FOLKETINGET



Trafikudvalget

Til:

Udvalgets medlemmer og stedfortrædere

Dato:

15. januar 2010

Meddelelse om materiale.

Vedlagt fremsendes materiale om begrænsning af emissioner fra transportsektoren, udleveret af John Wester ved foretrædet den 14. januar 2010.

Med venlig hilsen

Aicha Esdam, udvalgsassistent

European Commission

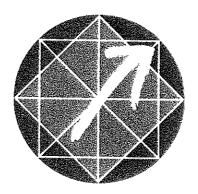


THE FIFTH FRAMEWORK PROGRAMME

The Fifth Framework Programme focuses on Community

Activities in the field of research, technological development
and demonstration (RTD) for the period 1998 to 2002

WORK PROGRAMME



COMPETITIVE and SUSTAINABLE GROWTH

TRAFIC & ENVIRONMENT EUROPEAN INFRASTRUCTURE CITY-VENTILATION

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Clinton-National Geographic

The President of United States Bill Clinton, made it clear in a speech on the National Geographic Channel, that American scientists now declare there is no scientific proof or documentation that CO2 has any impact on the environment and also the discovery that the so-called "holes" in the ozone layer now are closing up again.

City Ventilation & Satelitetools

The good experience form U.S.A. and parts of Europe should be incorporated in the European Infrastructure when it comes to trafficregulations.

Unnecessary stop in and out the city roads, ring-roads etc. must be eliminated. Local politician's must be responsible for the city-environment and that the traffic is moving, satellites can be used as a control and steering system for computers. In any city improvement of the environment and better ventilation of traffic can be made and without big investments.

Priority-Roads/ Ring Roads

In a number of European city's no coordination of traffic can be found, and many unnecessary stops of thousands of tons of traffic, again and again, will be the daily picture and very bad for the environment. The very bad coordination and non-synchronized traffic lights has a direct impact on emissions where un-burned particles from Diesel & Petrol engines simply creates smog in the city environment — the stop start situations will increase this problem by several hundred %. The management will be as much as possible to keep a curtain march speed trough the city ringroads etc. where emissions nearly cant be measured. Also in various city's people will be living near the roads and the noise level comming from repeated stop/start traffic can be reduced to a much higher extend as another improvement of better local environment. The local technicians in the community are responsible that such changes here will be made.

Open up-traffic lights

Pollution reduced by minimum 50%

In Europe conversion of traffic lights into establishment of "roundabouts" is the important creation of better ventilation and better environment also <u>allowed</u> turning to "the right" by red light is a more flexible and secure traffic regulation, here the unnecessary stop situation and waiting time, creating pollution and emission of un-burned particles can be eliminated.

General allowed turning to the right can be practised with success, the security for other traffic will be increased even for bicycles, at the same time the right lane will be available for ambulances, police when an important and quick turn-out situation occur. The ambulance will be able to continue without being blocked cause waiting traffic.

...../2

2.

With the open right lane and the individual traffic-unit - the time on the road will be less between destination A & B meaning less burning of fuel and less consumption and less release of unburned particles.

The positive experience from U.S.A and parts of Europe - even former eastern Germany, must be taken into practise. The open traffic lights and allowed "Right Turn" is a success, now followed with converted "Yellow light" after 22.00 PM hours in U.S.A. states to "cut down" waiting time and pollution. The yellow light makes it possible to pass the traffic light and continue crossing.

Cars/Collective traffic

The environmental status of the Car seems to be really improved over the last decade to an extend where the individual car as a unit becomes cleaner and cleaner, within a few years the car consider to be the cleanest transport with less damage to the environment. On the opposite very bad problems follows the build up of collective traffic like buses and trains where the emissions of NOx nitrogen in the environment creates lung cancer. By check up one (1) bus estimated pollutes more than 90 private cars.

Professor Herman Autrup, University Of Aarhus, Denmark, directly claim a reduction and a complete stop of the collective traffic for environmental reasons, after closely studies of the problems in this area.

Light distillates

The light distillates and the burning of Diesel Fuel or Gasoil in the high number of busses and trains creates a chemical problem with the emissions of NOx the problems here - are much more serious than the claimed CO2 and much more serious than discovered in the first round.

Injection System/Catalysed

SAAB presentation in London made quite an impression. The Swedish Car-manufactory SAAB introduced a new injector and engine model. The demonstration set up in London showed that the intake air from the city was more polluted, than the emissions released from the car, the test was completed when a test person for some time was inhaling the emissions without any inconvenience. Also the development of the catalysed system is a beginning in the right direction however the upgrading of the catalysed system is still under development and more continues research being done.

Commercially all car-manufactures are interested in updating environmentally properties on each car it is convincing being a good investment and a better sales argument.

Petrol/Gasoline

In the refineries the crude oil passes cracking processes to achieve a higher volume of Petrol per tons of crude oil however trough refinery processes and by additives the Petrol or Gasoline quality is environmentally better today also the fact that the unleaded Petrol now is introduced on the European market is an improver to better environment.

