Sustainable mobility on EPFL campus

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Swiss academic landscape

ETHZ and EPFL: Federal schools, akin to UC System

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2005 Figures

1. Electricity: 44 GWh
3. Heating: 27 GWh

Road travel
EPFL vehicles & business trips: 796’000 km
of which EPFL fleet drove 450’000,
… burning 42’000 litres fuel
EPFL mobility actions

User behaviour
RUMBA mobility observatory

Access to campus
• Improved public transport timetable
• Free half-fare rail card
• More bicycle racks + “bike-to-work” action

Business mobility
• Car sharing system (implemented: 2004)
  10 vehicles - 50% dedicated to EPFL.

EPFL Mobility

40 GWh / year … 8’500 tons CO2
of which more than 5’500 tons from private motoring
(heating: 1’300 tons / year)
1.1 EPFL Access modal split

30% private mobility -> oil-powered
54% public transport -> electricity-powered
16% self-powered

Source: Observatoire Mobilité, 2007

1.2 Staff vs. students

Staff mainly drive cars: 55% Women - 40% Men

Students move more sustainably: 87% Women – 84% Men

Source: Observatoire Mobilité, EPFL, 2007
Coordination with Public Transport Operation

2006: new class schedule to decrease morning peak

![Graph showing UNIL and EPFL arrivals]

2005: EPFL and Unil start at 8:15 am
2006: EPFL at 8:15 am / Unil at 8:30 am

EPFL modal split evolution

![Graph showing modal split evolution]

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Adapted from: Observatoire Mobilité, EPFL, 2007
Results of EPFL mobility actions

User behaviour
RUMBA mobility observatory: diagnosis tool

Access to campus
• New metro timetable: more convenient travel
• 160 new bicycle places => room for 600 bicycles
• “bike-to-work”: 450 participants at EPFL
• Half-fare rail card. above 50% access by public transport

Business mobility
• Car sharing system used by all faculties
• EPFL fleet reduced by 66%
• Users are satisfied
• Maintenance and fuel costs (03-05) – 23% => CHF 300’000.- saved
• Fuel savings (03-05) -22% => 25’000 litres saved

Next steps: campus densification

Mobility Plan - under construction
Further improve public transport, increase safety on site, negotiations about implicit subsidy to car parking (fee: 10 €/month)

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Learning Center
Conference Center
Students housing
Hotel
Innovation Square