

**Biogas** as vehicle fuel - **Market Expansion** to 2020 Air Quality

Contract Number: 019795

ATTITUDE SURVEY OF BIOGAS DRIVERS IN STOCKHOLM

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1. Summary

This survey is a part of the evaluation of the Biogasmax project. The surveys have been carried out on two occasions; from December 2007 to February 2008 and January to March 2009 in Stockholm County. The survey was directed to drivers of biogas vehicles within city and commercial fleets as well as private biogas car owners. It had a total response rate of 64 percent (347 questionnaires) in 2008 and 61 percent (362 questionnaires) in 2009.

In several aspects the respondents report no perceived difference between a biogas car and a conventional car. The exceptions are: emissions, odor, noise, range, acceleration and speed. A majority perceive that emissions and odor are better for a biogas car than its conventional counterpart, while range and acceleration are worse.

In the 2008 survey, almost half of respondents reported that the experience of driving a biogas car had made them more positive to biogas as a vehicle fuel. One year later, slightly more than 60 percent report being more positive. Note that these respondent groups are not identical.

In 2008 only 17 percent were satisfied with the status and useability of the refuelling infrastructure. One year later, the situation improved considerably. Now, more than half of respondents (54 percent) describe themselves as satisfied and only 27 percent are dissatisfied. A majority nevertheless still feel that there are too few refuelling stations. A majority of the respondents would recommend biogas cars to others.

The majority of the drivers of privately owned cars report having purchased a biogas car mainly because of concern for the environment. A second decision criterion in purchasing a biogas car was economic benefits. Company policy is the main reason that company car drivers give for choosing a biogas car. This is followed by environmental concern which is ranked as considerably more important in 2009 compared to 2008.

2. Introduction

2.1. Background

This survey is a part of the evaluation of the Biogasmax project. The survey is directed to drivers of biogas vehicles, within city and commercial fleets as well as to private biogas car owners. The data collection was carried out within Stockholm County in February 2009, and compared with data collected December 2007 to February 2008.

There are 11 public refuelling stations for biogas in Stockholm, and 3 164 biogas cars in the fleet (2008). During 2008 472 new biogas vehicles were sold,, a decrease of about 500 cars compared to 2007. The fleet is comprised mainly of models built by Volvo, Volkswagen, Opel and Mercedes.

2.2. Method

2.2.a. Selection and distribution

This survey is aimed at drivers of biogas vehicles in Stockholm County. The sample consists of drivers within the Stockholm City fleet, private company car drivers and private biogas car owners. An additional respondent group is comprised of drivers of demonstration vehicles partially financed through the project Biogasmax or by KLIMP (the Swedish national climate investment program), as well as a group of drivers that were reached with the help of the gas company Aga.

The drivers of municipal fleet vehicles were reached through contact persons at the respective administrations. Contact information for these persons was provided by the Environment and Health Administration. A total of 150 questionnaires per survey were distributed in this manner. The number of questionnaires sent to each contact person was based on the number of vehicles under their supervision. The Environment and Health Protection Administration also provided WSP with contact information for drivers receivers of financing from Biogasmax and KLIMP. Addresses for the drivers of private sector company cars (180) and privately owned vehicles (150) drivers were obtained from the national motor vehicle registration office. After removal of duplicates, the final sample was comprised of 143 drivers of privately owned vehicles and 132 private sector company car drivers. Aga has distributed 40-50 questionnaires/survey through its own network.

2.2.b. Rate of response

A total of 575 questionnaires were distributed in 2008 and 630 in 2009. Of these, 347 (2008) and 362 (2009) questionnaires were completed and returned, a response rate of 64 and 61 percent respectively that may be considered satisfactory for analytical purposes. Respondents were sent a postcard reminder and a couple of weeks later by a new copy of the questionnaire.

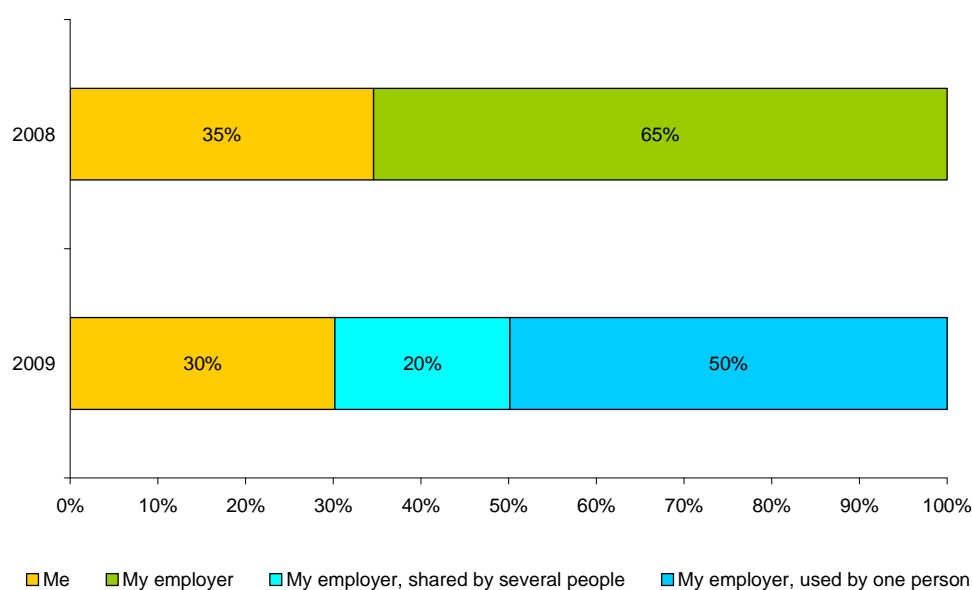
Table 1 Response rate

Group	2008						2009					
	Gross selection	Wrong address	Returned as "surplus"	Net selection	Completed questionnaires	Rate of response	Gross selection	Wrong address	Returned as "surplus"	Net selection	Completed questionnaires	Rate of response
Total	575	10	26	539	347	64%	630	4	29	597	362	61%
Private	143			143	110	77%	150	1		149	107	72%
Company	132		2	130	68	52%	180		2	178	113	63%
AGA contacts	50			50	23	46%	40		7	33	14	42%
Biogasmax	15			15	11	73%	33			33	19	58%
Klimp	85	4	2	79	46	58%	77	3	3	71	27	38%
Municipal	150	6	22	122	89	73%	150		17	133	82	62%

3. The respondents

In total, the distribution according to gender, age and owner is equal in both surveys. The majority of respondents are men (88 percent) and slightly more than half are 46-65 years old. Those younger than 26 or older than 65 are represent only a few percent. A majority (about 70 percent) of the cars are owned by the employer, while the rest are privately owned.

