Final Minutes



Performance Measures Subcommittee Meeting #34

Date: Monday, December 18, 2006 Time: 8:30 am to 12 noon Place: CASA Large Boardroom

In attendance:

Organization Alberta Environment Pembina Institute Canadian Petroleum Products Institute (CPPI) CASA CASA

Action Items

Task	Who	When
29.4 Work through the calculation procedures	Marianne	for next
for the indicators for performance measure #1		subcommittee
		meeting
32.10 Review Bill Page's recommendations to	Marianne	for next
determine if he suggested surveying anything.		subcommittee
		meeting
32.12 Review the results from previous	Marianne	for next
stakeholder surveys for recommendations on		subcommittee
changes to the questionnaire.		meeting
32.17 Check the minutes and notes from	Marianne	for next
previous subcommittee meetings for		subcommittee
suggestions on recommendations we might		meeting
wish to make to the board during our		
presentation to the board on the performance		
measures review.		
33.9 Consult with stakeholders re the potential	Mary, Bob, Ted	Before the March
indicators, three measures of particulates and		CASA Board
the question of absolute emissions versus		meeting
emission intensities.		
33.12 Consult CASA stakeholders with respect	the chair of the	For the next
to CASA organizing a meeting on the AQHI	subcommittee	subcommittee
for Environment Canada.		meeting
33.13 Consider if a question re CASA support	All	At the next
to airsheds can be added to the stakeholder		subcommittee
questionnaire.		meeting
33.14 Follow-up on the outstanding	Marianne	For the next

10035 108 ST NW FLR 10 EDMONTON AB T5J 3E1 CANADA

 Ph
 (780) 427-9793

 Fax
 (780) 422-3127

 E-mail
 casa@casahome.org

 Web
 www.casahome.org

assessments. (performance measure #3)		subcommittee
34.1 Have the minutes for the October 19 meeting posted on the CASA website	Marianne	Asap
34.2 Review the CERI report to CASA on energy efficiency and conservation opportunities.	Marianne	Before next subcommittee meeting
34.3 Continue to pursue data on energy intensities.	Marianne	For the next subcommittee meeting
34.4 Telephone Mike Brown (from the EUB) and remind him that we really need the assessments of implementation of flaring and venting substantive recommendations.	Donna	Done
34.5 Revise the 2006 workplan.	Marianne	For next subcommittee meeting
34.6 Raise the matter of the subcommittee chair with the new Executive Director.	Donna	Done
34.7 Revise the summary table of the status of the emission trend calculations.	Marianne	For next subcommittee meeting
34.8 Revise the description of the methodology.	Marianne	For next subcommittee meeting
34.9 Revise the summary table of results from the emission trend calculations.	Marianne	For next subcommittee meeting
34.10 Prepare a draft of the subcommittee's report to the board.	Marianne	For next subcommittee meeting
34.11 Revise the summary table of results for the energy use indicators.	Marianne	For next subcommittee meeting
34.12 Provide notes to the subcommittee re advice on revising the stakeholder questionnaire.	Donna	Notes provided to Marianne
34.13 Prepare recommendations on revising the stakeholder questionnaire.	Marianne	For next subcommittee meeting
34.14 Prepare a draft workplan for 2007.	Marianne	For next subcommittee meeting

Donna chaired the meeting.

1. Administration

a. Review and revise agenda and meeting objectives

The meeting objectives and the draft agenda were reviewed and accepted.

b. Review and approve draft minutes from October 19, 2006

The draft minutes for the PMS meeting of October 19, 2006 were approved.

Action 34.1: Marianne to have the minutes for the October 19 meeting posted on the CASA website.

c. Review action items

Action Items

Task	Who	Status
29.4 Work through the calculation procedures	Marianne	Carry forward to
for the indicators for performance measure #1		next meeting
31.7 Contact the EUB, the CFO team and the	Marianne	Done
F/V team re data on province wide H_2S		
emissions.		
31.8 Check with the CFO team re data on	Marianne	Done
TRS.		
31.9 Check with the EUB re data on solution	Marianne	Done
gas and coal bed methane.		
31.11 Contact Richard Melick of AENV re	Marianne	Done
greenhouse gas data.		
32.5 Consult Ray Wong on how to handle the	Bob and Marianne	Done
discontinuity with respect to years for which		
CAC emission inventories are available.		
32.6 Develop a draft procedure for calculating	Bob and Marianne	Done
emission trends.		
32.10 Review Bill Page's recommendations to	Marianne	Carry forward to
determine if he suggested surveying anything.		next meeting
32.12 Review the results from previous	Marianne	Carry forward to
stakeholder surveys for recommendations on		next meeting
changes to the questionnaire.		
32.17 Check the minutes and notes from	Marianne	Carry forward to
previous subcommittee meetings for		next meeting
suggestions on recommendations we might		
wish to make to the board during our		
presentation to the board on the performance		

