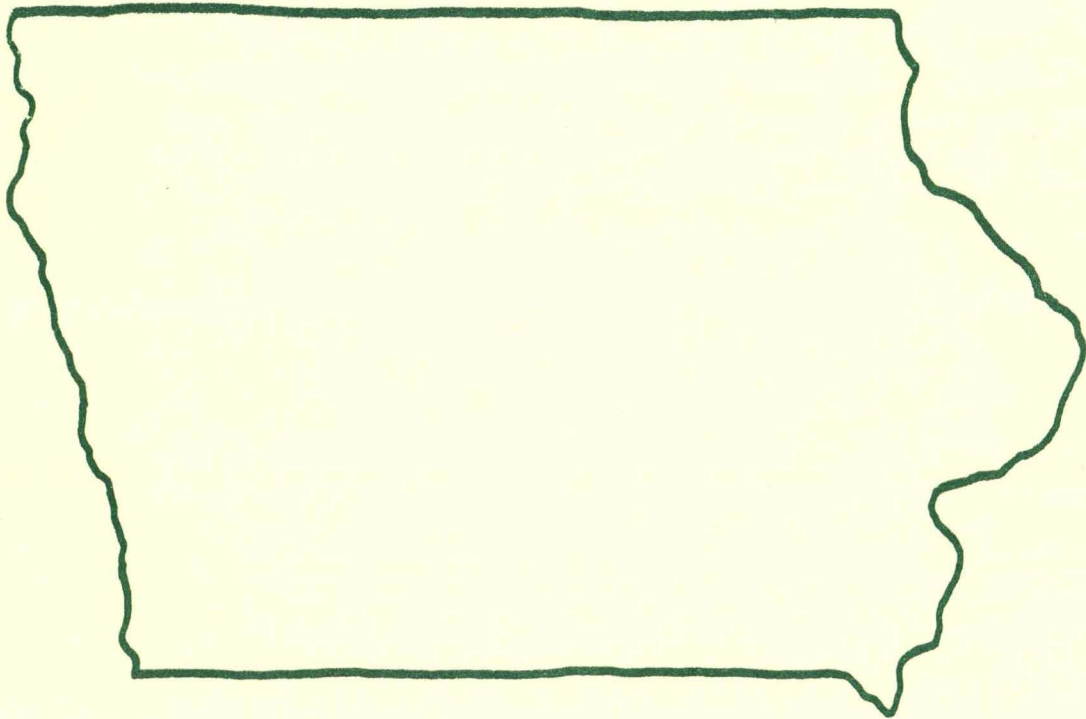


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**1985
STATE ENERGY
CONSERVATION PROGRAM
AND
ENERGY EXTENSION
SERVICE PROGRAM**



Making the Most of Iowa's Energy

Iowa Energy Policy Council

Lucas Building • Des Moines, Iowa 50319

PROPOSAL
SUBMITTED TO THE U.S. DEPARTMENT OF ENERGY
FOR PARTICIPATION IN:
THE NATIONAL ENERGY EXTENSION SERVICE
AND
THE STATE ENERGY CONSERVATION PROGRAM

FY-1985-86
APPLICATION

SUBMITTED BY
IOWA ENERGY POLICY COUNCIL
LUCAS STATE OFFICE BUILDING
DES MOINES, IOWA 50319

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IOWA ENERGY POLICY COUNCIL

CAPITOL COMPLEX — DES MOINES, IOWA 50319 — 515-281-4420

Robert F. Tyson
Director and Chairman

Terry E. Branstad
Governor

May 6, 1985

Mr. Ronald J. Brown, Director
U. S. Department of Energy
Kansas City Support Office
324 East 11th Street
Kansas City, MO 64106

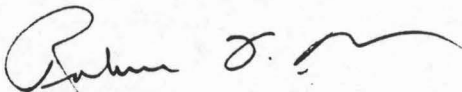
Dear Ron:

Please find enclosed Iowa's first consolidated State Energy Conservation Program (SECP) and Energy Extension Service (EES) plan and application. This 1985 SECP and EES application is another positive step toward sharing a brighter energy future for Iowa.

Conservation has helped reduce Iowa's energy balance of payments by nearly one third over pre-embargo trends. Thirteen percent of this reduction is attributed to the Iowa SECP, demonstrating that conservation is a sound investment for the state and nation.

I am pleased with the continuing success of SECP and EES and wish to express Iowa's gratitude to the United States Department of Energy for helping to make these successes possible. Together we can continue to make a difference.

Sincerely,



Robert F. Tyson
Director

RFT: jm

Enclosures: 3

INTRODUCTION

The Energy Policy and Conservation Act (EPCA) of 1975, as amended by the Energy Conservation and Production Act of 1976, and the National Energy Extension Service Act of 1977 provide Federal funding for the State Energy Conservation Plan (SECP) and the State Energy Extension Service (EES).

The intent of these acts is to promote energy conservation at the state level through general education programs, outreach efforts to inform consumers about the importance and benefits of energy conserving activities, and the demonstration of energy conserving techniques that can be adopted by consumers.

This plan represents the combination of activities to be carried out under the Iowa State Energy Conservation Plan (SECP) and the Energy Extension Service (EES). Current SECP and EES activities are closely coordinated with other programs administered by the Iowa Energy Policy Council. These other programs include the Institutional Conservation Program, the Low-Income Weatherization Program, the Energy Assistance Program, the Solar Energy and Energy Conservation Bank, and Governor Branstad's "Project H.E.L.P.E.R." (Helping Elderly and Low-income People with Energy Relief).