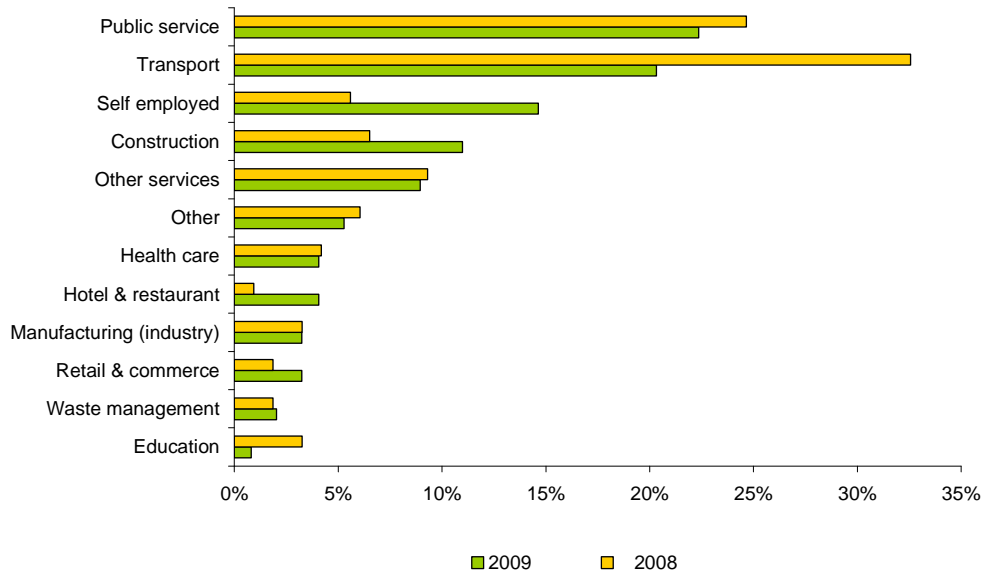
Figure 1 Who owns the biogas car you drive?



Most of the respondents drive a company-owned car. Some private individuals reply that the car is company owned while companies reply that the same car is privately owned. This can be attributed to difficulties in defining boundaries between private and company use of the car, particularly among self-employed respondents.

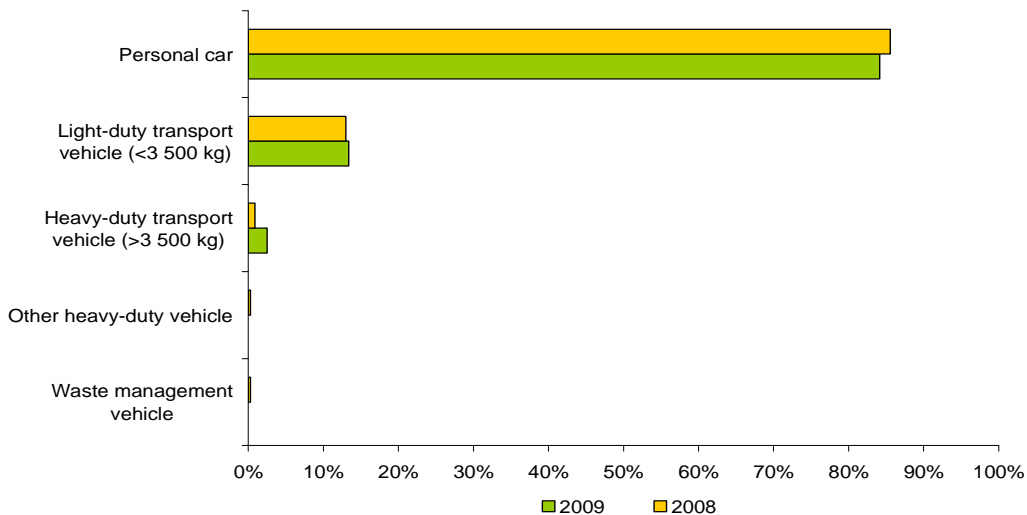
In contrast to the 2008 survey, the 2009 survey included a question regarding whether or not the employer-owned car was shared by several people. About 50 percent use the car alone, while 20 percent share it with others.

Figure 2 In what type of organization are you employed?



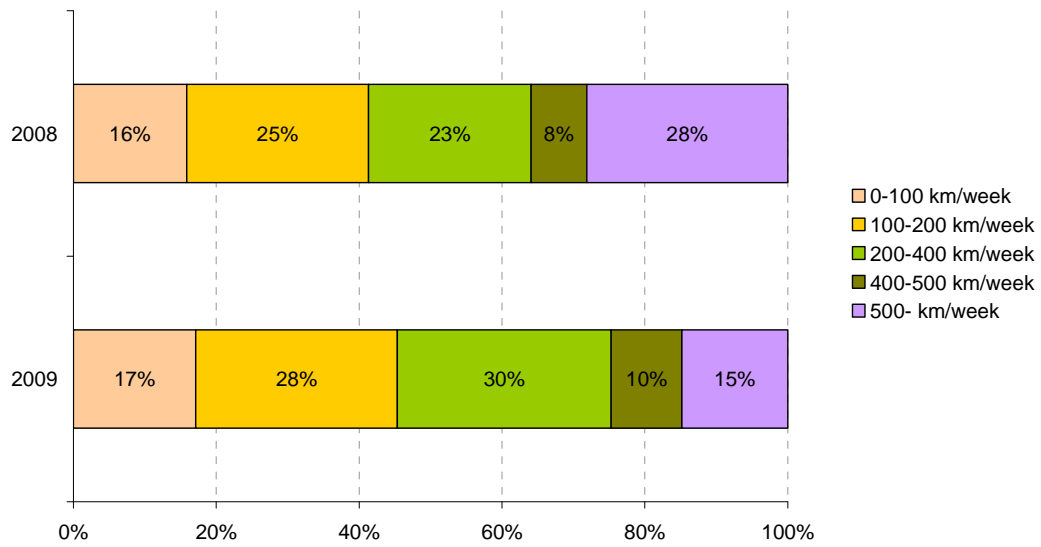
Most respondents are employed within the transport or public service sectors. In the 2009 survey more respondents described themselves as self employed or work within the construction sector and fewer within the transport sector.

Figure 3 What kind of biogas vehicle do you drive?



A majority of respondents drive a personal car. The next most common vehicle is a light-duty vehicle. There are also a small number of drivers of heavy-duty transport vehicles, waste management vehicles and other heavy-duty vehicles, together representing about 2-3 percent of respondents.

