

Revisions to this Memorandum of Understanding will not be accepted

Memorandum of Understanding between
The United States Environmental Protection Agency
and
FIELD(COMPANY)

'97 NOV 7 PM4:4

I. Common Agreements and Principles

- A. This is a voluntary agreement between FIELD(COMPANY) ("ENERGY STAR® Partner" or "Partner") and the United States Environmental Protection Agency (EPA), by which FIELD(COMPANY) joins the ENERGY STAR Program. The terms of this MOU shall apply to televisions (TVs), videocassette recorders/videocassette players (VCRs), and TV/VCR combination units sold by Partner in the U.S. market under its own brand name(s).
- B. ENERGY STAR Partner and EPA agree that the primary purpose of the ENERGY STAR Program is to promote the manufacturing and marketing of energy-efficient equipment, thereby potentially reducing combustion-related air pollution.
- C. ENERGY STAR Partner and EPA agree that the use of energy-efficient equipment may also reduce household energy bills and increase profits and competitiveness for businesses.
- D. ENERGY STAR Partner and EPA agree that the ENERGY STAR Program may also improve or enhance equipment's useful lifetime, customer satisfaction, and overall product quality.
- E. ENERGY STAR Partner and EPA agree that publicizing the ENERGY STAR Program is important to demonstrate the following: the concern of Partner for the environment, the vitality of the free enterprise system in reducing costs, and the capability of voluntary programs to achieve environmental goals.
- F. ENERGY STAR Partner and EPA agree that as technologies and markets change, it may become desirable to revise the specifications contained in this MOU. ENERGY STAR Partner and EPA agree to work together to revise the specifications in the MOU if and when changes in technology and/or markets make these revisions desirable and necessary. ENERGY STAR Partner and EPA also agree that a reasonable effort should be made to consider the ideas and opinions of other ENERGY STAR TV/VCR Partners to achieve a consensus when revising the specifications contained within this MOU.
- G. ENERGY STAR Partner and EPA agree that the integrity of the ENERGY STAR TV/VCR Program and the ENERGY STAR logo depend on consumer recognition of the ENERGY STAR logo as a means of identifying the most energy-efficient products in a particular market. Therefore, ENERGY STAR Partner and EPA will revise the technical specifications as necessary to ensure that only the most energy-efficient products qualify for the ENERGY STAR logo. ENERGY STAR Partner and EPA will accomplish this goal by periodically reviewing the specifications and adopting the technically feasible revisions to these specifications.
- H. ENERGY STAR Partner and EPA agree that any product model that qualifies for the ENERGY STAR logo may continue to bear the ENERGY STAR logo until the model is phased out of the market, as long as it continues to meet the specifications under which it was originally qualified (i.e., new specifications will not apply retroactively to previously qualified products).
- I. ENERGY STAR Partner and EPA agree that maintaining public confidence in the ENERGY STAR

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Program is critical to achieving the shared goals of Partner and EPA.

J. ENERGY STAR Partner and EPA agree that membership in the ENERGY STAR Program is essential to the cooperative effort to achieve the shared goals stated above.

II. Definitions

A. Television (TV): A commercially available electronic product consisting of a tuner/receiver and a monitor encased in a single housing. The monitor usually relies upon a cathode-ray tube (CRT), liquid crystal display (LCD), or other display device. The TV is designed to receive and display a television signal broadcast by antenna, satellite, or cable. To qualify, the TV must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adaptor. For purposes of this agreement, this definition does not include televisions that require additional power to receive and process signals that contain information and/or data for electronic program guides.

B. Videocassette Recorder/Videocassette Player (VCR): An electronic product designed to play and/or record video tape. To qualify, the VCR must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adaptor. For purposes of this agreement, this definition does not include videocassette recorders/videocassette players that require additional power to receive and process signals that contain information and/or data for electronic program guides.

C. TV/VCR Combination Unit: A system in which the TV and VCR are combined into a single unit and which meets all of the following criteria: the VCR is included in the television casing; it is not possible to measure the power requirements of the two components separately without removal of the television casing; and the system is connected to the wall outlet through a single power cable. To qualify, the TV/VCR must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adaptor. For purposes of this agreement, this definition does not include TV/VCRs that require additional power to receive and process signals that contain information and/or data for electronic program guides.