measures review.		
33.1 Correct the minutes from the September	Marianne	Done
15 meeting and have them posted on the		
CASA website.		
33.2 Review the October version of the	Marianne	Done
workplan in the light of the discussion of this		
meeting and revise it accordingly.		
33.3 Develop a draft status report and forward	Marianne	Done
it to subcommittee members for review.		
33.4 Review draft status report and forward	All	Done
comments to Marianne.		
33.5 Finalize, and submit, the status report.	Marianne	Done
33.6 Obtain data for ozone precursors, total	Marianne	Done
reduced sulfur, solution gas, and odour.		
33.7 Expand data sets where possible, develop	Marianne, Bob, Richard	Done
consistent emission categories, revise the trend		
graphs, and test for statistical significance of		
the trends.		
33.8 Develop a recommendation as to how	Marianne, Bob, Richard	Done
Alberta emission trends are to be prepared and		
tested.		
33.9 Consult with stakeholders re the potential	Mary, Bob, Ted	Carried forward to
indicators, three measures of particulates and		after next
the question of absolute emissions versus		subcommittee
emission intensities.		meeting
33.10 Obtain the required data for the fuel sold	Marianne	Done
indicators from Statistics Canada and prepare		
trend graphs for the indicators.		
33.11 Obtain energy intensity and mix data and	Marianne	Partially done
prepare trend graphs.		
33.12 Consult CASA stakeholders with respect	Donna	Carry forward to
to CASA organizing a meeting on the AQHI		next meeting
for Environment Canada.		
33.13 Consider if a question re CASA support	All	Carry forward to
to airsheds can be added to the stakeholder		next meeting
questionnaire.		
33.14 Follow-up on the outstanding	Marianne	Carry forward to
assessments. (performance measure #3)		next meeting

With respect to item #31.9, data was obtained from EUB publications for solution gas but data for coal bed methane are only now being separated out and coal bed methane data may be available in the summer.

With respect to item # 33.11, data on the energy mix was obtained from Keith Denman (Alberta Environment) but no data has been found for energy intensity.

Action 34.2: Marianne to review the CERI report to CASA on energy efficiency and conservation opportunities.

Action 34.3: Marianne to continue to pursue data on energy intensities.

With respect to item #33.12, Donna will not have time to pursue this and leaves it to her successor to carry out.

With respect to item #33.14, we are still waiting for the assessments of implementation from the Flaring/Venting Project Team.

Action 34.4: Donna to telephone Mike Brown (from the EUB) and remind him that we really need the assessments.

d. Review workplan for 2006

The December version of the subcommittee's workplan for 2006 was reviewed. It was agreed that the next subcommittee meeting was to take place at the end of January and it was only after the January meeting that subcommittee members would consult their stakeholders on the new performance measures that the subcommittee has developed.

Action 34.5: Marianne to revise the workplan.

e. Discuss subcommittee chair

Because Donna is leaving CASA, a new chair for the subcommittee is required. Mary, Ted and Bob agreed that it is very difficult to both chair a meeting and to participate fully on behalf of ones sector. Thus it was agreed that the new executive director of CASA should be asked to chair the subcommittee.

Action 34.6: Donna to raise the matter with the new Executive Director.

2. New Performance Measures – Emission Reductions

a. Review status of emission trend calculations

Marianne provided to subcommittee members, and discussed, a table (see below) that summarizes the status of these calculations.