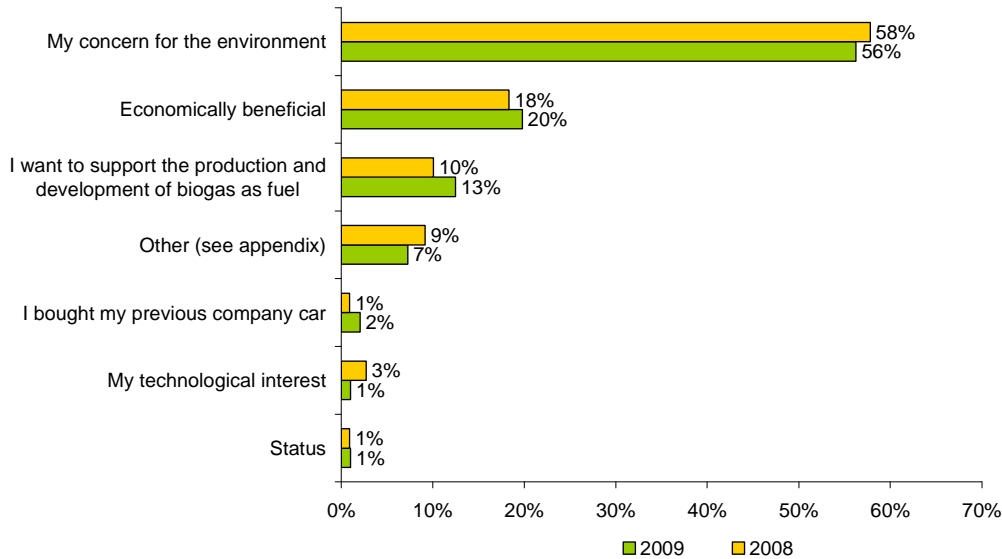
Figure 4 How much on average do you drive a biogas car (km/week)?



The most common distance travelled is 100-400 km per week. In the 2008 survey a larger share reported travelling longer distances (500 km per week or more).

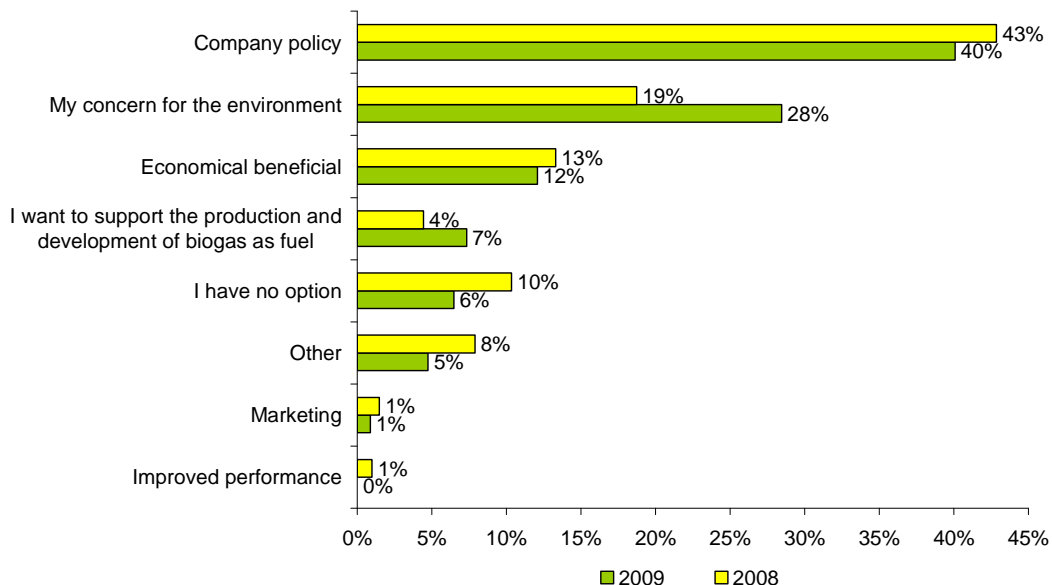
Responses

Figure 5 What was your main reason for purchasing a biogas car? (Question directed to drivers of privately owned cars)



The majority of the drivers of privately owned cars report having purchased a biogas car mainly because of concern for the environment. A second decision criterion in purchasing a biogas car was lower costs compared to a comparable conventional vehicle.

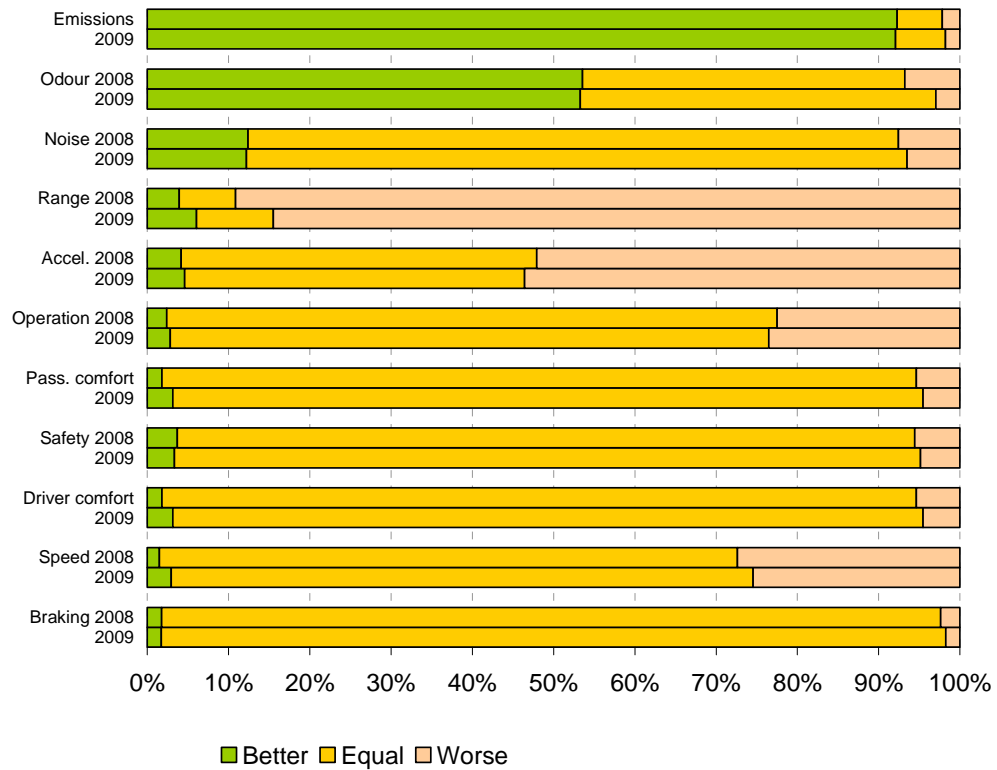
Figure 6 What is your primary reason for driving a biogas car? (Question directed to drivers of company-owned cars)



Most of those driving company owned biogas cite company policy as driving their choice of car. The second most often cited reason is environmental concern which is considerably more important in the 2009 survey than in 2008. Those sharing a company owned car cite concern for the environment as almost as important as company policy.