Environmental experience

Specially in California, Santa Ana Valley as an example, the problems with "smog" from the leaded-Gasoline in 1960–1975 was a serious problem the visibility in the Valley was = 0. Today where the increased number of car-units passes the Valley, visibility conditions are excellent for two reasons, the development of unleaded Gasoline and the catalysator.

Higher Speed - Environmental advance.

The very limited inconvenience to the environment in Germany compared to the very high volume of traffic-units, relates to the higher march-speed and the high speed on motorways where the speed per unit average from 100 to more than 200 km per hrs the emissions and the number of unburned particles in the environment is difficult to measure and extremely low. These environmental problems will mostly occur in the city's and again from the stop/start situations.

In other words the basic ideas with establishment of the motorways as a secured route-net and the allowed higher speed, is actually better from the environmental point of View.

RESUME: IMPROVEMENT OF LIFE QUALITY IN EUROPE

- 1. Reduction of "stop start" situations in connection to traffic-lights in urban regions around city ring roads priority roads etc. and establishment of more round-about,s"!
- 2. Reduction of "waiting time" allowed "right turn" at red light (or by permanent "green arrow") at the same time higher security for bi-cycles.
- 3. Overall cut-down in "driving time" from destination A to B reduced consumption of fuel and pollution.
- 4. Better synchronised traffic lights "green waves" better ventilation of traffic abandoned unnecessary stop of tons of traffic.
- 5. Yellow traffic lights at late hours.
- 6. Better traffic release from City centres better signs to show the way out!
- 7. Environmental responsibility in any community management and among politicians and technicians concerning better ventilation of traffic.

cc. English version headlines

J. Wester, Petro Chem Engineer Secretariat London Environmental Group EU Implementation of flexibility in Germany. Elimination of stop/start situations Reductions of unnecessary waiting time, Fuel consumption & CO2 Reduction of Fuel consumption.

Legal right turn at red traffic light.



Til højre for rødt

lkke alt i det tidligere DDR har vist sig uanvendeligt. F.eks. vil det genforenede Tyskland overtage en lærdselsregel, som tillader, at man drejer til højre, selvom der er rødt lys. Det var i DDR tilkendegivet ved et lille blik-skilt med en grøn pil fastgjort til lyskurven. Den nye «grønne pil«, som ventes indført i hele Tyskland til næste år, får formentlig en mere højteknologisk udformning, men meningen er den samme. Det tyske trafikministerium har undersøgt fordele og ulemper ved systemet og fundet, at trafikken glider lettere og at uheldsrisikoen er minimal. I DDR indtraf kun en promitle af alle uheld i forbindelse med højresving for rødt lys. Den frie højredrejning er i øvrigt helt uden ideologisk indhold. I USA praktiseres samme regel uden problemer.

AKTUELT TESTKØRSEL – FORURENINGS SITUATIONER.

Århus, Indre Ringvej. Distance 8 km. I alt 17 lyskryds. Ingen synkronisering.

Århus, Ydre Ringvej. Retning: Hasselager-Viby-Åbyhøj-Hasle-Randerskryds-Grenåkryds-Grenåvej.

Distance 17 km.

I alt 25 lyskryds. Ingen synkronisering.

Trafik tæthed: Dagtimerne Estimeret vægt/køretøjer: 50-100.000 kilo. Gentagne stop/start situationer.

Århus, Indre Ringvej	
1	pass
2	40 sec.
3	40 sec.
4	pass
5	pass
6	40 sec.
7	40 sec.
8	40 sec.
9	pass
10	40 sec.
11	pass
12	40 sec.
13	40 sec.
14	pass
15	50 sec.
16	40 sec.
17	40 sec.

Århus, Ydre Ringvej	
1	30 sec.
2	40 sec.
3	pass
4	pass
5	30 sec.
6	20 sec.
7	40 sec.
8	pass
9	30 sec.
10	pass
11	30 sec.
12	pass
13	50 sec.
14	pass
15	60 sec.
16	pass
17	50 sec.
18	40 sec.
19	40 sec.
20	pass
21	40 sec.
22	pass
23	pass
24	50 sec.
25	pass

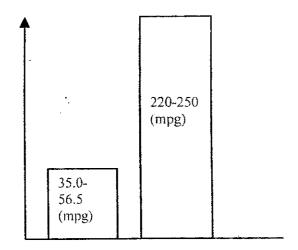
^{*} Ventetider ved rødt lys anført i sekunder.

Sammenligning af miljøbelastning (Fuel consumption, miles per gallon (mpg) og CO₂) ved "GREEN WAVES" og "STOP-START" situationer.

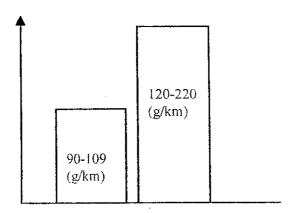
Ringvejssystemer Aarhus området.

Test distance Ydre Ringvej - 18 km. Testdistance Indre Ringvej - 8km.

