2007 Survey of Industrial Research and Development Form RD-1 Instructions

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2007 Survey of Industrial Research and Development Form RD-1 General Instructions

Changes from 2006 to 2007 R&D survey year

Data supplied in all items for 2007 on this form will satisfy the mandatory reporting requirements. (Title 13, U.S. Code)

How this information is used

Information about corporate research and development (R&D) activities is important in assessing our nation's scientific and technological resources. Your survey answers help us to provide national data on industrial R&D. This information is not available from any other source. Your participation is appreciated so that we can produce timely and comprehensive data.

Who fills out this survey?

U.S. publicly traded and privately owned, nonfarm business firms

This survey does **not** include:

- Operations owned by Federal, state, or local governments
- Nonprofit organizations
- Trust or pension plans performing only investments

If you received this form in error, please explain in the Remarks section on page 18 of the survey form and return the form.

AUTHORITY AND CONFIDENTIALITY – Your response is required by law (Title 13, United States Code). By section 9 of the same law, your report is confidential. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information, and may be used only for statistical purposes. The law also provides that copies of your report retained in your files are immune from legal process. Response is not required to any information collection form unless it displays a valid approval number from the Office of Management and Budget. This 8-digit number appears in the upper right corner of the form.

Which company operations should you include in your survey answers?

Report all domestic operations of your **entire consolidated domestic enterprise**, including all U.S. subsidiaries.

Report all parts of the company located in the 50 United States and the District of Columbia (D.C.), except where indicated differently.

For holding companies, report for all U.S. subsidiaries under the ownership and control of the holding company.

EXCEPTION: If you report separately for a component of this company based upon an arrangement with the Census Bureau, please continue to do so.

Reporting period for your survey answers

Please provide calendar year 2007 information, if possible. If not, please use your fiscal year ending between September 2007 and March 2008

Comparing your 2006 and 2007 responses

If your company reported for 2006, entries from that form are preprinted on this form. (If you would like to correct these figures, please do so.) If your answers for 2007 are substantially higher or lower than your 2006 answers, you may comment on the reasons in the Remarks section on page 18 of the survey form. Such reasons may include new government contracts, a revised accounting method, or an R&D unit that was acquired or disposed of during 2006 or 2007.

How to report tax incentives for R&D

The Federal government and many states offer incentives for research and development activity. For purposes of this survey, please report your total R&D expenditures regardless of any tax incentives.

For further information on the Federal research tax credit please go to:

http://www.irs.gov/businesses/

For further information on state tax incentives, please contact the Comptroller of the Treasury in your state.

To request more time to complete your form or additional copies of the form

Please provide your 11-digit identification number (ID) as printed on the form above your address when you contact us.

For more time, call the Census Touchtone Data Entry System: 1–800–851–2014.

For official copies of the form, call 1–800–528–3049.

OR

Write: U.S. Census Bureau 1201 East 10th Street

Jeffersonville, IN 47132-0001

To obtain a sample copy of the form, please visit the following web site. However, that sample copy **cannot** be used to submit your survey response because it lacks the appropriate labeling.

http://www.census.gov/econhelp/rd

For answers to your questions regarding this form

Write:

U.S. Census Bureau, Manufacturing and Construction Division ATTN: Special Studies Branch Room 7K146 Washington, DC 20233–6900

Phone:

1-800-851-2014 (option "0")

Use our web site at http://www.census.gov/econhelp/rd

- Submit e-mail via our secure server to encrypt your message and to keep your survey participation confidential
- See answers to frequently asked questions

Electronic alternative for reporting

An electronic questionnaire may be used to report your responses. This electronic alternative potentially saves time for you and helps us to reduce processing costs. If you use the electronic alternative, please do **not** mail in the paper form. For questions about installing or using the electronic questionnaire, please call the Electronic Reporting Staff at 800–838–2640.

The system requirements for the electronic questionnaire are:

- 1. Microsoft Windows 98 or higher
- 2. Microsoft Internet Explorer or Netscape Navigator 4.0 or above (128-bit encryption)
- 3. If you set your screen display for the 16-bit color or higher, the forms will be easier to read. The forms are harder to read with 256-color display.

Have your username (UID) and password (PW) handy. The username and password are case sensitive.

- 1. Go to the Business Help Site at: www.census.gov/econhelp/rd
- 2. Click on Electronic Reporting
- 3. Follow the instructions for downloading software.