While current and future programs will continue to address the energy conservation needs of all economic sectors in Iowa, major efforts are being mounted to address those sectors that face a growing need for conservation. This past year, an emphasis has been placed upon establishing a community energy management demonstration program that addresses comprehensive conservation and alternative energy development.

Whenever possible, the Iowa Energy Policy Council works hand-in-hand with other agencies of government in the development and implementation of program activities. Over the past few years, programs have been coordinated with local governments, state agencies, and departments of the federal government.

Throughout the next fiscal year, the Iowa Energy Policy Council will continue to explore new means of promoting energy conservation through local demonstrations. New and expanded efforts are planned to increase monitoring, control, and evaluation of each program activity. Realistic objectives have been established and procedures for project management and review have been established.

Since 1983, the Energy Policy Council has been restructuring Iowa's approach to promoting energy conservation under the SECP and EES. This 1985 plan and grant application reflects a new approach, to be initiated under this and subsequent plans.

ENERGY POLICY COUNCIL MEMBERS

Chair and Director

Robert Tyson
Des Moines

Vice-Chair

Robert Hanson
Ames

Public Members

Jeanne Handy
Ottumwa

Julio Peguero
Clinton

Delmer Nelson
Spencer

David Nelson
Decorah

Suzan Stewart
Sioux City

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Democrat - Ames

Representative
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Republican - Fairfield

Representative
Donald J. Paulin
Republican - Le Mars

Ex Officio Members

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State Geologist

Warren Dunham
Director
Dept. of Transportation

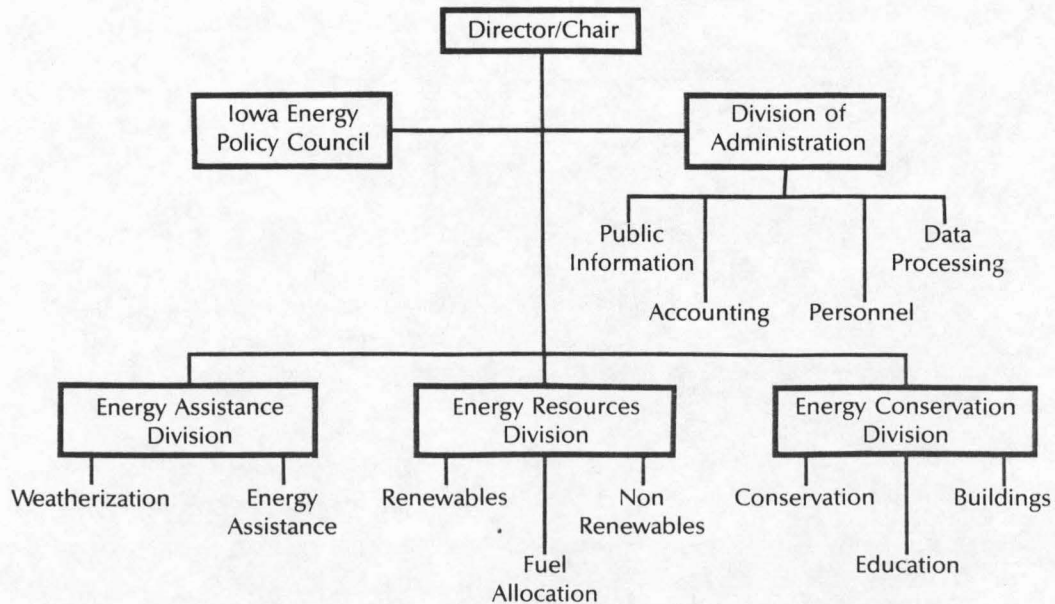
Andrew Varley
Chairman
Ia. St. Comm. Commission

James Gulliford
Director
Dept. of Soil Conservation

Stephen Ballou
Director
Dept. of Water, Air
and Waste Management

Robert Lounsberry
Sec. of Agriculture

Iowa Energy Policy Council .
Organizational Chart



FEDERAL ASSISTANCE

1. TYPE OF SUBMISSION (Mark appropriate box)

NOTICE OF INTENT (OPTIONAL)

PREAPPLICATION

APPLICATION

2. APPLICANT'S APPLICATION IDENTIFIER

a. NUMBER
10

b. DATE
Year month day
19 85 4 8

3. STATE APPLICATION IDENTIFIER

NOTE: TO BE ASSIGNED BY STATE

a. NUMBER
N.A.

b. DATE ASSIGNED
Year month day
N.A. 19

Leave Blank

4. LEGAL APPLICANT/RECIPIENT

a. Applicant Name State of Iowa

b. Organization Unit Energy Policy Council

c. Street/P.O. Box Lucas State Office Building

d. City Des Moines e. County Polk

f. State Iowa g. ZIP Code 50319

h. Contact Person (Name & Telephone No.) Larry L. Bean (319) 281-4420

5. EMPLOYER IDENTIFICATION NUMBER (EIN)
42-6004571

6. PROGRAM (From CFDA)

a. NUMBER 8 | 1 | 0 | 4 | 1

MULTIPLE

b. TITLE State Energy Conservation Program

7. TITLE OF APPLICANT'S PROJECT (Use section IV of this form to provide a summary description of the project)

1984 State Energy Conservation Program (SECP) Implementation

8. TYPE OF APPLICANT/RECIPIENT

A—State B—Institute C—Substate D—County E—City F—Special District G—Special Purpose District H—Community Action Agency I—Higher Educational Institution J—Indian Tribe K—Other (Specify):