D. Standby Mode: The product is connected to a power source, produces neither sound nor picture, does not transmit nor receive program information and/or data (excluding data transmitted to change the unit's condition from "standby mode" to "active mode"), and is waiting to be switched to "on" (active/play mode) by a direct or indirect signal from the consumer, e.g., with the remote control.

E. Active/Play Mode: The product is connected to a power source, produces sound and/or picture, and/or records or plays videotape. The power requirement in this mode is typically greater than the power requirement in standby mode.

F. Disconnect: The product is disconnected from all external power sources.

III. Entry into Force and Duration

A. Both parties agree that the terms outlined in this MOU shall become effective when signed by both parties.

B. Both parties agree that, as of January 1, 1998, Partner may begin to qualify TV, VCR, and TV/VCR products, pursuant to Section IV.C., below. Note that this date was selected to coincide with the Consumer Electronics Show^{ab}.

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C. Both parties agree that this MOU will remain in force until December 31, 2000. Both parties agree to begin a formal review of this MOU on July 1, 1999. Both parties agree that on or before January 1, 2001 a new or revised MOU may be developed in order to extend the program into a second phase. At that time, the Partner may choose to sign the new/revised MOU and continue its participation in the Program.

D. Both parties agree that this agreement can be terminated by ENERGY STAR Partner or EPA at any time, and for any reason, with no penalty. However, both parties agree that termination for noncompliance would only occur in accordance with the procedures of Section VII., below.

IV. ENERGY STAR Partner's Responsibilities

A. Appointment of Liaison

ENERGY STAR Partner agrees to appoint a responsible representative of the company as liaison with EPA for the ENERGY STAR Program and to notify EPA within one month of any change in liaison responsibility. (See Attachment.)

B. Number of Products Required

ENERGY STAR Partner agrees to market during the duration of this agreement one or more product models with power requirements that do not exceed the specifications outlined in Section IV.C., below.

C. Product Qualification for the ENERGY STAR Logo

PRODUCT	STANDBY MODE
TV	3 Watts
VCR	4 Watts
TV/VCR Combination	6 Watts

D. Product Testing

Partner agrees to perform tests according to the criteria specified in Section IV.E., as necessary, to determine which of its product models comply. Based on the results of these tests, Partner shall self-certify those product models that it determines are compliant with the specifications outlined above. Partner may submit information to EPA on compliant product models on a voluntary basis.

E. Power Measurement

The power requirement shall be measured from the outlet or power supply source, to the product under test. Partner shall measure the average True Power (in watts) of the product. When a Partner is performing measurements to self-certify a product model, the products under test must be in the condition (e.g., configuration and settings) shipped to the customer. See the attached Testing Guidelines for ENERGY STAR® TV/VCR Program for more information.

F. Customer Education

1. Identification of Qualifying Products in the Marketplace

ENERGY STAR Partner must ensure that consumers have a quick and easy method of determining which of their products are ENERGY STAR compliant. To achieve this goal, EPA recommends that

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Partner place the ENERGY STAR logo on all qualified TV, VCR, and TV/VCR models, their packaging, and product-related materials such as brochures, manuals, and advertisements.

2. Product Literature

It is important that consumers can identify and understand the energy-saving characteristics of the product models that the Partner qualifies as ENERGY STAR compliant. Accordingly, Partner agrees to provide general information to consumers regarding the ENERGY STAR status of their TVs, VCRs, and TV/VCRs that may include one or more of the following: a description of the ENERGY STAR Program, a discussion of the energy-saving characteristics of the product, a description of the environmental benefits that result from the energy saved by the product, and a description of the potential energy-bill savings of the product. Partner may determine the best manner through which to disseminate this general information to customers. Examples of acceptable approaches include user's manuals and brochures included in the shipping boxes.

G. Employee Education

ENERGY STAR Partner agrees to provide information about the ENERGY STAR Program to all of its employees whose jobs are relevant to the development, marketing, sales, and service of ENERGY STAR labeled products. This is necessary to ensure that such personnel are familiar with the goals and operational aspects of the program.

H. Reading and Understanding Logo Use Guidelines

ENERGY STAR Partner affirms that it has read and understood the EPA ENERGY STAR Logo Use Guidelines (attached).

I. Customer Testimonials

Partner agrees that, at EPA's request, it will ask retailers to locate customers who have profited from the program and are willing to share information about performance and savings, as well as employees who have contributed in its success. This customer- or employee-supplied information is to be without reference or endorsement of specific Partner, specific products, or other supply sources.