Transmitting your data

You may transmit you completed data to the Census Bureau electronically via Internet, or by mail.

WARNING CONCERNING ELECTRONIC MAIL: The Internet is not a secure means of transmitting information unless it is encrypted. If you choose to communicate with the Census Bureau via electronic mail, the Census Bureau cannot guarantee the privacy of the information while transmitted, but will safeguard it in accordance with Title 13. Be advised that making inquiries regarding this survey via electronic mail may divulge your participation in this survey.

Burden hour estimate

Public reporting burden for this collection of information is estimated to average 8 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspects of this collection of information, including suggestions for reducing this burden to:

Paperwork Project 0607-0912 U.S. Census Bureau 4600 Silver Hill Road Washington, DC 20233

You may e-mail comments to Paperwork@census.gov; use "Paperwork Project 0607-0912" as the subject.

Survey Definitions of R&D

R&D includes the following:

- the planned, systematic pursuit of new knowledge or understanding toward general application (basic research);
- the acquisition of knowledge or understanding to meet a specific, recognized need (applied research); and
- the application of knowledge or understanding toward the production or improvement of a product, service, process, or method (development).

This survey covers industrial R&D performed by people who are

- 1) trained—either formally or by experience—in engineering or in the physical, biological, mathematical, statistical, or computer sciences, and
- 2) employed by a publicly or privately owned firm engaged in for-profit activity in the 50 United States and D.C. (This also includes R&D they may perform **outside** of the 50 United States and D.C.)

This survey specifically **excludes** quality control, routine product testing, market research, sales promotion, sales service, and other nontechnological activities; routine technical services; and research in the social sciences or psychology.

This survey defines basic research, applied research, and development as follows:

Basic research is the pursuit of new scientific knowledge or understanding that does not have specific immediate commercial objectives, although it may be in fields of present or potential commercial interest.

Applied research applies the findings of basic research or other existing knowledge toward discovering new scientific knowledge that has specific commercial objectives with respect to new products, services, processes, or methods.

Development is the systematic use of the knowledge or understanding gained from research or practical experience directed toward the production or significant improvement of useful products, services, processes, or methods, including the design and development of prototypes, materials, devices, and systems.

Types of R&D activities to consider for this survey

Types of R&D activities to consider for this survey		
INCLUDE:	EXCLUDE:	
Activities that incorporate:	 R&D from acquired companies prior to acquisition (in-process R&D) 	
 Basic and applied research in the sciences and engineering 	Amortization above the actual cost of property and equipment related to your R&D activities	
 Design and development of new products and processes 	Testing and evaluation once a prototype becomes a production model	
 Enhancement of existing products and processes 	Routine product testing	
 Activities carried on by persons trained, either formally or by experience, in: 	Geological and geophysical exploration activities	
 Biological sciences (e.g., medicine) 	Technical services such as:	
 Computer science 	 Quality and quantity control 	
– Engineering	- Technical plant sanitation control	
- Mathematical and statistical sciences	 Troubleshooting in connection with breakdowns in full-scale production 	
- Physical sciences (e.g., chemistry and physics)	Advertising programs to promote	
Activities that take place in:	or demonstrate new products or processes	
 Separate R&D organizational units of the company 	 Assistance in preparation of speeches and publications for persons not engaged in R&D 	
 Company laboratories 	Social science R&D including:	
Technical groups not part of an R&D organization	Personnel R&D	
organization	- Economic R&D	
	 Artificial intelligence and expert systems R&D 	
	 Consumer, market, and opinion R&D 	
	Engineering psychology R&D	
	 Management and organization R&D 	
	 Actuarial and demographic R&D 	
	 Educational processes and applications R&D 	
	- R&D in law	

Question-by-Question Instructions

Question 1 Was this company owned or controlled by another company on December 31, 2007?

Question 1 asks about your company's ownership as of December 31, 2007.

If "yes," your company was owned or controlled by another company on December 31, 2007, follow the appropriate instructions below:

Your situation	Action to take
Your company was purchased by another company on or prior to March 31, 2007, located in the 50 United States or D.C.	Note the new owner and purchase date under the Remarks section on page 18 of the form and return the form without completing the rest of it.
Your company was purchased by another company after March 31, 2007, located in the 50 United States or D.C.	Note the new owner and purchase date under the Remarks section on page 18 of the form. Complete the rest of the form for the months prior to the purchase of your company.
Your company was owned or controlled by one or more companies located outside the 50 United States or D.C.	Note the new owner under the Remarks section on page 18 of the form and complete the rest of the form.