Enter appropriate letter A

9. AREA OF PROJECT IMPACT (Names of cities, counties, states, etc.)
State of Iowa

10. ESTIMATED NUMBER OF PERSONS BENEFITING
3,000,000

11. TYPE OF ASSISTANCE

A—Basic Grant B—Supplemental Grant C—Loan D—Insurance E—Other

Enter appropriate letter(s) A

12. PROPOSED FUNDING

a. FEDERAL	\$ 336,000.00
b. APPLICANT	.00
c. STATE	924,730.00
d. LOCAL	.00
e. OTHER*	981,475.00
f. Total	\$ 2,242,205.00

13. CONGRESSIONAL DISTRICTS OF:

a. APPLICANT
b. PROJECT
Statewide

15. PROJECT START DATE Year month day
19 85 7 1

16. PROJECT DURATION
12 Months

18. DATE DUE TO FEDERAL AGENCY Year month day
19 85 4 30

14. TYPE OF APPLICATION

A—New B—Renewal C—Revision D—Continuation E—Augmentation

Enter appropriate letter D

17. TYPE OF CHANGE (For 14c or 14d)

A—Increase Dollars B—Decrease Dollars C—Increase Duration D—Decrease Duration E—Continuation F—Other (Specify):

Enter appropriate letter(s) A C

19. FEDERAL AGENCY TO RECEIVE REQUEST
Department of Energy, Kansas City, Missouri, 64106

a. ORGANIZATIONAL UNIT (IF APPROPRIATE)
Kansas City Support Office

b. ADMINISTRATIVE CONTACT (IF KNOWN)
Ronald J. Brown, Director

20. EXISTING FEDERAL GRANT IDENTIFICATION NUMBER
DE-FG47-80CS62017

c. ADDRESS

21. REMARKS ADDED

Yes No

22. THE APPLICANT CERTIFIES THAT

To the best of my knowledge and belief, data in this preapplication/application are true and correct, the document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached assurances if the assistance is approved.

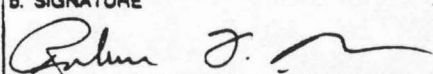
a. YES, THIS NOTICE OF INTENT/PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE April 30, 1985

Office for Planning and Programming
523 E. 12th Street
Des Moines, IA 50319

b. NO, PROGRAM IS NOT COVERED BY E.O. 12372 OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW

23. CERTIFYING REPRESENTATIVE

a. TYPED NAME AND TITLE
Iowa Energy Policy Council
Robert F. Tyson, Director

b. SIGNATURE


24. APPLICATION RECEIVED 19

25. FEDERAL APPLICATION IDENTIFICATION NUMBER

26. FEDERAL GRANT IDENTIFICATION

27. ACTION TAKEN

a. AWARDED

b. REJECTED

c. RETURNED FOR AMENDMENT

d. RETURNED FOR E.O. 12372 SUBMISSION BY APPLICANT TO STATE

e. DEFERRED

f. WITHDRAWN

28. FUNDING

a. FEDERAL	\$.00
b. APPLICANT	.00
c. STATE	.00
d. LOCAL	.00
e. OTHER	.00
f. TOTAL	\$.00

29. ACTION DATE 19

31. CONTACT FOR ADDITIONAL INFORMATION (Name and telephone number)

30. STARTING DATE 19

32. ENDING DATE 19

33. REMARKS ADDED

Yes No

SECTION I—APPLICANT/RECIPIENT DATA

SECTION II—CERTIFICATION

SECTION III—FEDERAL AGENCY ACTION

The 1985 Iowa State Energy Conservation Program (SECP) has been prepared for implementation during the period July 1, 1985 through June 30, 1986. This period coincides with the state fiscal period. Its overall objective is to reduce energy consumption within the state.

The 1985 SECP is comprised of five program measures. The Conservation Division of the Iowa Energy Policy Council is the organization responsible for development and implementation of the five SECP measures: I. Required Programs, II. Community Energy Management Demonstrations, II-A. Community Energy Management, III. Energy Management for the Farm, IV. Resource Development, and V. Planning and Marketing. It is estimated that the energy avoidance (savings) from these programs will total 62.3 trillion (10^{12}) BTU's by June 30, 1986.

Detailed information is provided within the text of this plan. It is in compliance with the Energy Policy and Conservation Act (EPCA) of 1975 and the Energy Conservation and Production Act of 1976. With the submission of this plan, we rededicate Iowa to the energy conservation ethic. Further, we recognize the potential social and economic benefits to Iowa from energy conservation and the use of indigenous resources.

The plan is designed to take advantage of Iowa's energy conservation and renewable opportunities. Emphasis is placed upon the development and marketing of model demonstrations with the intention of utilizing existing infrastructures for implementation.