J. Endorsement

ENERGY STAR Partner understands that participation in the ENERGY STAR Program does not constitute EPA endorsement of ENERGY STAR Partner or its products. In addition, since the EPA will not officially approve any individual test reports submitted by Partner, Partner may not include misleading statements in product literature that imply a product is approved or certified by the EPA, i.e., Partner shall not make claims such as "This TV is EPA approved," or "This VCR is EPA certified."

K. Energy-Saving Features and Product Performance

ENERGY STAR Partner agrees to ensure that the energy-saving features or design of the ENERGY STAR compliant product will not interfere with or adversely impact the performance of the product.

V. EPA's Responsibilities

A. Appointment of Liaison

EPA agrees to designate a single liaison point for the ENERGY STAR Program, and to notify Partner within one month of any change in liaison responsibilities. Please send the signed MOU and other correspondence to this person. (See Attachment.)

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B. Product Testing

EPA agrees to accept the certification by the Partner, whether it is self-determined or determined by an independent third party, that their qualifying product models satisfy the specifications set forth in this MOU. While this is a self-certifying process, EPA reserves the right to conduct tests on products bearing the ENERGY STAR logo from either the open market or other available sources, or voluntarily received from Partner.

C. Consumer Acceptance

EPA agrees to make an effort to encourage consumer acceptance of products introduced under this agreement and bearing the ENERGY STAR logo.

D. Public Recognition

EPA agrees to provide Partner with recognition for its public service in protecting the environment by performing analyses about the pollution prevented by corporate participants, and providing this and other program information to appropriate news media sources for publication.

E. Consumer Education

EPA agrees to promote energy-efficient equipment, and to inform consumers about the ENERGY STAR Program and the ENERGY STAR logo by writing articles and/or by cooperating with the news media by sharing information, where appropriate.

F. Public Service Advertisements

EPA agrees to work with Partner independently and/or in conjunction with other Partners to coordinate the placement of advertisements to promote energy-efficient equipment, educate consumers about the ENERGY STAR Program and logo, and provide Partner with due recognition for its public service in protecting the environment.

VI. Use of the ENERGY STAR Logo and Name

A. ENERGY STAR Materials

EPA agrees to loan Partner, at no charge, materials from which Partner can reproduce the ENERGY STAR logo.

B. Associating Logo with Qualifying Models

It is the responsibility of the Partner to associate EPA, the ENERGY STAR logo and name, and the ENERGY STAR Program only with those specific models that qualify under the terms and conditions of this MOU. See attached EPA ENERGY STAR Logo Use Guidelines for more details and specific examples.

C. Referring to the ENERGY STAR Logo

When the ENERGY STAR logo is used, Partner agrees that it shall be accompanied by the following statement: "As an ENERGY STAR® Partner, FIELD(COMPANY) has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency." When the ENERGY STAR logo is applied directly to the product, Partner may place this statement in the user's manual.

D. Registered Marks

ENERGY STAR Partner understands that the ENERGY STAR® name and the ENERGY STAR logo are registered marks of the United States Government as represented by the Administrator of EPA,

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and are subject to the provisions of Title 15, Chapter 22, United States Code, the various state laws applicable to trademarks, and this Memorandum of Understanding. As such, the Partner shall note this registered status, as appropriate. This may include: (a) inserting the registered symbol, ®, next to the ENERGY STAR name (i.e., ENERGY STAR®) each time it appears in a brochure, poster, advertisement, or other document, or (b) providing the following statement: "ENERGY STAR is a U.S. registered mark." See the attached EPA ENERGY STAR Logo Use Guidelines for more details.

E. Endorsement

Partner may not utilize the logo in a manner that might imply EPA endorsement of the Partner or of Partner's products.

F. Altering Logo

ENERGY STAR Partner agrees not to alter the ENERGY STAR logo except in the ways described in the ENERGY STAR Logo Use Guidelines.

G. Termination of Agreement

If either EPA or Partner terminates this Agreement, Partner will no longer be entitled to apply the ENERGY STAR logo to newly manufactured products, and will no longer make reference to the ENERGY STAR Program so as to construe continuing involvement in the program. Any products bearing the logo that have been shipped by the Partner prior to program termination may continue to bear the logo until the product model is discontinued.

