



ECODrive

Hospodárně a bezpečně na silnici

DRIVER TRAINING

Results of GreenPlan driver training organized by LeasePlan

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PROJECT INTRODUCTION

- **„ECODrive – Economically and safely on the road“**
is an independent product of CE Solutions, s.r.o.
- **GOAL:** To solve effectively unpleasant situation on the roads through public education and driver training
 - » Key role is individual driver training focused on improving of driver skills like foresight, defensive approach and tolerancy. Reducing of fuel consumption and decreasing of environment impacts are linked effects.

PROJECT INTRODUCTION

- Complex programme as a follow up of a regular driving school
„Where driving schools end, ECODrive trainings start“
- Education continuity of ECODrive absolvents is ensured by distributing to all of our new published documents
- Road safety and traffic accident topics are processed in cooperation with the Czech Ministry of Transportation, BESIP department, from June 2008

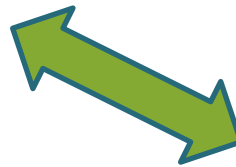
PROJECT INTRODUCTION

- ECODrive trainings do not substitute brand company trainings of some vehicle manufacturers
- Main principles of economic and safety driving skills are intensified and strengthened in the way to drive motor vehicles **more ecologically, economically and safely.**
- Trainings are available for all types of driving licence and in various levels (theoretical, practical, intensive, supporting drive etc.)

ACTIVE COOPERATION



GreenPlan



GREENPLAN PROJECT

GreenPlan

- **Global initiative of LeasePlan company**
- **Goal:** Increase of customer interest in decreasing negative impacts of motor vehicles to the environment

Implementation of integral approach of the EU middle term strategy in decreasing of road transport CO₂ emission

ACTION PLAN

- Company fleet **emission monitoring** and specification of CO₂ footprint
- **Benchmarking** and comparing of measured CO₂ emission with selected reference level by energetic marking
- **Embracing of emission reduction steps** which abatement costs are minimal

ACTION PLAN

- **Optimization of CO₂ emissions by:**
 - preference of **energetic friendly** vehicles
 - preference of **low emission vehicles**
 - possibility to use **environment friendly fuel** (e.g. CNG)
 - **operation quality and fleet maintenance improving** (economic and defensive driving style, use of route planners, elimination of useless trips)
 - **support of offset activities** causing emission reduction by indirect way (ecologic transport types, tree planting, education programmes)
- **Regular goal evaluation**

ACTIVITIES EVALUATION

- GreenPlan programme is the first Czech complex initiative of integral approach in using of company fleets
- Programme implements procedures which realization is suggested by national Action plan of energetic effectiveness based on Regulation 2006/32/EC of automotive transport
- GreenPlan is one Czech activity with direct link to „Looking for A-class driver“ campaign