If you have questions, please call the R&D Survey staff at 1-800-851-2014 (option "0") to determine whether you are required to complete the form.

Question 2 What was the amount of your company's sales, shipments, operating receipts, or revenues, net of returns and allowances attributable to domestic operations in the 50 United States or D.C. during 2007?

Question 2 covers domestic company sales. Report only the parts of your company located **within** the 50 United States or D.C.

Sales, operating receipts, and operations of the	
company, net of returns and allowances	Sales and other taxes collected and paid directly to government taxing agencies
 Receipts from sales of products and services provided to other companies, individuals, U.S. Government agencies, and foreign countries Net selling value of shipments, f.o.b. (freight on board) plant, after discounts and allowances minus freight charges and excise taxes Revenue from investments, rents, and royalties only if it is the principal business of the company Interest, dividends, commissions, and rental income as part of revenues only if you are a finance, insurance, or real estate company Value of assets sold under a capital lease agreement 	 Domestic intracompany transfers Receipts from sale of products and services provided by your foreign subsidiaries and affiliates Receipts from sale of products and services provided by your subsidiaries and affiliates in Puerto Rico and other U.S. territories <i>outside</i> the 50 United States and D.C. Income from interest, dividends, and commissions (Exception: Companies in the finance, insurance, and real estate industries) Other nonoperating income (e.g., royalties)

Question 3 How many employees worked in the 50 United States or D.C. for your company on March 12, 2007?

Question 3 covers domestic company employment. Report only the parts of your company located **within** the 50 United States or D.C.

INCLUDE:

- Full- and part-time employees of the company as defined on Treasury Form 941, Employer's Quarterly Federal Tax Return, and Circular E, Employer's Tax Guide, if filed for the entire company
- Number of employees in all activities within the 50 United States or D.C. during the pay period that includes March 12, 2007
- Persons on paid sick leave, paid holidays, and paid vacations during the pay period that includes March 12. 2007

Question 4 What was the number of full-time equivalent (FTE) scientists and engineers employed by your company as of January 1, 2008 who worked on the following types of R&D in the 50 United States and D.C. during 2007?

Question 4 covers the scientists and engineers who are employees of your company and perform R&D activities. It asks for the number of full-time equivalent (FTE) scientists and engineers who work on your company's R&D **within** the 50 United States or D.C.

There are two steps to calculate the number of FTEs for R&D scientists and engineers:

- 1. For company employees performing only research and development, count the number of scientists and engineers employed in January 2008.
- 2. For employees whose activities are not solely devoted to R&D, use the proportion of their time that is devoted to R&D to compute the number of fulltime equivalent R&D scientists and engineers. For example, if a company had 60 scientists and engineers in January 2008 and one-fourth of their time was charged to R&D projects, then that company would have 15 full-time equivalent R&D scientists and engineers. Add these full-time equivalents to the count from the previous step.

INCLUDE:

- All persons engaged in scientific or engineering work at a level that requires knowledge of physical or life sciences or engineering or mathematics
- Persons with experience equivalent to completion of a 4-year college course with majors in these fields, regardless of whether they actually hold degrees in the fields

Question 5 What was the cost of R&D performed within your company in the 50 United States and D.C. from each of the sources of funding below during 2007?

Question 5 covers the R&D that is performed both (1) **within** your company and (2) **within** the 50 United States and D.C.

INCLUDE:	EXCLUDE:
Wages, salaries, and related costs	Expenses of acquired companies for R&D performed prior to acquisition (in-process)
Materials and supplies consumed	R&D)
R&D depreciation	Capital expenditures
Cost of computer software used in R&D activities	Testing and evaluation once a prototype becomes a production model
Utilities, such as telephone, telex, electricity, water and gas	Patent expenses
Travel costs and profession dues	Income taxes and interest
Property taxes and other taxes (except income taxes) incurred on account of the R&D organization or the facilities they use	
Insurance expenses	
Maintenance and repair, including maintenance of buildings and grounds	
Company overhead including: personnel, accounting, procurement and inventory, and salaries of research executives not on the payroll of the R&D organization	