VII. Conflict Resolution

A. Good Faith Principle

Each party agrees to assume good faith as a general principle for resolving conflicts under the ENERGY STAR Program.

B. Notification of Problems

Both parties agree to notify each other informally if any problems or issues arise and to work together to provide maximum public confidence in the program.

C. Procedure for Addressing Noncompliant Products

1. If EPA receives information that one or more products certified by Partner as ENERGY STAR compliant may not meet all of the terms of this MOU, then EPA will immediately notify Partner and attempt to address and resolve the problem informally.

2. If these informal discussions do not produce a mutually agreeable resolution, EPA will notify Partner in writing that Partner shall be terminated from the program unless it undertakes the specific corrective actions sought by EPA. Partner agrees to reply to EPA in writing within 20 business days of receiving EPA's letter. At that time, Partner shall agree to do one of the following: (a) undertake in a timely and effective manner, the corrective actions sought by EPA; or (b) voluntarily terminate this agreement. If Partner does not respond to EPA's letter within 20 business days, or responds but does not agree to either (a) or (b), then this agreement is terminated.

D. Notification in Writing

If ENERGY STAR Partner believes that EPA is not meeting all of its commitments, Partner agrees to notify EPA formally in writing. EPA agrees to respond in writing within 20 business days of receiving ENERGY STAR Partner's letter. At that time, EPA will do one of the following: (a) undertake

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the corrective actions sought by Partner, or (b) explain why such corrective actions cannot be undertaken.

VIII. Freedom of Information Act and Confidential Business Information

Both parties understand that information provided by Partner to EPA will be treated pursuant to EPA's public information regulations under 40 Code of Federal Regulations, Part Two.

* * * * *

The undersigned hereby execute this Memorandum of Understanding on behalf of their parties. The signer of this agreement affirms that he/she has the authority to commit Partner to participation in the ENERGY STAR TV/VCR Program.

For the U.S. Environmental Protection Agency (EPA):

Signature: _____

Date: _____

Name: Paul M. Stolpman

Title: Director, Office of Atmospheric Programs

FIELD(COMPANY):

Signature: _____

Date: _____

Name: _____

Title: _____

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ATTACHMENT

Please complete and return with the signed Memorandum of Understanding.

EPA Contact:

Stephan Sylvan, Program Manager
ENERGY STAR TV/VCR Program
US EPA (MC: 6202J)
401 M Street, SW
Washington, DC 20460

Overnight Delivery Address:

Stephan Sylvan, Program Manager
ENERGY STAR TV/VCR Program
501 3rd Street, 4th Floor, NW
Washington, DC 20001
Tel: (202) 233-9307
Tel: (202) 564-9307 (as of Nov. 21, 1997)

FIELD(COMPANY)'s Contacts:

Primary Contact (to receive all administrative materials):

Name:
Title:
Address:
City, State, ZIP:
Telephone Number:
Fax Number:
E-mail Address:
Location of US Headquarters:

Marketing/PR Contact (to receive promotional/marketing materials and info.):

Name:
Title:
Address:
City, State, ZIP:
Telephone Number:
Fax Number:
E-mail Address:

Switchboard Number or Sales Number (to be given to public for further information on all products):

Telephone Number:
Fax Number:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

lab-EPA

'97 NOV 7 PM5:31

OFFICE OF
THE ADMINISTRATOR

TO:

TODD STERN / JONATHAN ADASHEK
@ 456 - 2215

FROM:

LORETTA ULEW

COMMENTS:

TODD: - WE ARE GATHERING ADDITIONAL
INFORMATION ON ENERGY STAR, PER
YOUR REQUEST. PLEASE CALL ME AT
260-9828 OR PAGE 1-800-SKY-PAGE

Number of Pages to follow: 1

Date: 11/7/97

Time: 5:31 PM

#471-0479, IF YOU
HAVE ANY QUESTIONS.

Transmission Number:

(202) 260-3684

- LORETTA

Verification Number:

(202) 260-7960 or 260-9828

Office of the Administrator
401 M Street, S.W.
Room 1204 West Tower
Mail Code: 1101



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November 7, 1997

MEMORANDUM TO TODD STERN

FROM: LORETTA UCELLI

SUBJECT: PRESIDENTIAL EVENT WITH TV/VCR MANUFACTURERS

Below is the beginning of a draft press release for a possible presidential event next Thursday (11/13) with the TV/VCR manufacturing industry to help reduce air pollution that causes global warming by promoting energy efficiency. If you have any questions or would like us to further develop this press release, please call me or Stephanie Cutter at 202/260-9828.