WWW.ECODRIVE.ORG / WWW.USPORNAJIZDA.CZ

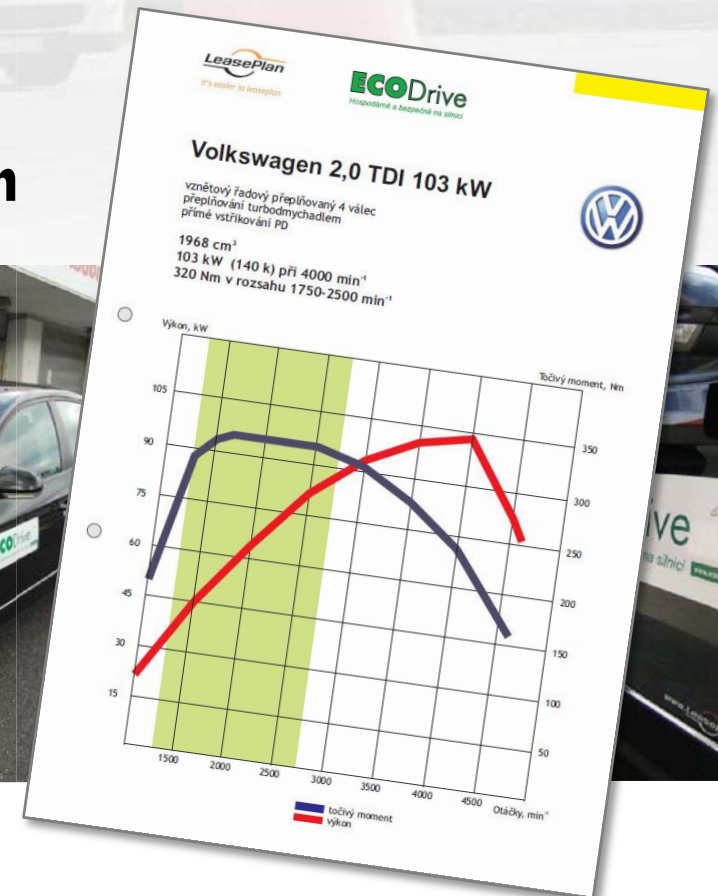
LEASEPLAN DRIVER TRAINING RESULTS

Place: Autodrom Most

Vehicle: VW Passat 2,0 TDI 4Motion, 103 kW

2005, mileage: 132 000 km

Circuit: race circuit, length 3,7 km



LEASEPLAN DRIVER TRAINING RESULTS

	DRIVING TIME	AVERAGE REVS	AVERAGE SPEED	AVERAGE FUEL CONS.	TOTAL CO ₂	GEAR CHANGINGS
DRIVER A ROUND 1	4 min 15 s	1766 min ⁻¹	52,4 km/h	7,94 l/100 km	0,772 kg	22
DRIVER A ROUND 2	4 min 45 s	1332 min ⁻¹	46,8 km/h	5,36 l/100 km	0,520 kg	23
ABS. RES.	+ 46 s	- 434 min⁻¹	- 5,6 km/h	- 2,58 l/100 km	- 0,252 kg	+ 1
% RES	+ 10,5 %	- 32,5 %	- 12 %	- 48 %	- 48 %	+ 4 %
DRIVER B ROUND 1	3 min 47 s	1878 min ⁻¹	57,5 km/h	7,88 l/100 km	0,753 kg	23
DRIVER B ROUND 2	4 min 45 s	1500 min ⁻¹	58,8 km/h	6,38 l/100 km	0,614 kg	25
ABS. RES.	- 2 s	- 378 min⁻¹	+ 1,3 km/h	- 1,5 l/100 km	- 0,139 kg	+ 2
% RES	- 1 %	- 25 %	+ 2,2 %	- 23,5 %	- 22,5 %	+ 8 %

