ of Ecodriving

- Drive-off immediately after starting the engine; do not warm up the engine by idling
- Switch-off the engine at longer stops
- Close windows when driving at higher speeds
- Make use of fuel saving in-car devices (revolution counter, on-board computer, cruise control)
- Fuel-saving starts with choosing a low-emission car
- Avoid short car trips and consider alternative means of transport
Ecodriving Program Austria

- Started in 2004 by the Ministry for Environment
- Ecodriving is integral part of the national strategies on energy and climate protection
- Program of klima:aktiv mobil, operated by Austrian Energy Agency, contracted by Ministry for Environment
- Potential fuel savings 5%:
  - 400,000 tons of CO2 p.a.
  - 170 Mio litres diesel p.a.
Trainers & Training

- Handbook and train-the-trainers-seminars:
  - passenger cars
  - trucks & busses
  - tractors

- Train the trainers:
  - driving schools and automobile clubs
  - 2 day train the trainer seminar
  - 450 passenger car
  - 280 truck/bus
  - 79 tractor trainers

- Ecodriving training:
  - one day training
  - 8-12 participants
  - 2-3 trainers
  - theory and practical part!
# Ecodriving Competitions

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- on average: 30% fuel reduction
- Champions’ fuel consumption: 50% below NEDC fuel consumption figure (New European Driving Cycle)
Driver Licence Education – Ecodriving training

- compulsory training in the final education stage
- 90,000 novice drivers complete an Ecodriving training every year
- 14% fuel reduction on average
- 1% average speed increase
- manual for driving instructors
- DVD for driving schools
Evaluation Ecodriving National Bus Service

- EVALUATION
  - 3 years of monitoring, before and after training
  - training for 2,800 drivers
  - 2,100 busses
- RESULTS (statistical analysis of 56,000 values)
  - - 6,5% fuel consumption
  - - 2 Mio litres diesel p.a.
  - - 7,100 tons CO₂ p.a.
  - € 2,8 Mio fuel costs p.a. saved
18 klima:aktiv mobil driving schools!

roadstars

So findest du zum Übungsplatz und zur Fahrerschule:
EU-project ECOWILL

- 2010-2013
- AEA: coordinator of 13 national partners
- International partners: ACEA, CIECA, EFA, FIA, Ford, Leaseplan
- Focus 1: Ecodriving for learner drivers
- Focus 2: Short duration trainings (~1h) for licensed drivers
ECOWILL – Main Steps

- development and national implementation of standards for ecodriving trainings and trainer education
- Integration of Ecodriving into driving school curricula and driving tests
- Education of driving instructors and establishment of training capacity
- Ecodriving campaigns directed at licensed drivers
- Monitoring of the effectiveness of ecodriving trainings
- Website: www.ecodrive.org
Facts & Figures Austria

- 800 Ecodriving trainers
- 235 fleets were trained
- 20,000 training participants
- 90,000 learner drivers p.a.
- saving of 50,000 tons CO2 p.a.
- ...equals 20 Mio liter diesel p.a.!
Try Ecodriving TODAY!

- start right in front of the conference hall
- ride takes about 30 minutes
- with Russian Driving Instructor and
- Austrian Mastertrainer Günter Schmidt!
- Car: Volvo C30
- Concentrate only on 2-3 golden rules
- training today is for free!
- make reservation for guaranteed starting time!
- From today, you save fuel and money!
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