DRAFT PRESS RELEASE:

In an action that will help curb air pollution that contributes to global warming, industry leaders from the top TV and VCR manufacturers today pledged to President Clinton that they would market new products that use significantly less energy than products currently on the market, without any changes in quality or price.

Americans spend over \$1 billion per year on electricity leaked from televisions after they have been turned off. The new products will reduce this leakage by 50% or more. Wasted electricity from TVs and VCRs results in the unnecessary release into the air of over 10 million tons of carbon dioxide -- a form of pollution that causes global warming. Over the next decade, over 90% of all projected growth in greenhouse gas emissions from American homes will come from TVs, VCRs, and other consumer electronics and small electric appliances.

At a Circuit City home electronics store in Arlington, Virginia, President Clinton said, "Reducing the pollution that causes global warming poses serious and significant challenges that we can and must meet. Today's announcement is proof that if we work together as a nation, curbing global warming can be as easy as turning on the television. I commend the home electronics industry for their innovation, hard work, and commitment."

Under this new partnership with the federal government, (Sony, Panasonic, Thompson, etc.) will market products that display the ENERGY STAR logo. This label certifies that the products are energy efficient and will save consumers money, while curbing the air pollution that causes global warming.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

CAS-EPA

OFFICE OF
THE ADMINISTRATOR

TO:

JONATHAN APASHER / TODD STERN
456 - 2215

FROM:

LORETTA UCELLI

COMMENTS:

TODD - HERE IS THE INFORMATION
ON ENERGY STAR -- WE CAN REFINE
THIS AND PROFILE SPECIFIC PRODUCTS

- LORETTA

Number of Pages to follow: 1

Date:

Time:

Transmission Number: (202) 260-3684

Verification Number: (202) 260-7960 or 260-9828

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401 M Street, S.W.
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Mail Code: 1101



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Facts on Energy Star
November 7, 1997

The following products are already covered by the Energy Star label:

- computers and monitors
- fax machines
- copiers
- printers
- refrigerators
- heat pumps and furnaces
- air conditioners
- programmable thermostats
- residential lighting fixtures
- washing machines
- Dishwashers
- Exit signs
- newly constructed homes

These partnerships already cover a majority of residential energy use.

Total number of manufacturer partners: over 500

Total number of Energy Star products available: Over 2,000

To date, the Energy Star labeling partnerships have:

- prevented over 13 million tons of carbon dioxide from being emitted to our atmosphere, which is equivalent to the pollution generated by over 3 million cars in a year.
- conserved over 20 billion kilowatt hours of electricity.
- saved consumers and businesses over \$1.5 billion on their energy bills.

If over the next 15 years everyone were to buy only those energy-efficient products marked in stores with EPA and DOE's distinctive "Energy Star" label, we could:

- shrink our energy bills by a total of about \$100 billion over the next 15 years.
- shrink U.S. greenhouse gas emissions by a total of about 1,400 million tons of carbon dioxide (note: equivalent to 380 million metric tons of carbon equivalent, or mmtce).



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

605 - EPA

'97 NOV 7 PM 5:31

OFFICE OF
THE ADMINISTRATOR

TO:

TODD STERN / JONATHAN ADASHEK
@ 456 - 2215

FROM:

LORETTA WELCH

COMMENTS:

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- LORETTA

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401 M Street, S.W.
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November 7, 1997

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At a Circuit City home electronics store in Arlington, Virginia, President Clinton said, "Reducing the pollution that causes global warming poses serious and significant challenges that we can and must meet. Today's announcement is proof that if we work together as a nation, curbing global warming can be as easy as turning on the television. I commend the home electronics industry for their innovation, hard work, and commitment."

Under this new partnership with the federal government, (Sony, Panasonic, Thompson, etc.) will market products that display the ENERGY STAR logo. This label certifies that the products are energy efficient and will save consumers money, while curbing the air pollution that causes global warming.

cc: Elliot Diring, CEQ

EPA

**White House Climate Change Task Force**

734 Jackson Place, N.W. • Washington, DC 20503

FAX**To:** *Todd***Organization/Title:****Fax:** *456-2215***Phone:** *456-***Pages (including cover):** *5***Date:** *11/4/97***From:** *Natalie***Phone:** *343-1074*

Message: *EPA wants to give this to press.
Is this a good idea?*

*I'm going to go to the Wirth/EU
press briefing today at 12:30.*

FAX...FAX...FAX...FAX...FAX...FAX...FAX...FAX...FAX...FAX...