Instructions for Question 5

How to decide which category of R&D

1. Basic research	Projects that pursue new scientific knowledge or understanding that does not have specific immediate commercial objectives, although it may be in fields of present or potential commercial interest Example: A project looks at the characteristics of silicon that has been impregnated with different elements. This project seeks to improve the company's understanding of semiconductors. Its results may or may not be applicable to the company's existing or planned product lines.	
2. Applied research	Projects that apply the findings of basic research or other existing knowledge toward discovering new scientific knowledge that has specific commercial objectives with respect to new products, services, processes, or methods Example: A project seeks to discover ways to reduce the power requirements of microchips. Although the outcome of this project is uncertain, positive results would improve the energy efficiency for future products.	
3. Development	Projects that are directed toward the systematic use of the knowledge or understanding gained from research or practical experience directed toward the production or significant improvement of useful products, services, processes, or methods, including the design and development of prototypes, materials, devices, and systems	
	Example: A project designs and develops a microprocessor for cellular phones. The goal of this project is a new product that would generate revenue for the company.	
Development includes:		Development excludes:
	ning and conducting clinical ceuticals, or other products rketed	Software development intended for within company use only
Software development		Routine technical services to customers Technical instant technical te
 Designing and/or adapting software if the application has commercial value (exclude software development for internal use) 		 Tool making and tool tryout Production of detailed construction drawings and manufacturing blueprints
Beta version of software being developed that has potential commercial application		
Design and operation of pilot plants and semiwork plants		
Engineering activity required to advance the design of a product or process so it meets specific functional and economic requirements		
Design, construction, and testing of prototypes and models including test models for defense contracts		
Designs for special manufacturing equipment and tools		
 Preparation of reports, drawings, formulas, specifications, standards practice instructions, or operating manuals 		

Question 5 (continued)

How to decide which category to use for sources of R&D funding

Source of R&D	INCLUDE:	EXCLUDE:
Federal funds	 Federally funded R&D performed within the company. Include only the amount of work done on Federal R&D contracts or subcontracts in the current year. R&D portion of procurement contracts or subcontracts 	 Federally funded R&D contracted or subcontracted to or otherwise by others <i>outside</i> of your company. (Report such funds in Question 7.) Expenditures for independent research and development (IR&D). (Report in column 2, Company and other nonfederal funds.)
Company and other nonfederal funds	 R&D from company and other nonfederal sources that is performed within the company NOTE that "company and other nonfederal funds" and "company funded" are used interchangeably in the Form RD-1. R&D your company performs under contracts you have with non-Federal sources Costs for independent research and development (IR&D). We define IR&D funds as R&D performed by the company for which you anticipate reimbursement by the government through indirect charges for the purchase of products or services. Qualified projects usually have potential interest to the Department of Defense. These IR&D funds are excluded from federal funds received for federally-sponsored research and development contracts. 	R&D from nonfederal sources that is contracted to or otherwise performed by others <i>outside</i> of your company (Report such funds in Question 7.)

Question 6 If your company plans to perform R&D during 2008, what is the estimated projected cost?

Question 6 asks for an estimate or projection of the cost of R&D your company expects to perform in 2008 in the 50 United States and D.C.

Question 7 If others outside your company performed R&D funded by your company, what was the cost of the R&D performed in the 50 United States and D.C. during 2007?

Question 7 covers the R&D that was **both** performed for your company (1) by **others outside your company** such as contractors, and (2) **within** the 50 United States and D.C.

Include payments for R&D projects, contracts, or services performed for your company by contractors, suppliers, grantees, educational institutions, or other organizations.

Question 7 includes amounts for R&D performed by others for your company and does not include amounts for R&D performed by your company.

Question 8 What was the cost of the R&D reported in (7), column 2, performed by each of the following types of organizations?

Question 8 asks for the type of organizations that performed the portion of your answer to question 7 for company and other nonfederal sources of R&D funding.

Definitions for types of organizations	
For-profit companies	A company that is organized to pursue profit
Federal agencies or laboratories	Labs or other facilities owned by the United States government
State government agencies or laboratories	Labs or other facilities owned by any of the governments of the 50 United States or D.C.
Universities and colleges	A degree-granting institution of higher learning, having facilities for teaching and research
Other nonprofit organizations	An organization that is not organized to pursue profit. However, universities and colleges are reported in another category.

Question 9 What were your company's costs for R&D that your company performed within a joint venture, alliance, partnership, or other collaborative arrangement in the 50 United States and D.C. during 2007?