Substance		Data Source/ Comments	Status
of Concern			
H_2S	•	Richard to prepare 2 databases from NPRI data	Done
	٠	one database to contain all reports	
	•	second database to contain reports from consistently reporting	

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	facilities only	
	• databases to contain data for 2000 to 2005, inclusive	
$NO_x(NO_2)$	CAC inventory	Done
	Marianne to check if NO included	
SO_x (SO₂)	CAC inventory	Done
03	• O ₃ is not emitted, need to look at O ₃ precursors	Done
	• O ₃ precursors include NO, NO ₂ , VOCs, CO	
	• in rural areas NO _v is important <i>but NO_v is not emitted, the</i>	
	NO _y components are generally products of chemical	
	reactions	
	• NO _y includes NO, NO ₂ , PAN (peroxyacetyl nitrate), HNO ₃ ,	
	and NO_3	
	• the major O ₃ precursors are already on the list of substances of concern	
TRS	• includes H ₂ S	I have some
	Richard to find forestry TRS data	forestry data;
	CFO to provide agricultural data	but CFO has no
		agriculture data
Solution	• what is solution gas? is it primarily methane?	Done
gas	• <u>www.eub.ca</u> , publication ST60B for data on flared and vented	
	solution gas	
	• we are interested in coal bed methane as well	
	• EUB has action item for F/VPT to see if separate data are	
	available for coalbed methane venting and flaring.	.
Hg	• the same as H_2S	Done
PM	CAC inventories	Done
	• reported in terms of 3 size fractions: total particulates, less than	
NOC	or equal to 2.5 microns and less than or equal to 10 microns	D
VOCs	CAC inventories	Done
CO ₂ equiv.	• EC Greenhouse Gas Inventories provide ghg emissions for	Done
	Alberta for years 1990 to 2003 inclusive	
<u> </u>	• Alberta Environment to provide for years 2004 and 2005	D
CO2equiv	Alberta Environment has provided for years 1990 to 2003	Done
	EC Grand Land To For Jacobian 2004 and 2005	Dona
NH.	EC Greenhouse Gas Inventories	Done
NII3	CAC Inventories	Hove Date on
ououi	• Odour is primarily dependant on ambient concentrations and	Odour
	• the EUB has adour complaint statistics for the oil and gas	Complaints
	industry	Complaints
	• the CEO Project Team has adour complaint statistics for the	
	agriculture industry	

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pathogens/ bioaerosols	•	No data available	No Data
indoor air quality substances	•	No emissions indicator selected	No Indicator
СО	٠	CAC inventories	Done

- ✓ the forestry data that we have obtained is only from some pulp and paper facilities and is not comprehensive enough for our purposes, so we will not proceed with TRS;
- \checkmark solution gas is a catch all and contains other substances as well as methane;
- ✓ coal bed methane sometimes flared like solution gas but data is currently not available for coal bed methane flaring;
- ✓ coal bed methane data may be available sometime next year and we may reconsider coal bed methane then; but for now we will not proceed with it;
- ✓ odour complaints relate more to ambient concentrations than to emissions and so odour complaints should be included under the air quality performance measure as an extra indicator;
- ✓ no data appears to be available on pathogens/bioaerosols and these will be dropped from our list of substances of concern but could be revisited in a few years.
- ✓ no indicators have yet been selected by the indoor air quality project team and so this item is dropped from our substances of concern
- ✓ the information in this table should appear in an appendix of our report to the board to support our decision process;
- \checkmark the sources of data need to be given
- \checkmark solution gas is a catch all and contains other substances than methane.

Action 34.7: Marianne to revise the table.

b. Review proposed methodology for calculating emission trends

The subcommittee reviewed the description below of the methodology to be used in calculating trends for the new performance measures.

Methodology for Calculating Emission Trends

- 1. Data to be used includes CAC, NPRI and Greenhouse gas inventories. Auxiliary data (such as GDP, population, etc) can be obtained from Statistics Canada or the Alberta government.
- 2. The categories for which trend graphs are to be produced for mercury and hydrogen sulphide are "provincial total", "fossil fuel power generation", and "oil sands. Also for mercury and hydrogen sulphide, we will produce two emission trend graphs for each category for each substance, one using all reporting facilities and the other using only consistently reporting facilities.