US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF AIR AND RADIATION
IMMEDIATE OFFICE - fax (202) 260-5155
phone (202) 260-7400

TO: Steve Seidel Dina Kruger	FAX#: 313 1163 / 260-9569
	PHONE#:
FROM: David Dominguez	PHONE#: 260 2845

COMMENTS:

Analysis of
EU + Japan
proposals

page 1 of 4 (including cover sheet)

OFFICE OF AIR AND RADIATION FAX AND PHONE NUMBERS

office	fax	phone	mailcode	room number
Immediate office	(202) 260-5155	(202) 260-7400	6101	937WT
OAQPS -DC	(202) 260-0451	(202) 260-5575	6101	933WT
OPMO	(202) 260-4185	(202) 260-7415	6102	947WT
OMS	(202) 260-3730	(202) 260-7645	6401	901WT
ORIA	(202) 233-9651	(202) 233-9320	6601	Judiciary Square
OAP	(202) 233-9586	(202) 233-9140	6201	Judiciary Square
OPAR	(202) 260-9766	(202) 260-5580	6103	925WT
OAQPS - NC	(919) 541-2462	(919) 541-5616	MD-10	

DAVID DOWIGER: 240-5155

An Analysis of Effects Of Different Proposals on Annex 1 GHG Emissions

A number of proposals have been offered as options for targets for the Protocol being negotiated by the AGBM. The US proposal covers all greenhouse gases (GHGs), including removals of CO₂ by sinks; the legally binding target is a return to 1990 net emissions levels. The EU and Japanese proposals leave certain gases out of the basket: the HFCs, PFCs, and SF₆, which have high Global Warming Potentials (GWPs) and long lifetimes. They also leave out removals of CO₂ by sinks. Reduction targets range up to 15%. But, is it correct simply to compare the percentages?

The US believes that these exclusions from the comprehensive basket have a substantial effect on the total amount of GHGs that will be emitted by Annex I Parties in the period around 2010. If left outside of the target, emissions of the "high-GWP" gases are likely to increase significantly from 1990 levels. Emissions and removals by sinks will also change significantly from 1990 levels if left outside the target. If one includes the projected emissions of the high-GWP gases, and the projected removals of CO₂ by sinks, one can then compare the effective emissions levels that may be seen by the atmosphere in 2010 under each regime. These estimates are based on available data and reasonable projections of future emission trends as explained below.

Our conclusion is that with the addition of the excluded gases and removals by sinks, the EU proposal represents a little more than a 5% reduction as compared with a comprehensive target of 1990 levels in 2010. On the same basis, the Japanese proposal appears to allow higher emissions levels than a comprehensive target of 1990 levels in 2010.

Determining the Targets for All of Annex I

All of the targets are derived from 1990 emission levels. Two variants are presented for the Japanese proposal, to examine the differentiation options given. The effect of the proposal on total Annex I emissions would be difficult to determine with certainty at this time.

Table 1. Targets (billion metric tonnes, carbon equivalent)

	US proposal (stabilization, all gases & removals by sinks)	EU proposal (-15%, 3 gas basket, no removals by sinks)	Japan proposal 1 (-5%, 3 gas basket, no removals by sinks)	Japan proposal 2 (-2.5%, 3 gas basket, no removals by sinks)
CO ₂ +CH ₄ +N ₂ O	5.04	4.28	4.79	4.91
HFC+PFC+SF ₆	0.06	(not included)	(not included)	(not included)
Removals by sinks	-0.31	(not included)	(not included)	(not included)
Target: emissions allowed	4.79	4.28	4.79	4.91

It should be noted that, on this basis, the total Annex I emissions allowed under US target rank between the Japanese and the EU proposals.