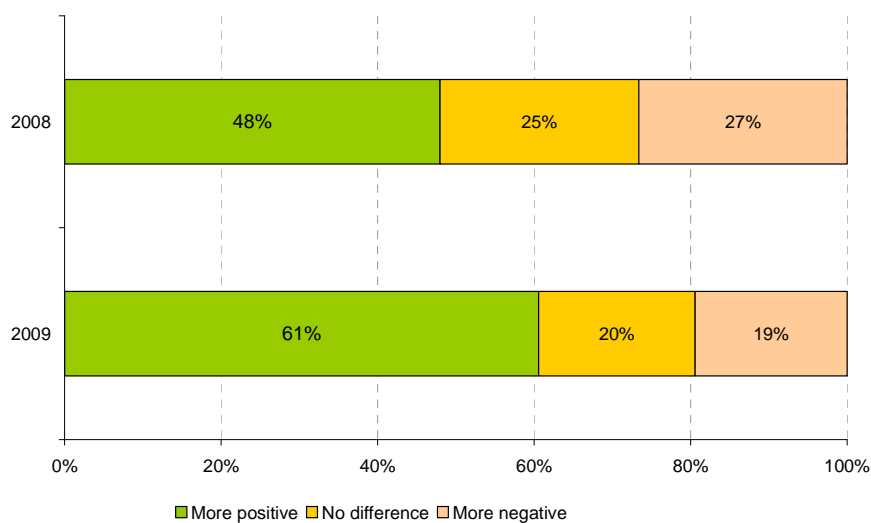
“Economically beneficial” is ranked third. Drivers of company-owned vehicles used by one person were more likely to rank financial benefit as the primary reason for driving a biogas car than were respondents who share the car with others.

Figure 7 In your opinion, is a biogas car worse or better than a conventional car in the following respects:



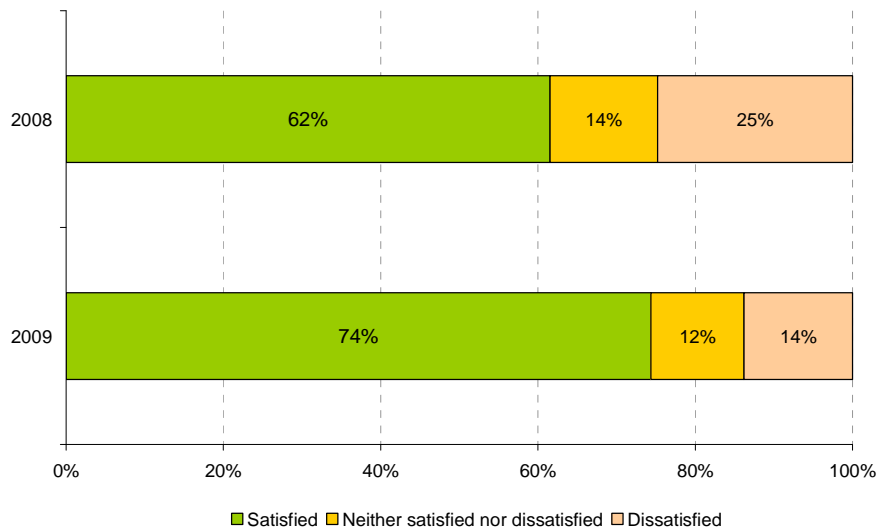
In several respects respondents perceive little or no difference between a biogas car and a conventional car. The exceptions are: emissions, odor, noise, range, acceleration operation and speed. A majority think that emissions and odor better for a biogas car than a conventional car, while range and acceleration are perceived as worse.

Figure 8 Comparing your attitude to biogas cars before you began driving them with your current attitude – you are now:



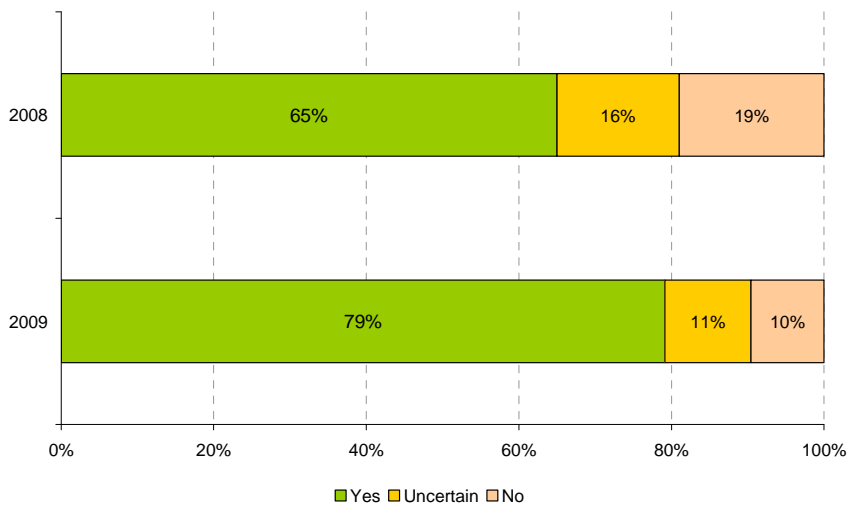
In the 2008 survey were almost half of the respondents more positive to biogas cars when the survey was produced, compared to when they started driving them. One year later, slightly more than 60 percent describe themselves as more positive. The increase in positive attitude between 2008 and 2009 is statistically significant, but there is no information about how respondents perceived biogas cars before they began driving them.

Figure 9 In general, how satisfied or dissatisfied are you with your experience driving a biogas car?