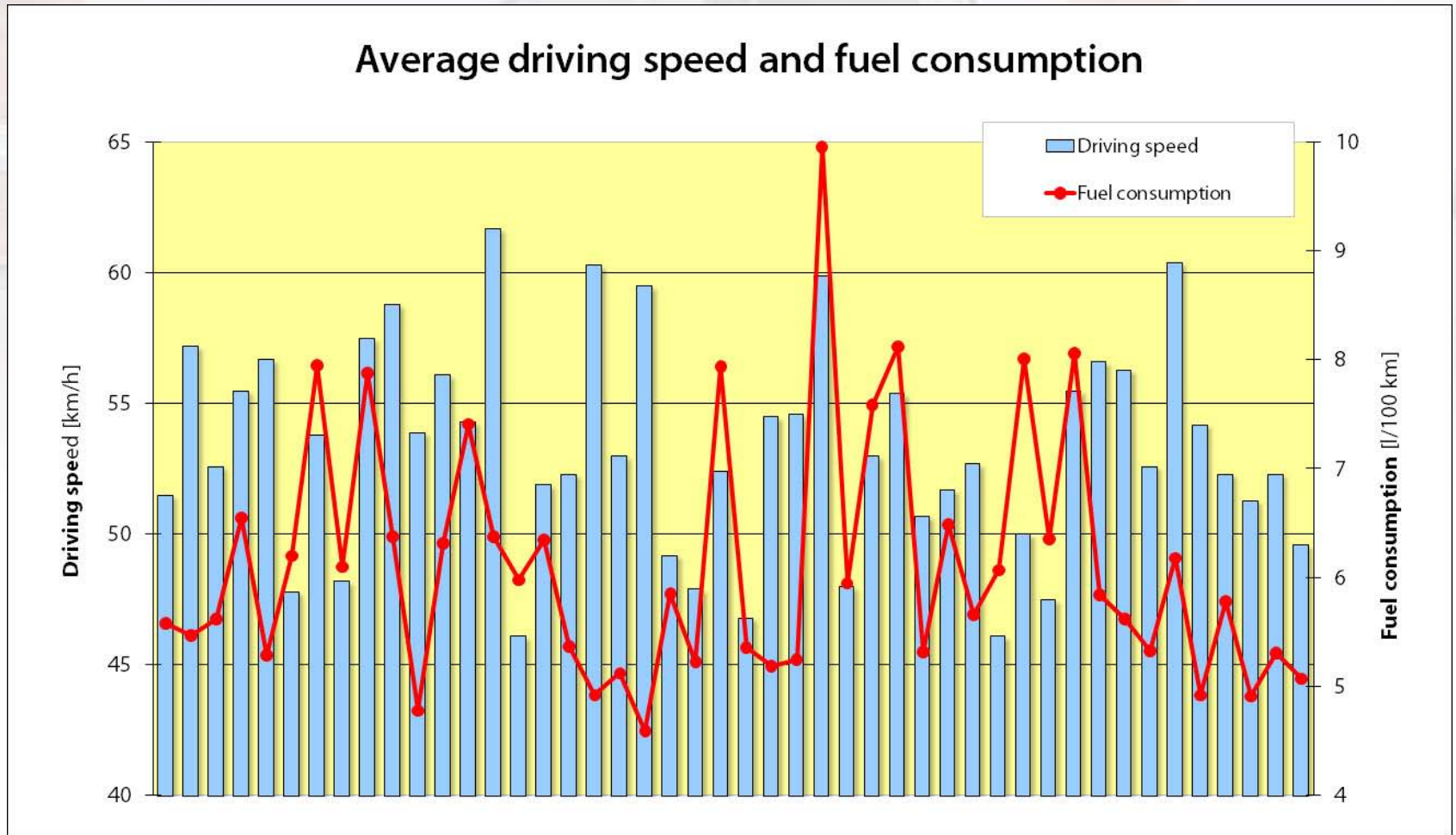
LEASEPLAN DRIVER TRAINING RESULTS

	DRIVING TIME	AVERAGE REVS	AVERAGE SPEED	AVERAGE FUEL CONS.	TOTAL CO ₂	GEAR CHANGINGS
THE WORST RESULT	3 min 43 s	2170 min ⁻¹	59,9 km/h	9,96 l/100 km	0,967 kg	19
AFTER TRAINING	4 min 37 s	1419 min ⁻¹	48,0 km/h	5,95 l/100 km	0,578 kg	19
1st BEST	3 min 46 s	1124 min ⁻¹	59,5 km/h	4,59 l/100 km	0,449 kg	21
2nd BEST	4 min 7 s	1296 min ⁻¹	53,9 km/h	4,78 l/100 km	0,465 kg	17
3rd BEST	3 min 40 s	1233 min ⁻¹	60,3 km/h	4,92 l/100 km	0,477 kg	15

OVERALL TRAINING DAY RESULTS (total 46 drives)