Input to the Atmosphere for all of Annex I:

Table 2. 2010 Emissions (billion metric tonnes, carbon equivalent)

	US proposal (stabilization, all gases & removals by sinks)	EU proposal (-15%, 3 gas basket, no removals by sinks)	Japan proposal 1 (-5%, 3 gas basket, no removals by sinks)	Japan proposal 2 (-2.5%, 3 gas basket, no removals by sinks)
Target: emissions allowed (from Table 1)	4.79	4.28	4.79	4.91
Projected emissions of HFC+PFC+SF6	(included in target)	0.54	0.54	0.54
Projected Removals by Sinks	(included in target)	-0.28	-0.28	-0.28
Projected total emissions of all GHGs	4.79	4.54	5.05	5.17
% change relative to 1990 levels	0%	-5.2%	+5.4%	+7.9%

In this table, projected emissions of the high-GWP gases and projected levels of removals by sinks for all of Annex I have been added to the controlled emissions levels of the targets. Removals by sinks are projected to be lower in 2010 than 1990 levels, even when including the measures that Parties are currently undertaking. A target that includes removals by sinks will encourage actions that result in larger removals of CO₂ by sinks. Similarly, inclusion of the high-GWP gases would create a systematic incentive to further control emissions of these gases.

How these estimate were made:

High-GWP gases. The projected Annex I emissions for HFCs, PFCs and SF₆ are taken from the USEPA Atmospheric Stabilization Framework (ASF) model, a model that forecasts worldwide emissions of GHGs on a regional basis. The model has been used in various US analyses, and as an input to the IS92 scenarios for the IPCC. The ASF model simulates replacement of ozone-depleting substances with HFCs and PFCs. Projections include estimates of leaks from equipment over time. The model also estimates industrial emissions of PFCs and SF₆. These projections have been updated, taking into account recent information on the timing of the phaseout of gases controlled by the Montreal Protocol, and expected market penetration of CFC-substitutes. We used this model because there is insufficient data reported in the Parties' National Communications and the Compilation and Synthesis reports to make global projections.

These growth estimates are by their nature uncertain. These estimates do not take into account possible but as-yet un-implemented policies and measures outside of a target. If 2010 levels of high-GWP gases were assumed to be one half the estimated amount presented here (i.e. 0.27 billion metric tonnes), the relative differences in 2010 emission levels between the four proposals would represent a change from total 1990 emissions of 0%, -10.6%, +0.2%, and +2.5% respectively.

Sinks. Base year estimates for removals by sinks are from the National Communication information provided in the Compilation and Synthesis reports. The projection for removals by sinks in Annex I is based on estimates reported by the Parties and contained in the First Compilation and Synthesis of the Second National Communications from Annex I Parties, Addendum, FCCC/SBI/1997/19/Add. 1. Twelve countries reported estimates of removals by sinks for 2010, which we extrapolated to all Annex I Parties.

We believe that these are reasonable estimates based on available data. The US is willing to work with Parties, and the IPCC, to develop better projections for emissions of these gases and removals by sinks to examine the effects of the various proposals.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
THE ADMINISTRATOR

TO: Todd Stern
434 2215

FROM: Laetta Chelli
260 9828

COMMENTS: _____

Number of Pages to follow: 2
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August 22, 1997

MEMORANDUM TO TODD STERN AND KRIS BALDERSTON, THE WHITE HOUSE

FROM: LORETTA UCELLI, EPA

SUBJECT: CLIMATE CHANGE OUTREACH

Administrator Browner will participate in the following events and activities in advance of the White House Conference on Climate Change to help educate the audience on the health and environmental problems caused by global climate change, and the need to find flexible, common sense, cost-effective ways to reduce the pollution that causes it.

Events/Speeches:

- **Washington, D.C.:** We are working with Secretary Cohen's office to schedule an event the week of September 15-19 with Secretary Cohen and Administrator Browner to demonstrate the Department of Defense's efforts to increase energy efficiency and reduce emissions that lead to global warming.
- **Tallahassee, Florida:** On September 19, Administrator Browner will speak to faculty, students and state and community leaders at **Florida State University**.
- **Baltimore, MD:** On September 20, Administrator Browner will address the issue at the **Socially Responsible Business Awards** conference in Baltimore Maryland.
- **Chicago, IL:** We are working to schedule Administrator Browner to speak to the **Chicago City Club** on September 30.
- **Boston, MA:** On October 3, Administrator Browner will speak about climate change to the **Environmental Business Council** in Boston, MA.