- 3. For parameters for which we are using CAC data, graphs should be plotted for the categories "provincial total", "oil sands", "power generation", "upstream oil and gas", "transportation total", "agriculture" and "other". (Note: other means the difference between the provincial total and the total of the other specific categories.) Notes are to be added explaining major components of the different categories. As well, the categories used by CASA and Environment are to be the same.
- 4. Trend graphs are to start at 1990 where possible. For particulates and ammonia use split (or stacked) graphs, i.e. show one graph which includes the provincial total (with all the specified categories) and a 2nd graph with an expanded scale that shows only some of the specified categories;
- 5. Use the EXCEL linear regression capability for all the trend graphs to determine direction of trend, estimates of the magnitude, and the statistical significance of the trends. For substances of concern that are ratios, regressions are to be run for the ratio, for the numerator and for the denominator;
- 6. Because many of the trend graphs are obviously not linear, Bob, Richard to modify the program for the Daniel t test (Spearman Rho test) to take into account the variable data frequency of the CAC data (*when they can*);
- 7. Bob, Richard to run the Daniel t test for all trend graphs to determine statistical significance of trend (*when they can*);
- 8. Bob, Richard to find/contract someone to program the Sen technique (*when they can*);
- 9. Bob, Richard to run the Sen technique for all the trend graphs as a check/comparison for the results from the linear regressions and Daniel t tests and to get a better estimate of the magnitude of the trend (*when they can*);
- 10. the Performance Measures Subcommittee and/or Alberta Environment to consider practical significance versus statistical significance (*when they wish*);
- 11. Bob, Richard to test all trend lines for autocorrelation (when they wish).

- ✓ this description of methodology will not be part of the report to the board, rather it will become part of the Secretariat's handbook for calculating performance measures indicators;
- ✓ this description needs to be the most comprehensive of all descriptions relating to the indicators; for instance, if notes are provided on any indicators within the body of the report to the board these notes should also appear in the description of the methodology;
- ✓ the "other" category should be explained;
- ✓ the "projections" provided for the CAC inventory data may be confusing and should not be shown in graphs and text going to the board but it should be made clear that the statistics are derived using actual data only;
- ✓ the fact that "statistically significant" means significant at the 5% level should be mentioned
- ✓ it should be mentioned that a linear regression is the most stringent significance test (of the ones contemplated in our analysis) and anything that is statistically significant with the linear regression will also be significant with the other tests we plan to apply;
- ✓ the results we will show the board in March are to be given as examples only, the real analysis will be done later in 2007, when additional data will be available, by Alberta Environment;

- ✓ these new indicators should be calculated every 3 years
 ✓ steps 10 and 11 should be deleted.

Action 34.8: Marianne to revise the description of the methodology.

c. Review results of emission trend calculations

The subcommittee reviewed the summary table below.

Substance	Category	Direction	Statistical	Magnitude
of Concern		of Trend	Significance	tonnes/year
$NO_x(NO_2)$	Alberta Total	increasing	significant	25,360
	Oil Sands	increasing	not significant	
	Power Generation	increasing	not significant	
	Upstream Oil+Gas	increasing	significant	24,034
	Transportation	decreasing	significant	- 1,806
	Other	increasing	not significant	
SO _x (SO ₂)	Alberta Total	increasing	not significant	
	Oil Sands	decreasing	not significant	
	Power Generation	increasing	not significant	
	Upstream Oil+Gas	increasing	not significant	
	Transportation	decreasing	not significant	
	Other	increasing	not significant	
TPM	Alberta Total	increasing	significant	270,313
	Oil Sands	increasing	not significant	
	Power Generation	decreasing	not significant	
	Upstream Oil+Gas	increasing	significant	524
	Transportation	decreasing	significant	-336
	Agriculture	increasing	significant	3,970
	Other	increasing	significant	271,021
PM10	Alberta Total	increasing	significant	93,252
	Oil Sands	decreasing	not significant	
	Power Generation	decreasing	significant	-1,557
	Upstream Oil+Gas	increasing	significant	515
	Transportation	decreasing	significant	-332
	Agriculture	increasing	significant	2,739
	Other	increasing	significant	91,910
PM2.5	Alberta Total	increasing	significant	13,860
	Oil Sands	decreasing	not significant	
	Power Generation	decreasing	significant	-808
	Upstream Oil+Gas	increasing	significant	512
	Transportation	decreasing	significant	-296
	Agriculture	increasing	significant	425