22(b) Clearinghouse response forthcoming

ANNUAL STATE ENERGY CONSERVATION PROGRAM APPLICATION

PART II

Form NO. 88-RC 198

PROJECT APPROVAL INFORMATION

Item 1.
 Does this assistance request require State, local, regional, or other priority rating? X Yes No
 Name of Governing Body Iowa Energy Policy Council
 Priority Rating 1

Item 2.
 Does this assistance request require State, or local advisory, educational or health clearances? Yes X No (Attach Documentation)
 Name of Agency or Board

Item 3. (NO LONGER APPLIES)
 Does this assistance request require clearinghouse review in accordance with ~~OMB Circular A-130~~ Executive Order 12372 X Yes No
 (Attach Comments) Office of Planning and Programming will forward comments.

Item 4.
 Does this assistance request require State, local, regional or other planning approval? Yes X No
 Name of Approving Agency
 Date

Item 5.
 Is the proposed project covered by an approved comprehensive plan? Yes X No
 Check one: State
 Local
 Regional
 Location of Plan

Item 6.
 Will the assistance requested serve a Federal installation? Yes X No
 Name of Federal Installation
 Federal Population benefiting from Project

Item 7.
 Will the assistance requested be on Federal land or installation? X Yes No
 Name of Federal Installation
 Location of Federal Land
 Percent of Project

Item 8.
 Will the assistance requested have an impact or effect on the environment? X Yes No
 See instructions for additional information to be provided. Beneficial

Item 9.
 Will the assistance requested cause the displacement of individuals, families, businesses, or farms? Yes X No
 Number of:
 Individuals
 Families
 Businesses
 Farms

Item 10.
 Is there other related assistance on this project previous, pending, or anticipated? X Yes No
 See instructions for additional information to be provided. Carry forward and state funds

Item 11.
 Is the project in a designated flood hazard area? Yes X No
 See instructions for additional information to be provided.

FEDERAL ASSISTANCE BUDGET INFORMATION FORM

FORM EIA-459C
(10/80)

FORM APPROVED
OMB No. 1900-0127

1. Program/Project Identification No. DE-FG47-80CS62017	2. Program/Project Title STATE ENERGY CONSERVATION PROGRAM
3. Name and Address IOWA ENERGY POLICY COUNCIL CAPITOL COMPLEX LUCAS STATE OFFICE BUILDING DES MOINES, IA 50319	4. Program/Project Start Date 7/1/85
5. Completion Date 6/30/86	

SECTION A - BUDGET SUMMARY						
Grant Program, Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. SECP GRANT		\$ 100,345	\$ -0-	\$ 336,000	\$ -0-	\$ 436,345
2. NON FED MATCH		-0-	924,730	-0-	-0-	924,730
3. PVE ¹		-0-	879,930	-0-	-0-	879,930
4. PVE ²		-0-	1,200	-0-	-0-	1,200
5. TOTALS		\$ 100,345	\$ 1,805,860	\$ 336,000	\$ -0-	\$ 2,242,205

SECTION B - BUDGET CATEGORIES					
6. Object Class Categories	- Grant Program, Function or Activity				PGM 4
	(m) PGM 1	(n) PGM 2	(o) PGM 2A	(p) PGM 3	
a. Personnel	\$ 17,466	\$ 51,734	\$ -0-	\$ 11,594	\$ 38,141
b. Fringe Benefits	3,143	9,313	-0-	2,087	6,865
c. Travel	1,016	2,464	440	688	2,168
d. Equipment	254	616	-0-	172	542
e. Supplies	356	862	270	241	759
f. Contractual	2,000	48,493	879,930	15,000	20,000
State Matching Contractual Funds	-0-	44,800	879,930	-0-	-0-
h. Other	2,784	5,386	490	2,240	4,694
i. Total Direct Charges	27,019	163,673	1,761,060	32,022	73,169
j. Indirect Charges	8,510	24,362	-0-	5,794	18,074
k. TOTALS	\$ 35,529	\$ 188,035	\$ 1,761,060	\$ 37,816	\$ 91,243
7. Program Income	\$	\$	\$	\$	\$

¹Petroleum Violation Escrow - Warner Amendment

²Petroleum Violation Escrow - Non-Warner Amendment

FEDERAL ASSISTANCE BUDGET INFORMATION FORM

FORM EIA-459C
(10/80)

FORM APPROVED
OMB No. 1900-0127

1. Program/Project Identification No. DE-FG47-80CS62017	2. Program/Project Title STATE ENERGY CONSERVATION PROGRAM
3. Name and Address IOWA ENERGY POLICY COUNCIL CAPITOL COMPLEX LUCAS STATE OFFICE BUILDING DES MOINES, IA 50319	4. Program/Project Start Date 7/1/85
5. Completion Date 6/30/86	

SECTION A - BUDGET SUMMARY						
Grant Program, Function or Activity (a)	Federal Catalog No (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1.		\$	\$	\$	\$	\$
2.						
3.						
4.						
5. TOTALS		\$	\$	\$	\$	\$

SECTION B - BUDGET CATEGORIES					
6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) PGM 5	(2) NON. FED.	(3) PVE	(4) SECP	
a. Personnel	\$ 23,691	\$ -0-	\$ -0-	\$ 142,626	\$ 142,626
b. Fringe Benefits	4,265	-0-	-0-	25,673	25,673
c. Travel	1,664	-0-	440	8,000	8,440
d. Equipment	416	-0-	-0-	2,000	2,000
e. Supplies	582	-0-	270	2,800	3,070
f. Contractual	75,000	-0-	879,930	160,498	1,040,428
g. State Match	---	924,730	-0-	-0-	924,730
h. Other	9,358	-0-	490	24,462	24,952
i. Total Direct Charges	114,976	924,730	881,130	366,059	2,171,919
j. Indirect Charges	13,546	-0-	-0-	70,286	70,286
k. TOTALS	\$ 128,522	\$ 924,730	881,130	\$ 436,345	\$ 2,242,205
7. Program Income	\$	\$	\$	\$	\$

Revised 5/31/85

PART IV NARRATIVE

1. Required Programs

TITLE: Lighting Efficiency Standards (85-I-A)

DESCRIPTION:

The State Energy Conservation Program (SECP) regulations, Section 420.6(a), specify that:

Mandatory lighting efficiency standards for public buildings shall be implemented throughout the state as a model code.