Editorial Boards: We are working to schedule meetings with the following editorial boards for Administrator Browner:

<i>Miami Herald</i>	August 27
<i>Kansas City Star</i>	September 3
<i>Hartford Courant</i>	September 8
<i>Tallahassee Democrat</i>	September 19
<i>Chicago Tribune</i>	September 30
<i>Boston Globe</i>	October 3

We are also in the process of setting up phone interviews with the following editorial boards:

St. Louis Post Dispatch
Milwaukee Journal
Minneapolis Star Tribune
Los Angeles Times
San Francisco Chronicle
Seattle Times
Portland Oregonian

Opinion Editorials: We are drafting an opinion piece for submission to newspapers in 2nd tier media markets on Clinton Administration efforts to find ways to protect public health and the environment through common sense, cost effective market based solutions to curb global climate change. This piece could be co-signed by an Administration official from an economic agency, such as Secretary Daley.

Radio: We are looking into scheduling Administrator Browner on various radio programs focused on the environment.

These events and activities will involve the following message:

- Climate change is a real problem facing this nation that needs to be addressed through programs that protect public health while, at the same time, allow the nation to maintain its leadership and competitiveness in the world economy.
- Economic growth and environmental and public health protection go hand in hand. Through advancements in technology and innovations in market-based pollution reduction programs, we can curb climate altering emissions through flexible, common sense and cost effective solutions.
- Because this is a global problem, all nations — at all levels of development -- have a responsibility to take action to reduce their emissions to protect against climate change.

We are in the process of finalizing the Administrator's schedule for the upcoming months, and will update you as new climate change events become firm. If you have any comments or changes to the above message and schedule, please call me or Stephanie Cutter at 260-9828.

cc: Natalie Wymer

EPA CLIMATE CHANGE COMMUNICATIONS PLAN

Administrator's Activities

Aug. 4 - CMB speech to Newspaper Bureau Chiefs' luncheon - main topic is clean air rules but global warming technology solutions could also be included

Aug. 7 - CMB remarks to Clean Air Act Advisory Committee meeting - main topic is clean air rules but global warming technology solutions could also be included

September 20 - CMB keynote address to Socially Responsible Business Awards breakfast, Baltimore - topic is global warming technology solutions

September or October, date TBD - Speech to Ford Hall Forum, Boston - topic is global warming technology solutions

(T) September or October, date TBD - Speech to Environmental Business Council conference, New Hampshire - topic would be global warming technology solutions

(T) September 22 - President's Council for Sustainable Development, Tulsa, OK - variety of topics, certainly could include global warming technology solutions

(T) September 23 - Speech to Environmental Council of the States annual meeting - variety of topics, would include global warming technology solutions

(T) November 1-5 - CMB speech to American Academy of Pediatrics Conference - topics would include global warming

(T) November 6-8 - CMB speech to Business for Social Responsibility conference, Los Angeles, CA - topic would be global warming technology solutions

November 13 - Speech to American Public Health Association, Indianapolis - topics could include global warming

(T) Date to be determined - potential event highlighting energy efficient technology with retail partner such as Circuit City and DOE

(T) Date to be determined - potential visit to a manufacturer of Energy Star equipment

(T) Date to be determined - potential event with DOD (joined EPA's Energy Star homes program) or US Postal Service (joining EPA's Energy Star buildings program)

Other Ongoing EPA Activities

July 25 - First meeting of EPA advisory committee on air quality, energy, and climate change (businesses, environmental groups, state and local governments)

September date TBD - Second meeting of above advisory committee

September (?) - Document release: "Wise Rules for Industrial Efficiency: A Tool Kit for Estimating Energy Savings and Greenhouse Gas Emissions Reductions"

September 3 - Southwest Regional Climate Change Symposium, Tucson, AZ

September 4 - Business briefing on Climate Change, Washington, DC, hosted by Climate Wise and Business for Social Responsibility

September 10 - EPA Climate Change Workshop, Chicago, IL

September 11-12 - EPA State and Local National Climate Change Conference, Chicago, IL

September 16 - EPA Climate Change Workshop, Atlanta, GA

(T) October 28 - EPA Climate Change Workshop - Dallas, TX

Date TBD: Constituency Briefing with Business Council for Sustainable Energy
 Constituency Briefing with International Partnership for Climate Change
 Constituency Briefing with Computer and Electronics Industry
 Constituency Briefing with companies in EPA voluntary program "Climate Wise"
 Constituency Briefing with companies in EPA Air Office's voluntary programs