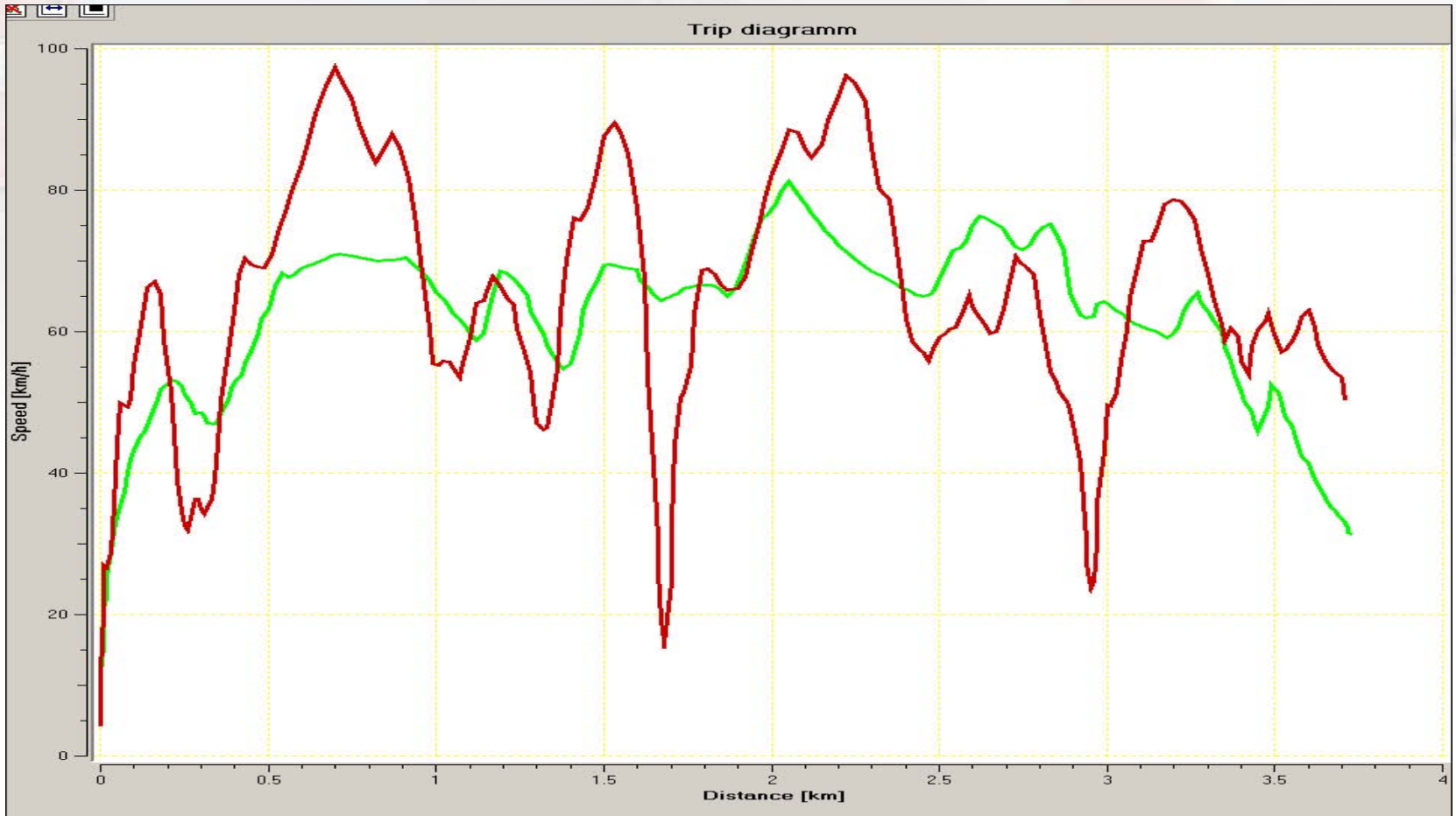
average fuel consumption	31,8 % reduction
total CO ₂ emission	31,3 % reduction
average engine speed	27,3 % reduction
average speed	4,9 % reduction