OBJECTIVES:

The Energy Policy Council will support legislation to require lighting efficiency standards for public buildings to: (1) be implemented throughout the state in 1985 as a model code for local communities of 50,000 or more inhabitants; (2) apply to all public buildings of 100,000 ft² or more in size; (3) for new public buildings be no less stringent than the provisions of section 9 of ASHRAE 90-75; and (4) contain the elements deemed appropriate by the Iowa legislature and Iowa Building Code Commission for existing public buildings.

STRATEGIES:

The Energy Conservation Division will introduce legislation described above for consideration of, support by Council, and the Iowa Building Code Commission.

EVALUATION:

The Energy Savings methodology is described on pages 49-56 in Volume 2 of the source book, State Energy Conservation Plan Handbook, Federal Energy Administration, Office of State Energy Conservation Programs FEA/D-76/471.

ENVIRONMENTAL ANALYSIS:

Environmental impacts from all required programs will be favorable. Air emissions will be reduced as a result of less base load electrical generation.

PART IV NARRATIVE

1. Required Programs

TITLE: Transportation Measures (85-I-B)

DESCRIPTION:

Section 420.6(b) of the SECP regulations provide stipulations for:
Program measures to promote the availability and use of car-pools, vanpools, and public transportation.

OBJECTIVES:

The Iowa Energy Policy Council (EPC) in cooperation with the Iowa Department of Transportation will work to support local match bank for transit capital purchases and assist with the coordination or regional transit system services with inner-city bus services as funded with funds from oil overcharge consent orders. Additional programs that will be implemented in FY 86 are:
a) a car pool/van pool matching and promotion campaign in the Des Moines metro area that will form 25 or more car pools and maintain a list to 600 viable names on the computer matching service, b) support and promote the development of park-and-ride lots by establishing 1 lot in Sioux Center, c) support and promote preferential parking for car pools and van pools at the Capital Complex by increasing Complex participation by 5 car pools.

STRATEGIES:

Assist the Iowa Department of Transportation (DOT) to establish a cost sharing bank where local transit can obtain financial assistance for capital investments. Assist the DOT to coordinate regional transit and inner-city bus service to maximize customer benefits. Design and implement a computerized rideshare promotion that targets large employers in the 17 county service area. Work with DOT to develop a park and ride lot in Sioux County. Work with the Iowa Department of General Services to promote preferred parking at the Complex of state office buildings by drafting and submitting marketing strategies and funding production costs.

EVALUATION:

The energy savings methodology is described on pages 103-112, in volume 2 of the source book, State Energy Conservation Plan Handbook, Federal Energy Administration, Office of State Energy Conservation Programs, FEA/D-76/471.

ENVIRONMENTAL ANALYSIS:

Environmental impacts from all required programs will be favorable. Air pollution emissions will be reduced as a result of fewer vehicles traveling Iowa.

PART IV NARRATIVE

1. Required Programs

TITLE: Procurement Practices (85-I-C)

DESCRIPTION:

Section 420.6(c) of the SECP regulations provide stipulations for implementing:

Mandatory standards and policies affecting the procurement practices of the State and its political subdivisions to improve energy efficiency.

OBJECTIVES:

The Iowa Energy Policy Council will improve energy efficiency by assisting state agencies and local governments to implement life-cycle cost (LCC) analysis in 1985. The LCC analysis will include the elements: 1) acquisition costs, 2) operating expenses (including fuel, maintenance, insurance, taxes, depreciation, tax deductions, warranties), 3) performance, and 4) resale value, and the methodologies provided in the Council's LCC purchasing manual.

The Iowa Energy Policy Council will support legislation to require local governments to follow the same energy efficiency procurement policies adopted by the state and identify local governments that are implementing life-cycle cost procurement practices.

STRATEGIES:

The Iowa Energy Policy Council has arranged for local governments to purchase under state contracts and to receive assistance in developing life-cycle cost bidding procedures from the Iowa Department of General Services. The Energy Policy Council will identify some case history success models and promote this service with one or more articles in the state municipal association newsletter.

Legislation will be recommended, as described under Lighting Efficiency Standards.

EVALUATION:

The energy savings methodology is described in 61-79 in volume 2 of the sourcebook, State Energy Conservation Plan Handbook, Federal Energy Administration, Office of State Energy Conservation Programs, FEA/D-76/471.

ENVIRONMENTAL ANALYSIS:

Environmental impacts from all required programs will be favorable. Air emissions will be reduced as a result of more energy efficient equipment being purchased and operated.

PART IV NARRATIVE

1. Required Programs

TITLE: Thermal Standards (85-I-D)

DESCRIPTION:

Section 420.6(d) of the SECP regulations provide stipulations for:

Mandatory thermal efficiency standards for new and renovated buildings.