Question 9 covers your share of R&D expenditures funded by company and other nonfederal sources for R&D performed jointly by your company with organizations outside of your company. These joint activities may or may not have been organized as alliances, partnerships, or joint ventures. Only include amounts for R&D performed by your company in the 50 United States and D.C. Do not include amounts for R&D performed by the partner organization.

Do not include projects with other subsidiaries of your parent company. **Exception:** If you are a U.S. subsidiary of a foreign-owned company, you should include collaboration with foreign subsidiaries of your parent company if your company's portion of the R&D was performed in the 50 United States and D.C.

Include collaboration with entities such as Puerto Rico and governments in foreign jurisdictions if your company's portion of the R&D was performed in the 50 United States and D.C.

Question 10 If your company funded R&D performed outside the 50 United States and D.C. during 2007, what was the cost? (Please report costs of R&D performed by subsidiaries, affiliates, or others based on your company's percentage of ownership, if any, of the entity that conducted the R&D. Ownership can be based on voting stock or equivalent interest.)

Question 10 covers R&D performed **outside** the 50 United States and D.C. including R&D performed in Puerto Rico.

For Question 10, line D, report payments for R&D projects, contracts, or services performed for your company by contractors, suppliers, educational institutions, or other organizations.

Question 11 What was the cost of the R&D reported in (10), line A, in Puerto Rico and the following countries? (The total for this item should equal the amount reported in (10), line A.)

Question 11 provides more detail for your answer to Question 10, line A. If a country is not listed, please include the R&D in the "Other" category.

Question 12 If you reported Federally funded R&D in (5), line D, column 1, what was the cost funded by each of the following Federal agencies?

Question 12 covers federally funded R&D performed in the 50 United States and D.C. by agency.

Question 13 For the total R&D you reported in (5), line D, column 3, what was the cost for each of the following types of expenses?

Question 13 covers R&D by type of expense.

A. Wages and salaries of R&D personnel

INCLUDE:	EXCLUDE:
 Gross earnings paid in calendar year 2007 to employees engaged in R&D (follow the definition of salaries and wages that is used for calculating withholding tax) Salaries of officers in the research establishment(s) of a corporation 	 Payments to proprietor or partners if your company is an unincorporated concern Employee fringe benefits (Report under "B. Fringe benefits.")

B. Fringe benefits of R&D personnel

A **fringe benefit** is an employment benefit granted by an employer that has monetary value but does not affect basic wage rates. It includes any benefits given in addition to wages.

INCLUDE:

- Disability benefits
- · Life and medical insurance
- Paid holidays
- Retirement benefits, pension, and social security contributions
- Stock options
- Time-off benefits
- Vacation, annual, sick, and maternity leave

Question 13 (continued)

C. Materials and supplies consumed

Report the delivered cost for all purchased materials consumed.

INCLUDE:	EXCLUDE:
 Materials and supplies that were: Received from other companies Withdrawn from inventory Received from other establishments of this company 	 Purchases from other R&D organizations
All work done for your laboratories and other technical units by non-company organizations; for Example: Model construction by a non-company model shop	

D. Depreciation on R&D property and equipment

INCLUDE:

- Depreciation and amortization charged during the year against property and equipment related to your R&D activities
- Depreciation and amortization against property and equipment acquired since the beginning of the year that was **sold or retired** during the year and not in service at the end of the year
- Depreciated amounts no higher than the actual cost of property and equipment

E. All other R&D expenses

INCLUDE:

- Books and periodicals
- Company overhead
- Property and other taxes
- Utilities

Question 14 For the total R&D you reported in (5), line D, column 3, what was the cost for each of the following areas?

Question 14 covers R&D by selected technology area.

A. Biotechnology

Definition of biotechnology for this survey:

Biotechnology is the application of science and technology to living organisms, as well as parts, products, and models thereof, to alter living or nonliving materials for the production of knowledge, goods, and services.