DRIVER TRAINING RESULTS



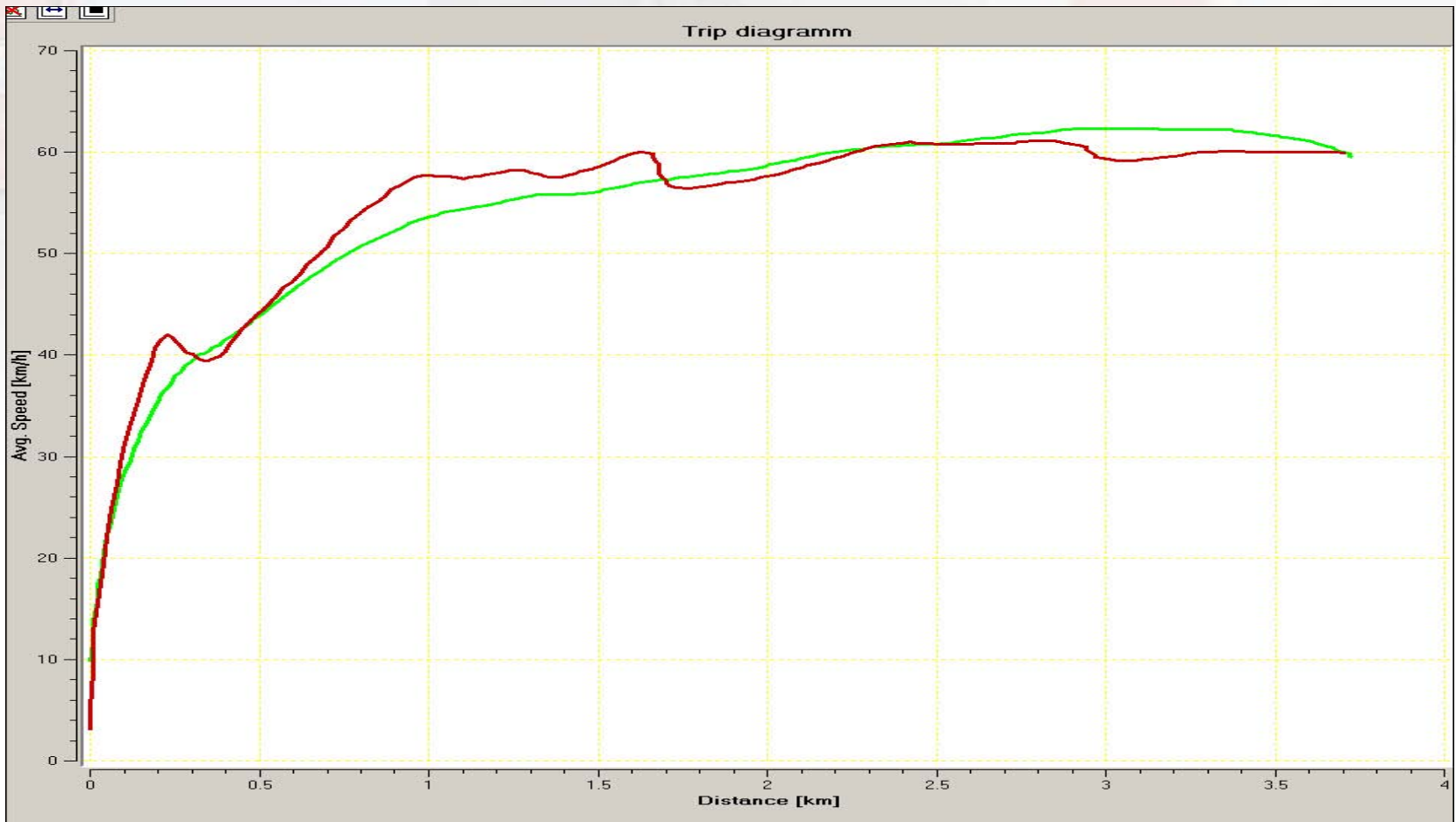
DRIVER TRAINING RESULTS

Driving speed



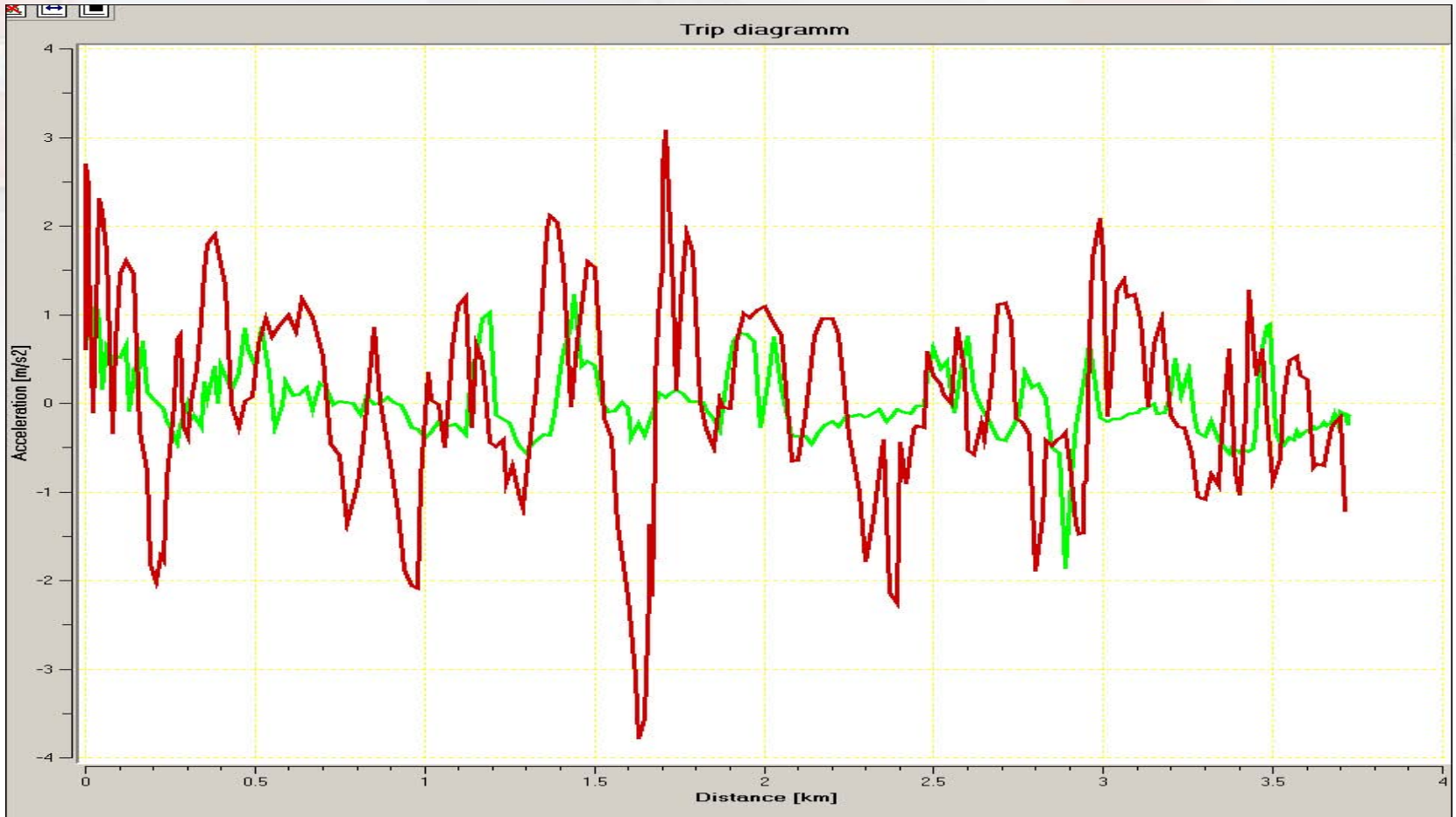
DRIVER TRAINING RESULTS

Average speed



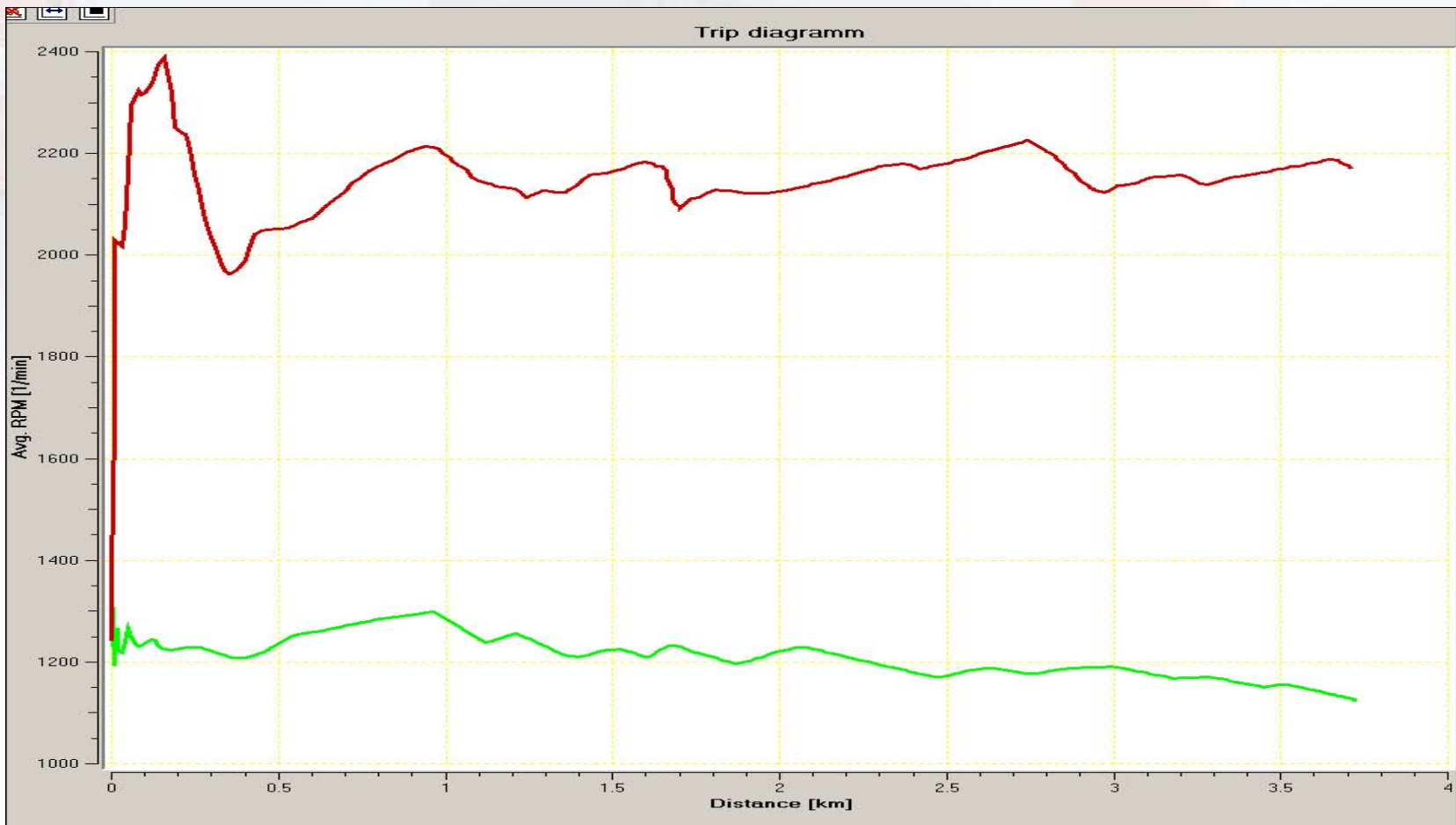
DRIVER TRAINING RESULTS

Acceleration and braking



DRIVER TRAINING RESULTS

Engine speed



FINANCIAL EFFECT OF TRAINING

Year mileage	Reduction of average fuel consumption by X l/100 km					
	0,5	1,0	1,5	2,0	2,5	3,0
10 000 km	55 €	110 €	165 €	220 €	275 €	330 €
15 000 km	83 €	165 €	248 €	330 €	413 €	495 €
20 000 km	110 €	220 €	330 €	440 €	550 €	660 €
30 000 km	165 €	330 €	495 €	660 €	825 €	990 €
40 000 km	220 €	440 €	660 €	880 €	1100 €	1320 €
50 000 km	275 €	550 €	825 €	1100 €	1375 €	1650 €

Calculated for personal vehicles with an average fuel price 1,10 € / liter

ECODRIVE TRAINING EFFECTS

- 1. Lower fuel consumption = reduction of direct costs**
- 2. Lower vehicle maintenance cost**
- 3. Same or higher average speed**
- 4. Minimal time and money losses by traffic accidents**
- 5. Motivated and low-stressed drivers**
- 6. Sureness and safety while driving**
- 7. Environment contribution**