FUEL CONSUMPTION (mpg)



CO₂(g/km)



24 Januar 2007: Vedtaget europæiske målsætning vil være at CO2 er på max niveau på 120g/km.

()

*** Mandag den 22. november 1999 · Uge 47

Danmarks internationale avis

Af LARS FROM

- og miljøet få det langt bedre hvis lyskrydsene i byerne enten styres via computer - eller Bilisterne kan spare flere hundrede millioner kroner om året erstaties af rundkørsler, vurderer Vejdirektoratet.

rektoralet koater stop for rødt lys hvert år bilisterné næsten tre milliarder kroner i tab af tid og spildt Holge nye beregninger fra Vejdi-

benzin - ligesom de mange stop og starter er årsag til hovedparten af spare 10-20 procent alene ved at lave »Vores erfaringer viser, at man kan forureningen fra bilerne i byeme.

computerberegnede grønne bolger," udser endnu større besparelser, hvis man benytter mere avanceret comforklarer civilingenior Steen Lauritzen fra Vejdirektoratet. Og han forputerteknologi

Spild at benzin

Holge Stean Lauritzens beregnmger bruger bilisterne hvert ar 130

millioner liter benzin på at stoppe og en kruftig belastning af miljoet.
 Og så er hverken slitage på bilerne eller belastningen af miljoet med i kring en milliard kroner, Dertil kommer tab af tid, slitage på bilerne for rodt lys - hvilket koster dem omregnestykket.

don Environmental Group for nylig London har tænketanken Lonsionen, der pager i summe retning, En række højt placerede persener fra Londons erhvervshy og unwerse. afleveret et forslag til EU-Kommisteter foreslär blandt andet, at der

at dreje til højre ved rødt lys - som gesom de mener, det bør være tilladt etableres langt flere rundkørsler, lidet er tilfældet i f. eks. USA.

EU-Kommissionen har modtaget forslaget positivt, og FDM i Dan-mark bakker fuldt op. I Vejdirektoratet er man positive over for flere rundkorsler, men skeptiske over for ideen om at lade bilisterne kore over for rodt lys. Til gengæld tyder alt på, tallet af trafikdræbte til at falde at flere rundkorsler også vil få an-

1. SEKTION, SIDE 2

markant

Indiand

Jyllands-Posten

både miljoet og oger Rundkørsler gavner trafiksikkerheden.

fiere rundkorsler.

Af LARS FROM THAFIK

bilerne.

Antallet af dræbte og tilskadekomne i vejkryds falmed en rundkorsel, viser der med 80-90 procent, når et vejkryds bliver erstattet tal fra Veidirektoratet.

relser og store miljogevin-Men ifolge nye beregninger, er der ögså håde bespaster at hente ved at bygge

Derfor er der meget, der taler for at anvende rundlerrsler i langt storre omfang end i dag." Rundkorsler får nemlig trafikken til at glide langt bedre end i lyskryds - hvil-

Vejdirektoratets undersogeiser falder antailet af tilskadekomne i gennår der bliver etableret en kryds. Faldet er storst på landet, hvor 90 pet. færre kommer til skade, mens det nemsnit med 85 procent. rundkursel i et farligt vej-Holge I dag findes mellem 300 og 500 rundkørsler i Danmark. Men det burde være ket betyder mindre spild af urening og mindre slid på Gaardbo fra Vejdirektoralangt flere, mener civilintid og benzin, mindre for-Moller

er på 64 pct. i byerne. I EU-kommissionen har et forslag fra tænketanken Group vakt interesse. Lon-**Environmental** London

> "Rundkørsfer er en utrolig effektiv måde at forbedulykkesbelastningen.

Anders

genior

don Environmental Group, der består af en række fremtrædende felk fra ersler i Europa samt at tillade har foreslået kommissionen at etablere flere tundkorbilisterne at svinge til bojre for rock lys - forst og fremmest for at sikre et bedre hvervsliv og universiteter, milje, fortæller den danske

at nedbremsning og opstart er skyld i hovedparten af forureningen fra bilerne i "Alle undersøgelser viser. byerne. Derfor handler vo-

er medlem af gruppen:

res forslag forst og frommest om at få trafikker til at glide bedre, siger John Wester,

toratet bekræfter, at der er Og nye tal fra Vejdirekvilingenior Steen Lauritzen fra Veidirektoratet hur Neregnet, hvor meget de mange stop for rodt lys koster store gevinster at hente. Cibilisterne og samfundet:

millioner liter benzin af i at der bliver brændt 130 forbindelse med stop for rødt lys, fordi bilerne skal holde med motoren i tom-"Mine beregninger viser, direktør John Wester, der

gang og bagefter accelere. re Det svare, til en udgift på emkring en milliard

hverken medreguer slita-gen på bilerne eller belastningen af miljoet, viser, at ring af lyskrydsene kunne spare hilisterne for 10-20 liuly for at opini on væsentlig miljogevinst i byerne ... n.Alene en computerstyprocent at milliarchadgiften til de mange stop, siger forklarer Steen Lauritzeder er et meget stort poten-"Beregningerne. KIOHET.