Note: The thermal standards program element is closely connected with the lighting efficiency standards and is developed in connection with that measure, under Iowa's Building Code.

OBJECTIVES:

The Iowa Energy Policy Council will support legislation to require thermal efficiency standards for new and renovated buildings other than buildings exempted by the Iowa legislature or Building Code Commission. The standards will be adopted as a model code for local communities of 50,000 or more inhabitants, will include: A) the exterior envelope physical characteristics, HVAC system selection and configuration, HVAC equipment performance and service water heating design and equipment selection; B) for all new commercial buildings be no less stringent than a standard consistent with provisions of Sections 4-9 of ASHRAE Conservation Act, as amended 42 U.S.C. 6297, renders reliance on such standard to be impracticable; C) for all new residential buildings be no less stringent than either the HUD minimum property standards or a standard consistent with the provisions of Sections 4-9 of ASHRAE 90-75, unless the operation of Section 327 of the Energy Policy and Conservation Act, as amended, 42 U.S.C. 6297, renders reliance on such standards to be impracticable; and D) for renovated buildings: (i) apply only to those buildings specified and (ii) contain only the elements deemed appropriate by the Iowa legislature and/or the Iowa Building Code Commission.

STRATEGIES:

The Energy Conservation Division will introduce legislation described above for consideration of support by Council, and solicit support from the Iowa Building Code Commission.

EVALUATION:

The energy savings methodology is described on pages 19-44, in volume 2 of the source book, State Energy Conservation Plan Handbook, Federal Energy Administration, Office of State Energy Conservation Programs, FEA/D-76/471.

ENVIRONMENTAL ANALYSIS:

Environmental impacts from all required programs will be favorable. Air pollution emissions from heating systems will be reduced, due to less time in operation.

PART IV NARRATIVE

1. Required Programs

TITLE: Right-Turn-On-Red (85-I-E)

DESCRIPTION:

4.2.5 Right-Turn-on-Red

Section 420.6(e) of the SECP regulations provide stipulations for implementing:

A traffic law or regulation that permits the operator of a motor vehicle to make a right turn at a red light after stopping.

Iowa has established a law that is (1) in Iowa's motor vehicle code and under implementation throughout all political subdivisions of the State, except (2) permits the operator of a motor vehicle to make a right turn at a red traffic light after stopping except where specifically prohibited by a traffic sign for reasons of safety or except where generally prohibited in an urban enclave for reasons of safety.

OBJECTIVES: None

STRATEGIES:

None. Program was implemented prior to SECP.

EVALUATION:

No savings claimed.

ENVIRONMENTAL ANALYSIS:

Less emissions due to fewer idling vehicle engines.

PART IV NARRATIVE

2. Community Energy Management Demonstration

TITLE: Local Government Data Base (85-II-A)

DESCRIPTION:

Maintain and refine a data base for local government facilities and operations.

OBJECTIVES:

To assess the efficiency of local government buildings by type/age/size and to inventory the maximum number of local government heated and/or cooled buildings for use in marketing energy management programs by December 31, 1985. This will be accomplished by collecting and coding data on buildings from 100 local governments additional to the local governments already inventoried.

STRATEGIES:

Research will be carried out on buildings owned/operated by 100 local Iowa governments. The data will be coded, entered on computer, and analyzed for energy efficiency. A state profile of local government buildings will be developed and presented at local government meetings to market energy conservation.

EVALUATION:

Client impact of the report will be evaluated by the annual local government energy management survey question to determine actions taken. Total energy savings will be estimated by expanding the survey (sample) results to reflect total distribution of the report.

ENVIRONMENTAL ANALYSIS:

The environmental impact is favorable, due to a reduction in air emissions.

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: ENERGY FINANCING FOR LOCAL GOVERNMENTS (85-II-B)

DESCRIPTION:

Market financing options for local government energy efficiency improvements.

OBJECTIVES:

Identify 10 or more sources of financing energy conservation improvements for local government facilities and publish results by September 30, 1985 in a handbook. Inform all local governments of the availability of the handbook.

STRATEGIES:

Execute a contract to research and develop a handbook for local governments, that describes potential sources of funding for conservation and how to apply for funds. Promote the availability of the handbook at appropriate speaking engagements, and a statewide notification (either a mailing and/or articles in a newsletter). Two Iowa communities will be selected to receive EPC staff help in making applications for conservation funds, using the handbook.

EVALUATION:

An annual local government energy management survey will be conducted to determine user satisfaction and success in obtaining conservation funds. Energy savings will be estimated from a sample of community conservation, carried out as a result of using the handbook to obtain funds.

ENVIRONMENTAL ANALYSIS:

The environmental impact is expected to be favorable due to conservation improvements in community energy efficiency.

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: LIFE CYCLE COST FOR NEW AND RENOVATED BUILDINGS (85-II-C)

DESCRIPTION:

Prepare and disseminate definitive inquiry and referral information on life-cycle cost analysis requirements for new public buildings and renovations that includes a staff prepared research report on life-cycle cost analysis compliance in public building construction and renovation.

OBJECTIVES:

To document compliance with Chapter 470* of the Iowa Code by October 30, 1985, by identifying the energy savings achieved by implementing life-cycle costing analysis for new and renovated local government buildings constructed after 1980. The dollar value of energy avoidance by compliance or value of energy costs incurred by non-compliance will be calculated and reported.