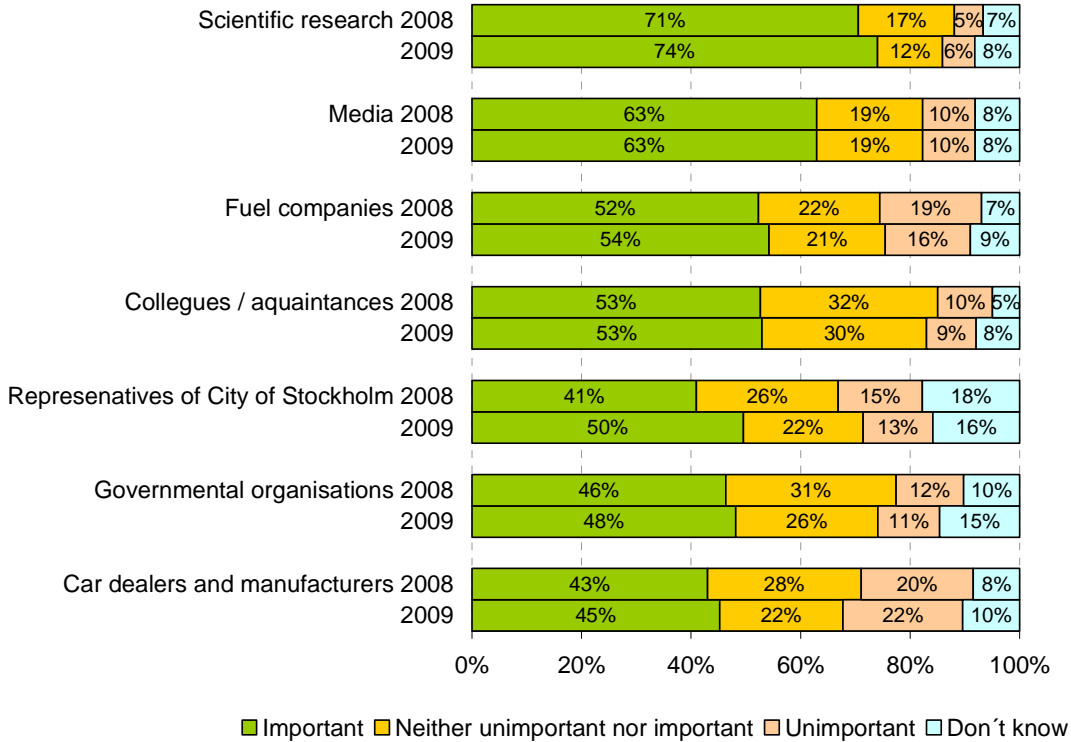
The majority of respondents are satisfied with their experience driving a biogas car. The increase in positive attitude between the two surveys is statistically significant, indicating that efforts to improve vehicle and fuel infrastructure appear to have had an effect.

Figure 10 Would you recommend biogas cars to others?



A majority of the respondents would recommend biogas cars to others. This share has increased from 65 percent to 79 percent between 2008 and 2009. The positive change is statistically significant.

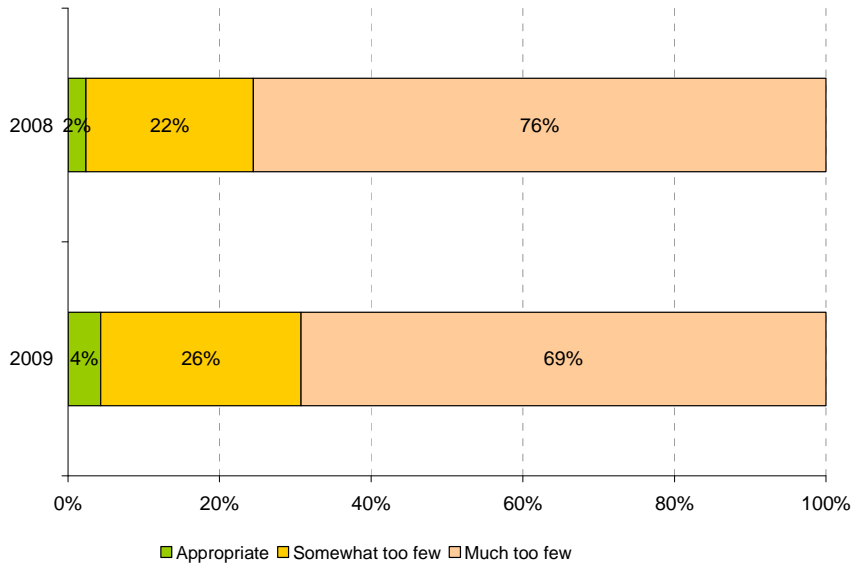
Figure 11 How important are the following sources of information regarding biogas vehicles to you? The seven most important sources.



The respondents were asked to rate different sources of information regarding biogas vehicles from very unimportant to very important. “Scientific research” was rated the most important source (very or rather important), followed by “media”, “fuel companies” and “colleagues/ acquaintances”. The order of rank is almost the same for both years.

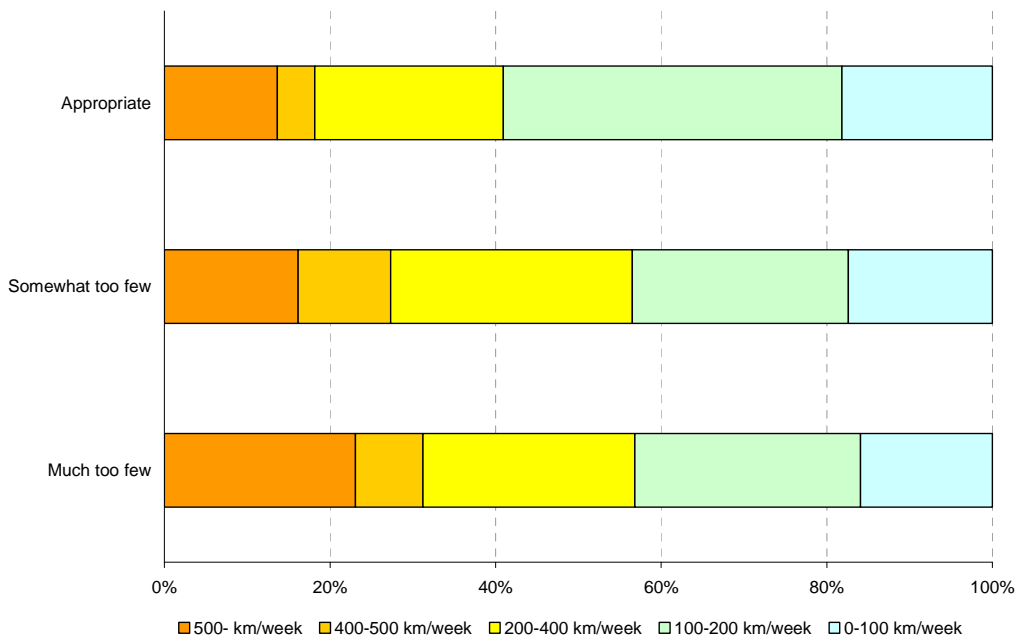
The seven most important sources of information are shown in the figure above. For the complete list, see Appendix I.