INCLUDE:

- DNA technologies such as:
 - Genomics
 - Pharmacogenetics
 - Gene probes
 - DNA sequencing/synthesis/amplification
 - Genetic engineering
- Protein and molecular technologies such as
 - Protein/peptide sequencing/synthesis
 - Lipid/protein glycoengineering
 - Proteomics
 - Hormones
 - Growth factors
 - Cell receptors/signaling/pheromones
- Cell and tissue culture and engineering including:
 - Cell/tissue culture
 - Tissue engineering
 - Hybridization
 - Cellular fusion
 - Vaccine/immune stimulants
 - Embryo manipulation

- Process biotechnologies such as:
 - Bioreactors
 - Fermentation
 - Bioprocessing
 - Biobleaching`
 - Biodesulphurization
 - Bioremediation
 - Biofiltration
- Subcellular organism research including:
 - Gene therapy
 - Viral vectors
- Other biotechnology areas such as:
 - Bioinformatics
 - Nanobiotechnologies

B. Software development

INCLUDE:	EXCLUDE:
Application development tools and environments	Software programming or engineering used exclusively for internal company approximate and financial.
Applications software	operations such as financial management or human resources
Computer-aided design tools and methods	
Computer systems software	

Question 14 (continued)

C. Materials synthesis and processing

Covers formulation and manipulation of new or improved materials using the data and techniques of science and engineering.

INCLUDE:

- Advanced structural materials in the industrial machinery, medical, building, and construction industries
- Higher performance semiconductors and photonic devices in in the semiconductor industry
- Ceramics and alloys designed to withstand extreme temperatures and stresses for use in engine and structural parts in the aerospace and automotive industries
- Composite materials for use in sporting goods
- New and significantly improved synthesis and production techniques for existing materials

D. All other areas

Report the remainder of R&D costs so that the total for this question matches Question 5, line D, column 3.

Question 15 Did your company perform any R&D using nanotechnology during 2007?

Question 15 covers nanotechnology in R&D.

Nanotechnology is the creation and utilization of materials, devices, and systems sized at the level of atoms and molecules in the range of 1 to 100 nanometers.

If you answer "No" to Question 15, continue on to Question 17.

Question 16 For the R&D costs reported in 14, lines A through D, what percentage involved the use of nanotechnology for each of the following areas?

Question 16 asks for the nanotechnology proportion of the R&D expenditures provided in Question 14.

For example, if about a fourth of your biotechnology R&D expenditures was devoted to nanotechnology projects, report 25% in Question 16, line A.

INCLUDE:

 Materials and systems that exhibit novel and significantly improved physical, chemical, and biological properties; phenomena; and processed because of their size

Question 17 For the Federal and total R&D you reported in (5), line D, columns 1 and 3, what was the cost of the R&D performed in each of the 50 United States and D.C.? (The totals for this item should equal the totals reported in (5), line D, columns 1 and 3.)

Question 17 covers R&D for each state location where your company has research and development laboratories or facilities.

It is not necessary to calculate separately individual assignments made outside the home state of a particular research staff.

Question 18 If your company performed energy-related R&D during 2007, what was the cost of the R&D performed in the 50 United States and D.C. for each of the following sources of energy?

Question 18 covers R&D by type of energy source.

INCLUDE:

- R&D to increase energy resources or capabilities
- Development of energy equipment
- Products and processes for exploration, extraction, transportation, processing, storage, generation (including conversion), distribution, conservation
- Present, new, or improved forms of energy

How to estimate if the project is for joint or multiple purposes

Estimate the portion of the cost incurred for energy purposes.

Include the total cost of the R&D energy spending if the primary purpose of the project is energy R&D and costs cannot be apportioned.

Exclude costs if the project is not primarily for energy research and development and the costs cannot be apportioned.

Question 18 (continued)

What is included for each type of energy:

Type of energy	INCLUDE:
Fossil fuels	 Oil Gas Shale Coal Including synthetic fuels designed to convert coal to gaseous and liquid products Including equipment and techniques to improve the productivity and recovery rates of coal mining
Geothermal and solar	 Geothermal heat pumps Geothermal power plant generators Photovoltaic technology Solar water-heating systems
Nuclear	Fission and fusion
	 Conservation and utilization R&D to reduce consumption either at the point of energy use or in the transmission, transportation, storage, and conversion of energy including such activities as: Reduce fuel consumption in manufacturing Improve the efficiency of transportation of energy products Produce an end product that is more efficient in energy consumption Wind, waste, hydroelectric Other energy R&D that cannot be classified above

Question 19 Company organization and ownership

Question 19 asks for information on your company's ownership and your company's ownership of other entities.

Question 20 Reporting period, location of records, and contact information.

Question 20 covers the reporting period, some reporting characteristics, and provides space for your contact information. Please give the name and telephone number of the person in your company to contact regarding this report.

Question 21 Remarks

The Remarks section provides space for your comments and explanations.