STRATEGIES:

Implement an annual local government energy management survey questionnaire to determine 1) awareness, 2) compliance, 3) buildings affected, 4) energy saved. Write a report summarizing the results of the study and publish the results in the municipal and county newsletter.

EVALUATION:

This is an evaluation program and results will be used to estimate savings.

ENVIRONMENTAL ANALYSIS:

No environmental impact is anticipated.

*Life-cycle Cost Analysis of Public Buildings

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: COMMUNITY ENERGY CONFERENCE (85-II-D)

DESCRIPTION:

Conduct an energy conference for community leaders.

Energy experts from across the nation will be on hand to discuss financing, planning, energy conservation technologies, solid waste-to-energy projects, cogeneration and other important energy issues and technologies.

Conference attendees will receive information about how other communities have implemented successful programs beginning with planning through actual implementation. If a community or institution has adopted its own management program, they are encouraged to come and share their experience.

PARTICIPANTS AT THE CONFERENCE WILL LEARN HOW TO:

- Reduce energy consumption and save local tax dollars
- Finance energy projects
- Utilize existing alternative resources to create a more secure future
- Bring together all aspects of the community to create a stronger local economy

OBJECTIVES:

To conduct in April 1986 an Iowa Community Energy Conference that covers 20 or more energy production and energy conservation topics to a targeted attendance of at least 200 people.

STRATEGIES:

Plan and implement an energy conference for community leaders.

EVALUATION:

A questionnaire will be distributed to those attending the 1985 conference to determine client satisfaction. A follow up will be conducted after the conference to determine actions taken as a result of the conference. Similar evaluation activities will be done for the 1986 conference.

ENVIRONMENTAL ANALYSIS:

The environmental impact from implementing conservation is favorable due to a reduction in combustion emissions.

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: VEHICLE FLEET MAINTENANCE (85-II-E)

DESCRIPTION:

Demonstrate a vehicle fleet maintenance program.

OBJECTIVES:

To assist two communities to implement a vehicle fleet maintenance program that systematically records and carries out maintenance and repair work on their fleet of vehicles and equipment; to inform Iowa communities by publishing two articles that describe the benefits of implementing a vehicle fleet maintenance program.

STRATEGIES:

Identify the specific needs in two demonstration communities, plan a mutually acceptable program, install and implement the program, document program performance and results, prepare a report of each community's results, market the results to other communities in Iowa.

EVALUATION:

A comparison of energy efficiency before and after a vehicle fleet maintenance program was implemented will yield an estimate of energy savings.

ENVIRONMENTAL ANALYSIS:

Environmental impact will be favorable from a reduction in vehicle emission pollutants, due to improvements in engine efficiency.

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: HOME HEATING INDEX (HHI) (85-II-F)

DESCRIPTION:

The home heating index was developed by extension specialists at Iowa State University. It is a number, usually less than 20, which describes the energy efficiency of a home. The lower the number, the more efficient the home. The values of 15, 10, and 5 have been recognized as corresponding to very inefficient, typical, and very efficient homes respectively.

OBJECTIVES:

To deliver a home heating index to 20% of the single-family homes in Sioux Center, Iowa and 5% of the single-family homes in Evansdale, Iowa by June 30, 1986. When the home heating index is greater than 5, recommend an energy audit and no-cost and low-cost energy conservation measures at the same time the home heating index is delivered to the client.

STRATEGIES:

Market and promote the Home Heating Index and calculate HHI's for applicant households in the demonstration communities in Iowa.

Promote the results of this demonstration to all Iowa communities through the Iowa Association of Municipalities and Association of County Governments.

EVALUATION:

Conduct a follow-up survey of families receiving an HHI to determine 1) if they purchased an energy audit, 2) if they implemented any conservation measures, 3) how much energy they saved. Savings will be verified by staff engineering.

ENVIRONMENTAL ANALYSIS:

Most residential conservation reduces the direct combustion of fossil fuel for heating or for generating electricity. A favorable impact upon air quality due to less emission of the pollutant from combustion, is expected.

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: THERMOGRAPHY (85-II-G)

DESCRIPTION:

Take and distribute thermogram (infra-red) photographs of all buildings in one or two demonstration communities in Iowa.

OBJECTIVES:

By April 15, 1985, promote energy audits by photographing every building from the street within the city limits in one or two Iowa communities using infra-red equipment, distributing the resulting thermograms to the occupants of each building.

STRATEGIES:

Execute a contract to take thermogram photographs of all buildings in one or two demonstration communities, to be selected. Contractor will deliver photographs to community energy coordinator(s) for delivery to building occupants, train local people to interpret the thermograms and advise building occupants about energy conservation opportunities.

This is the first step of a three part activity: 1) Thermography 2) Home Heating Index, 3) Energy Audits. The first two are largely promotional, and intended to market energy audits and energy conservation.

EVALUATION:

A survey of all building occupants to document 1) awareness, 2) number of audits, 3) conservation measures, 4) energy savings.

ENVIRONMENTAL ANALYSIS:

No direct impact. A positive indirect impact from energy conservation due to a reduction in air pollution emissions.

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: UTILITY ENERGY MANAGEMENT (85-II-H)

DESCRIPTION:

Demonstrate efficient production and consumption of energy.

OBJECTIVES:

To inform a minimum of 5 municipally-owned utilities about load management based upon Sioux Center, Osage, and other Iowa utility experiences and other relevant national experiences by June 30, 1986.