Figure 12 Are there enough biogas refueling stations in the city to meet your needs? (ver 1)



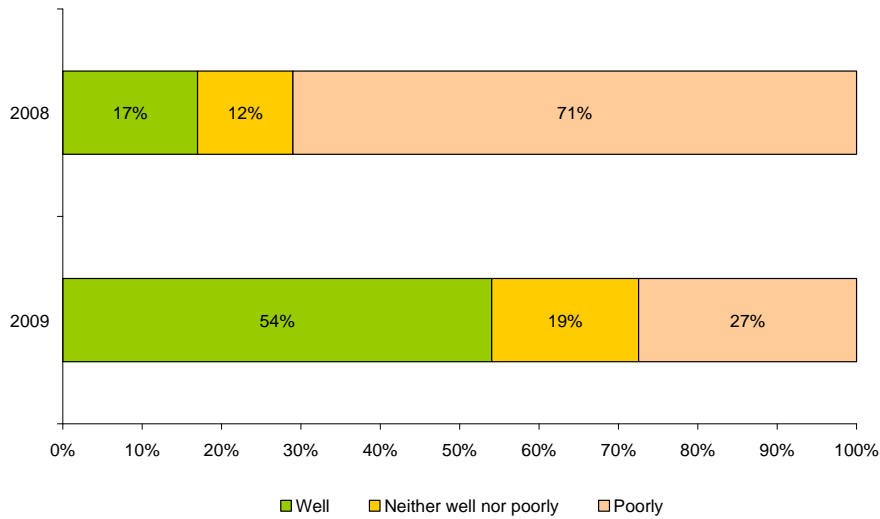
The number of biogas refuelling stations was the same in 2009 as in 2008, but the security of supply has increased considerably, as has the technical reliability. Through the Biogasmax project, a central filling station with LNG backup has been introduced that ensures the supply of gas to the filling stations. This increased reliability may explain why fewer drivers feel that the number of filling stations is "much too few" (See also Figure 14.)

Figure 13 Are there enough biogas refueling stations in the city to meet your needs? (ver 2)



Respondents' opinions regarding the number of biogas refuelling stations is surprisingly similar among drivers that regularly travel long or short distances. Nevertheless, as expected those driving long distances (who need to refuel more often) are somewhat more dissatisfied with the number refuelling stations, while those driving short distances are more likely to describe the refuelling infrastructure as adequate.

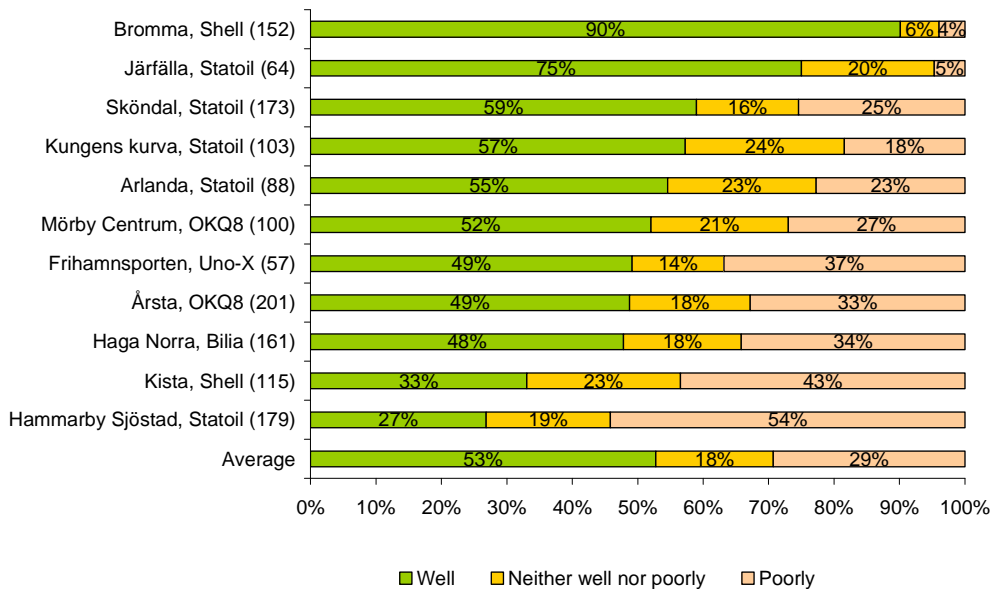
Figure 14 How well or poorly do the refuelling stations currently work? (Percent)



In 2008, only 17 percent were satisfied with how the refuelling stations worked. One year later the situation has improved considerably. Now more than half of the respondents (54 percent) are satisfied and only 27 percent dissatisfied.

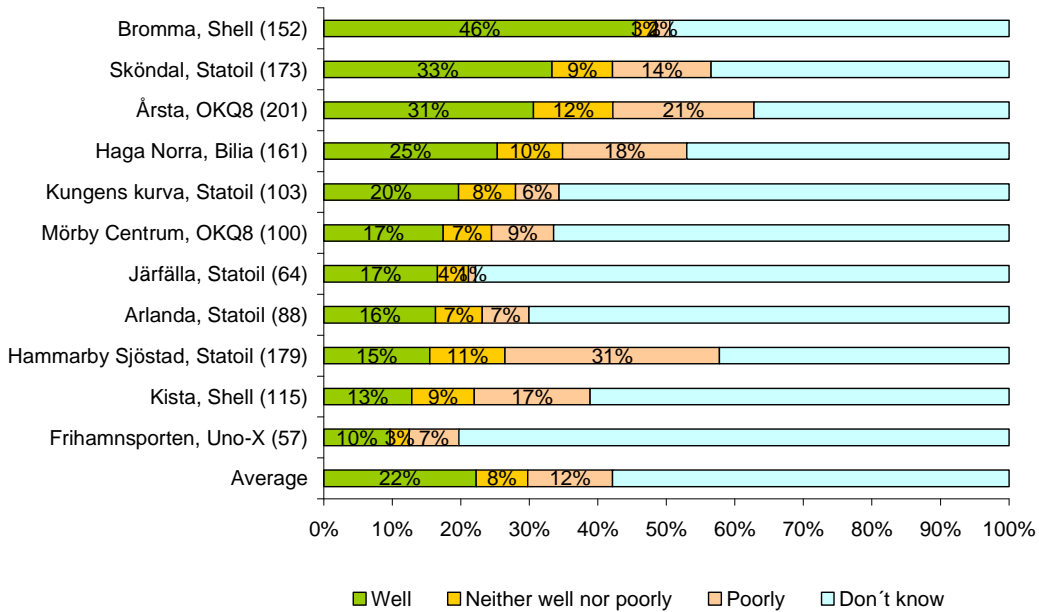
The questions were worded differently in 2008 and 2009. In 2008 a general question was posed about how the refuelling stations work while the same question was asked regarding specific stations in 2009.