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	Other	increasing	significant	14,109
VOCs	Alberta Total	decreasing	not significant	
	Oil Sands	increasing	significant	3,783
	Power Generation	increasing	not significant	
	Upstream Oil+Gas	decreasing	not significant	
	Transportation	decreasing	significant	-3,782
	Agriculture	increasing	not significant	
	Other	decreasing	not significant	
NH ₃	Alberta Total	increasing	not significant	
	Oil Sands	increasing	not significant	
	Power Generation	decreasing	not significant	
	Upstream Oil+Gas	decreasing	not significant	
	Transportation	increasing	significant	105
	Agriculture	increasing	not significant	
	Other	increasing	not significant	
CO	Alberta Total	increasing	not significant	
	Oil Sands	increasing	not significant	
	Power Generation	decreasing	not significant	
	Upstream Oil+Gas	increasing	significant	33,562
	Transportation	decreasing	significant	-41,873
	Other	increasing	not significant	
H_2S	All Reporting	decreasing	not significant	
	Alberta Total			
	All Reporting	decreasing	not significant	
	Oil Sands			
	All Reporting	decreasing	not significant	
	Upstream Oil+Gas			
	All Reporting	increasing	not significant	
	Other			
	Consistently Rep	decreasing	not significant	
	Alberta Total			
	Consistently Rep	decreasing	not significant	
	Oil Sands	1 .		
	Consistently Rep	decreasing	not significant	
	Consistently Der	daamaasima	not significant	
	Other	decreasing	not significant	
На	All reporting	incrossing	significant	10 Ka/yoor
ng	All reporting	mcreasing	significant	49 Kg/year
	All reporting	decreasing	not significant	
	Oil Sands	uccieasing		
	All renorting	increasing	significant	40 Kg/year
	Power Generation	mercasing	Significant	+0 ixg/yCai

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	All reporting Other	increasing	not significant	
	Consistently Don	increasing	significant	16 Kalvoor
	Alberta Total	mcreasing	significant	40 Kg/yeai
	Consistently Rep Oil Sands	increasing	not significant	
	Consistently Rep	increasing	significant	40 Kg/year
	Power Generation		~-8	
	Consistently Ren	increasing	significant	5 Kg/year
	Other	mercusing	Significant	e iig, jour
TRS	Other			waiting for data
Solution	Elerad and Vantad	deeneesing	significant	
Solution	Flared	deeneesing	significant	-93 volume/year
gas	Flared	decreasing	significant	-89 volume/year
	Vented	decreasing	significant	-81 volume/year
CO_2 equiv.	Alberta Total	increasing	significant	4746 kt
	Fossil Fuel	increasing	significant	1711 kt
	Industries			
	Electricity + heat	increasing	significant	877 kt
	generation			
	Transportation	increasing	significant	921 kt
	Agriculture	increasing	significant	318 kt
	Other	increasing	significant	919 kt
CO2equiv	Alberta GDP	increasing	significant	3954 (1997
intensities		8		million \$)
	Alberta GHG	decreasing	significant	-0.026 kt
	Intensity		~-8	CO2eq/(1997
				million \$)
CH4	Alberta Total	increasing	significant	732 tonnes
	Fossil Fuel	increasing	significant	568 tonnes
	Industries	mercusing	Significant	
	Flectricity and	increasing	significant	1 30 tonnes
	Heat Generation	mercusing	Significant	1.57 tonnes
	Transportation	increasing	not significant	
	Agriculture	increasing	significant	181 toppos
	Agriculture	decreasing	not significant	
	Oulei	decreasing		Have EUD and
odour				Have EUB and
				NRCB odour
				complaint data
pathogens/				No data
bioaerosols				
indoor air				No indicator
quality				
substances				

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- > this table should appear in an appendix to the report;
- the substances of concern should be numbered or otherwise organized;
- the column headed "statistically significant" should be called "statistically significant using linear regression";
- the column headed "magnitude" is confusing and should be changed to show % change from the base year;
- for trends that are not statistically significant, "-" should be put in the "direction of trend" and "magnitude" columns;
- wherever "significant" is used, it should be "statistically significant";
- the "notes" are useful and should be kept as notes to the table but any information that appears in these notes should also appear in the description of the methodology;
- substances of concern for which we have no results because we have no data should not be removed from the table but a note should be provided explaining that we have no data
- ➢ "odour" should be "odour complaints".