Figure 15 How well or poorly do the following refuelling stations currently work? (Only in 2009 survey)



Figures in brackets state the number of answers *excluding* "Don't know". Percentage *excludes* "Don't know".

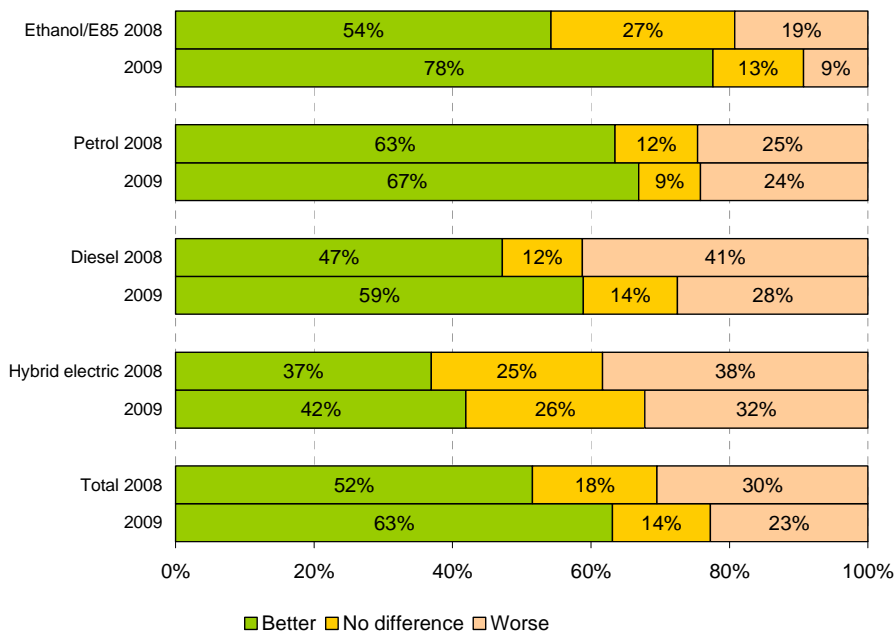
Figure 16 How well or poorly do the following refuelling stations currently work? (Only in 2009 survey)



Figures in brackets state the number of answers *excluding* “Don't know”. Percentage *includes* “Don't know”.

The figure above includes respondents answering “Don't know” which gives an indication on how many people that use/ don't use the refueling stations.

Figure 17 Do you believe that a biogas car is better or worse economically (purchase, taxes, incentives etc) compared to a similar car of another fuel type



A majority of respondents believe that a biogas car is more cost efficient than a similar ethanol/E85, petrol or diesel car. The increased share stating that biogas cars are “better” is statistically significant.

Appendix I How important or unimportant to you are the following sources of information regarding biogas vehicles?

	2008				2009			
	Important	Neither unimportant nor important	Unimportant	Don't know	Important	Neither unimportant nor important	Unimportant	Don't know
Scientific research	71%	17%	5%	7%	74%	12%	6%	8%
Media	63%	19%	10%	8%	63%	19%	10%	8%
Fuel companies	52%	22%	19%	7%	54%	21%	16%	9%
Colleagues / acquaintances	53%	32%	10%	5%	53%	30%	9%	8%
Representatives of City of Stockholm	41%	26%	15%	18%	50%	22%	13%	16%
Governmental organisations	46%	31%	12%	10%	48%	26%	11%	15%
Car dealers and manufacturers	43%	28%	20%	8%	45%	22%	22%	10%
Non-governmental organisations	39%	37%	11%	13%	43%	29%	12%	16%
Newsletters, advertising etc from the City of Stockholm	39%	28%	16%	17%	43%	25%	16%	16%
Forums or similar on the internet	38%	35%	17%	10%	40%	30%	16%	14%
Webpage www.miljobilar.stockholm.se	39%	29%	16%	16%	39%	24%	14%	23%
Representatives of AGA Gas	35%	30%	18%	17%	39%	24%	15%	22%
Representatives of Gasföreningen	27%	33%	17%	23%	34%	28%	12%	26%
Newsletters, advertising etc from AGA Gas	26%	31%	20%	22%	30%	26%	18%	25%
Web-page www.gasforeningen.se	27%	33%	17%	23%	30%	28%	13%	29%
Newsletters, advertising etc from Gasföreningen	27%	33%	18%	22%	29%	28%	14%	28%
Web-page www.aga.se	26%	32%	21%	22%	27%	29%	17%	27%
Other	30%	25%	7%	38%	20%	15%	8%	57%

Appendix II Questionnaire 2008

1. Kön?

- ₁ Kvinna
₂ Man

2. Ålder?

- ₁ 18-25 år
₂ 26-45 år
₃ 46-65 år
₄ 66 år eller äldre

3. Vilken typ av biogasbil kör du?

- ₁ Personbil
₂ Lätt lastbil (<3 500 kg)
₃ Tung lastbil (>3 500 kg)
₄ Sopbil
₅ Annat tungt fordon

4. Är den biogasbil du kör din privata eller ägs den av din arbetsgivare?

- ₁ Min privata bil - Besvara fråga 5
₂ Min arbetsgivares bil - Besvara fråga 6 och 7

Till förare av privatägda biogasbilar:

5. Vilken var den främsta anledningen till att du köpte en biogasbil (fyll endast i ett alternativ)

- ₁ Mitt miljöengagemang
₂ Mitt teknikintresse
₃ Status
₄ Ekonomiskt fördelaktigt
₅ Förbättrad prestanda
₆ Jag vill stödja produktion och utveckling av biogas som drivmedel
₇ Jag köpte min tidigare förmånsbil
₈ Annat, nämligen:.....
₉ Vet ej

Fortsätt med fråga 8

Till förare av företagsägda biogasbilar:

6. Vilken är den främsta anledningen till att du kör en biogasbil? (fyll endast i ett alternativ)

- ₁ Mitt miljöengagemang
- ₂ Mitt teknikintresse
- ₃ Marknadsföring
- ₄ Ekonomiskt fördelaktigt
- ₅ Förbättrad prestanda
- ₆ Jag vill stödja produktion och utveckling av biogas som drivmedel
- ₇ Miljöpolicy hos företaget
- ₈ Jag har inget alternativ
- ₉ Annat, nämligen:.....
- ₁₀ Vet ej

7. Inom vilken sektor är du verksam? (fyll endast i ett alternativ)

- ₁ Industri
- ₂ Byggsektorn
- ₃ Renhållning
- ₄ Transport
- ₅ Hotel & restaurant
- ₆ Handel
- ₇ Övrig tjänstesektor
- ₈ Utbildning
- ₉ Vård, omsorg
- ₁₀ Offentlig förvaltning
- ₁₁ Egen företagare
- ₁₂ Annat

Till alla biogasbiförare:

8. Hur mycket i genomsnitt (km/vecka) kör du biogasbil?

- ₁ 0-100 km/vecka
- ₂ 100-200 km/vecka
- ₃ 200-400 km/vecka
- ₄ 400-500 km/vecka
- ₅ 500- km/vecka
- ₆ Vet ej

9. Vad anser du om antalet tankstationer för biogas i Stockholms kommun, i förhållande till ditt behov?

- ₁ Alldeles för få
- ₂ Något för få
- ₃ Lagom
- ₄ Vet ej

10. Hur bra eller dåligt fungerar tankstationerna för närvarande?

- ₁ Mycket dåligt
- ₂ Ganska dåligt
- ₃ Varken bra eller dåligt
- ₄ Ganska bra
- ₅ Mycket bra
- ₆ Vet ej

11. Är enligt dig en biogasbil sämre eller bättre än motsvarande konventionella bil i följande avseenden?

	Mycket sämre	Något sämre	Ingen skillnad	Något bättre	Mycket bättre	Ingen åsikt
Passagerarkomfort	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Förarkomfort	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Köregenskaper	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Buller	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Säkerhet	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Avgasutsläpp	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Lukt	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Acceleration	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Hastighet	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Inbromsning	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
Räckvidd (antal km du kan köra per tankning)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6

12. Om man jämför din inställning till biogasbilar innan du började köra dem med din inställning idag så är du nu:

- 1 Mycket mer negativ
- 2 Något mer negativ
- 3 Ingen skillnad
- 4 Något mer positiv
- 5 Mycket mer positiv
- 6 Vet ej

13. På det hela taget - hur nöjd eller missnöjd är du med din erfarenhet av att köra biogasbil?

- 1 Mycket missnöjd
- 2 Ganska missnöjd
- 3 Varken nöjd eller missnöjd
- 4 Ganska nöjd
- 5 Mycket nöjd
- 6 Vet ej

14. Skulle du rekommendera andra att köra biogasbil?

- ₁ Ja, absolut
- ₂ Ja, antagligen
- ₃ Tveksam
- ₄ Nej, antagligen inte
- ₅ Nej, absolut inte
- ₆ Vet ej

15. Hur viktiga eller oviktiga är följande informationskällor rörande biogas och biogasfordon för dig?

	Mycket oviktig	Ganska oviktig	Varken viktig eller oviktig	Ganska viktig	Mycket viktig	Vet ej
Bilförsäljare och bilföretag	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Drivmedelsbolag	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Media	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Kollegor/bekanta	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Forum eller liknande på Internet	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Vetenskaplig forskning	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Statliga organisationer	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Icke-statliga organisationer	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Företrädare för "Miljöbilar i Stockholm"/Stockholms stad	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Nyhetsbrev, reklam mm från Stockholms stad	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Websidan www.miljobilar.stockholm.se	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Företrädare för AGA GAS	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Nyhetsbrev, reklam mm från AGA Gas	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Websidan www.agagas.se	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Företrädare för Gasföreningen	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Nyhetsbrev, reklam mm från Gasföreningen	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Websidan www.gasforeningen.se	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆

Annan (skriv vilken nedan): ₁ ₂ ₃ ₄ ₅ ₆

Annan informationskälla:

16. Tror du det totalekonomiskt sett (inköp, bidrag, drivmedelskostnader, skatter mm) är bättre eller sämre att köra biogasbil jämfört med andra fordonstyper?

	Mycket sämre	Lite sämre	Ingen skillnad	Lite bättre	Mycket bättre	Vet ej
Jämfört med bensin	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med diesel	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med etanol/E85	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med elhybrid	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆

Tack för din medverkan!

Lämna gärna ytterligare kommentarer nedan

Appendix III Differences in questionnaire 2009

3. Vilken typ av biogasbil kör du?

- ₁ Personbil
- ₂ Lätt lastbil (<3 500 kg)
- ₃ Tung lastbil (>3 500 kg)
- ₅ Annat tungt fordon

Skillnad: Sopbil ej med som alternativ 2009.

4. Är den biogasbil du kör din privata eller tillhandahålls den av din arbetsgivare?

- ₁ Min privata bil – *Fortsätt med fråga 5*
- ₂ En bil som min arbetsgivare/mitt eget företag tillhandahåller och som jag disponerar helt själv – *Fortsätt med fråga 6*
- ₃ En bil som finns på mitt arbete och som många delar på - *Fortsätt med fråga 6*

Skillnad: Två svarsalternativ om arbetsgivarens bil istället för enbart “Min arbetsgivares bil”.

10. Hur bra eller dåligt fungerar följande tankstationer för närvarande?

	Mycket dåligt	Ganska dåligt	Varken bra eller dåligt	Ganska bra	Mycket bra	Vet ej
Arlanda: Statoil Driftvägen 4	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Kungens Kurva: Statoil Skärholmen	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Bromma: Shell Drottningholmsv. 490	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Kista: Shell Danmarksgatan 54	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Haga Norra: Bilja Frösundaleden 4	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Järfälla: Statoil Veddestavägen 26	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Mörby Centrum: OKQ8	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆

Frihamnsporten: Uno-X Tullvaktsvägen,	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Hammarby Sjöstad: Statoil Hammarby Fabriksv. 41	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Sköndal: Statoil Nynäsvägen/Bogårdsv.,	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Årsta: OKQ8 Partihandlarvägen 20,	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆

Skillnad: Frågor uppdelade per station istället för en generell fråga.

16. Tror du det totalekonomiskt sett (inköp, bidrag, drivmedelskostnader, skatter mm) är bättre eller sämre att köra biogasbil jämfört med andra fordonstyper?

	Mycket sämre	Lite sämre	Ingen skillnad	Lite bättre	Mycket bättre	Vet ej
Jämfört med bensin	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med diesel	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med el	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med elhybrid	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med etanol/E85	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Jämfört med LPG (Gasol)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆
Annat drivmedel, skriv nedan:	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅	<input type="checkbox"/> ₆

Annat drivmedel:

Skillnad: Även frågor om el, LPG och annat drivmedel.

17. Har du även besvarat den nästan identiska enkäten för ett år sedan?

₁ Ja

₂ Nej

₃ Vet ej

Skillnad: Ny fråga