Action 34.9: Marianne to revise the table.

d. Select indicators

The subcommittee agreed to the following with respect to the indicators we will use in conjunction with the new emission reduction performance measure:

- any substances of concern for which we were unable to obtain sufficient data will not be selected as indicators but will be recommended for review the next time around;
- only PM2.5 will be used as an indicator for particulate matter because the results for TPM and PM10 are fairly similar to those for PM2.5;
- for H2S and Hg only the data for all reporting facilities will be used to calculate indicators.

e. Content of report to board

The subcommittee agreed on the following with respect to the report to the board:

- the report is to cover the charge to the subcommittee and how well the subcommittee completed its tasks;
- the results from the trend analyses that will be included in the report will be included as examples only to illustrate the process; calculation of all the indicators will take place in the latter half of 2007, when more data is available, as part of producing the 2007 performance measures report;
- Attachment F (summary of results from the regressions) is to go into the report as an appendix and is to be used in support of the subcommittee's decision process;
- the new performance measures we developed and the process we followed to identify indicators for these new performance measures;
- for each substance of concern for which we have data, a graph is to be provided as an example of the process;

- the graphs are to be in an appendix, the recommended indicators in the body of the report;
- with respect to slotting the new performance measures into the old set of performance measures, the old performance measure #1 (air quality) is to become performance measure # 1a. The new emission reduction performance measure is to be performance measure #1b. and the new energy use performance measure is to be performance measure #1c.

Action 34.10: Marianne to prepare a draft of the subcommittee's report to the board for the next subcommittee meeting.

Mary wishes it to be recorded that she believes emission intensities should not be shown in the subcommittee's report to the board. She is of the view that we should report only what is important to the air we breathe. Subcommittee members agreed, though, that they could live with reporting both absolute emissions and emission intensities.

3. New Performance Measures – Energy Use Indicators

a. Review draft indicators

Marianne summarized the table of results re potential indicators for the new energy use performance measure below.

Potential	Category	Direction	Statistical	Magnitude
Indicator		of Trend	Significance	per year
absolute	Gasoline Sales	increasing	significant	95097 (1000
fuel sold				litres)
	Diesel Oil Sales	increasing	significant	125649 (1000
				litres)
	Gasoline+Diesel	increasing	significant	220746 (1000
	Oil Sales			litres)
fuel sold	Alberta Population	increasing	significant	50366
per capita	Per Capita Fuel	increasing	significant	36 litres
	Sales			
fuel sold	Vehicle	increasing	significant	61590
per vehicle	Registrations			
	Per Vehicle Fuel	increasing	not significant	
	Sales			
energy	still need to find			
intensity	this data			
energy mix	R+A Generation	increasing	significant	408 GWh
indicator	Total Electricity	increasing	not significant	
	Sales			
	% R+A of Total	increasing	significant	0.75 %

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% Increase since 2001	increasing	significant	0.76 %

- their decisions with respect to the emission reduction indicators should be extrapolated to cover these energy use indicators;
- > it should be indicated that the fuel sales refer to road transport vehicles;
- \blacktriangleright R + A should be written out;
- ➢ it should be indicated that "% Increase" is the CASA target;
- gasoline sales, diesel oil sales, Alberta population, vehicle registrations and total electricity sales need not be shown in this table because they are not potential indicators in themselves.

Action 34.11: Marianne to revise the table.

4. Review/Revise Stakeholder Questionnaire

This item was deferred to the next subcommittee meeting. However, Donna agreed to leave her advice on the questionnaire and Marianne agreed to prepare some recommendations for the next subcommittee meeting.

Action 34.12: Donna to provide notes to the subcommittee re her advice on revising the stakeholder questionnaire.

Action 34.13: Marianne to prepare recommendations on revising the stakeholder questionnaire for the next subcommittee meeting.

5. Status Reports

There was nothing to report with respect to this item.

6. Workplan for 2007

The subcommittee agreed to use the tasks/ process accomplished in 2004 when the last comprehensive performance measures calculation was conducted as a guide for the 2007 workplan.

Action 34.14: Marianne to prepare a draft workplan for 2007 for the next subcommittee meeting.

The subcommittee also discussed the performance of the subcommittee over the past year. All members felt very good about the close/good working relationship and the accomplishments of the subcommittee. The new emission reduction performance measure and its indicators was seen as a highlight of the subcommittee's accomplishments in 2006.

7. Next Meeting The next meeting of the Performance Measures Subcommittee will be on Tuesday, January 30 from 9 am to 3 pm.