STRATEGIES:

To document load management success stories in Iowa, prepare written case histories, and publish these stories as a means of promoting and informing others about this conservation opportunity.

EVALUATION:

Conduct an annual local government energy management survey to determine awareness and impact on Iowa's municipal utilities. (impact will probably occur after one year)

ENVIRONMENTAL ANALYSIS:

Load management reduces the need to operate peak shaving plants, which are the most energy inefficient units among electric generation facilities. Less need to operate small petroleum fired generation plants will result in less combustion emissions released to the air.

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: TECHNICAL ASSISTANCE (85-11-1)

DESCRIPTION:

Provide engineering assistance, needed by the demonstration communities to identify energy opportunities.

OBJECTIVES:

To identify ethanol hydroelectric and biomass production opportunities in four demonstration communities by June 30, 1986.

STRATEGIES:

Staff engineering will conduct evaluations and report on the feasibility of conducting ethanol production, hydroelectric development, or biomass energy production projects in each demonstration community.

EVALUATION:

Comments by local community leaders and the EPC management and Council will determine acceptability. No direct energy savings is expected; however, further study and implementation of the above technologies could result in a substantial savings of fossil fuel.

ENVIRONMENTAL ANALYSIS:

Use of ethanol and hydroelectric generation produces less air pollution emissions than alternatives commonly is use. Direct burning of biomass yields more particulates but less chemical pollution* of the air.

* Sulfur dioxide, nitrogen oxide

PART IV NARRATIVE

2. COMMUNITY ENERGY MANAGEMENT DEMONSTRATION

TITLE: MOBILE HOME RETROFIT (85-II-J)

DESCRIPTION:

Demonstrate low-income weatherization improvements to 3 mobile homes.

OBJECTIVES:

To complete an Energy Policy Council low-income weatherization retrofit on 3 Iowa mobile homes by December 31, 1985, targeting a 10% or more reduction in annual HVAC costs by adding insulation, storm doors and windows, caulking, weatherstripping, insulating the water heater/furnace closets, skirting, and other treatments deemed cost effective. Vent dampers, pipe insulation, set-back thermostats, heat exchangers, floor insulation, time clock for engine block heaters, and other measures will be considered.

STRATEGIES:

Identify 3 mobile home owners that are interested in demonstrating weatherization and arrange with the Community Action Agency to provide a low-income weatherization to each home, conduct a field day demonstration when the weatherization is being done, document energy and cost savings, and publish articles describing each demonstration.

EVALUATION:

Comparison of fuel bills before and after weatherization will provide rate of return and energy savings. A survey of mobile homeowners in one community will determine awareness and impact.

ENVIRONMENTAL ANALYSIS:

Energy efficiency improvements will benefit the environment due to decreased emissions from combustion of fossil fuels.

PART IV NARRATIVE

2A. COMMUNITY ENERGY MANAGEMENT

TITLE: LOCAL GOVERNMENT BUILDINGS (85-II-A1)
ENERGY AUDITS AND ENGINEERING ANALYSES

DESCRIPTION:

Provide energy audits and engineering analyses in local government facilities.

OBJECTIVES:

Complete energy audits/engineering analyses with 20 local governments for 40 buildings and/or water and wastewater treatment facilities by June 30, 1986.

STRATEGIES:

Execute contracts that cost share at 50% audits and analyses.

EVALUATION:

Conservation will be evaluated by analyzing utility costs before and after treatment.

ENVIRONMENTAL ANALYSIS:

The environmental impact is a favorable reduction of air pollution associated with less combustion of fossil fuels.

PART IV NARRATIVE

2A. COMMUNITY ENERGY MANAGEMENT

TITLE: LOCAL GOVERNMENT TRAINING (85-II-A2)

DESCRIPTION:

Train existing local government personnel in energy management specific to their furnaces (i.e., boiler operator, water and wastewater treatment operator, city clerks, etc.).

OBJECTIVES:

Train 200 local government personnel in one of the following by June 30, 1986: boiler/furnace operation, water and wastewater operation, preventive maintenance, vehicle fleet maintenance, methane recapture, or other programs. Reduce energy costs in building/system operation by 10% through unit reduction for each local government represented in training.

STRATEGIES:

Identify or develop training for local government personnel on energy management in their specific job areas. Promote availability of training and cost share attendance.

EVALUATION:

A questionnaire will be distributed at each training seminar to determine client satisfaction. Conservation will be evaluated by analyzing utility costs before and after treatment.

ENVIRONMENTAL ANALYSIS:

No impact is expected from the training. More efficient operation of equipment will result in a favorable reduction in air pollution emissions.

PART IV NARRATIVE

2A. COMMUNITY ENERGY MANAGEMENT

TITLE: COMPREHENSIVE COMMUNITY ENERGY MANAGEMENT DEMONSTRATIONS
(85-II-A3)

DESCRIPTION:

Conduct community energy management demonstration projects in four Iowa communities.

OBJECTIVES:

Complete community energy management demonstration projects in Sioux Center and Evansdale by June 30, 1986 and in two additional local governments by June 30, 1987. Each demonstration project will include one or more energy activities in the government sector and in at least two other economic sectors. Each demonstration project shall also include conducting energy audits and engineering analyses on local government buildings and installing all energy conservation measures with a seven-year or less payback up to the amount of matching funds available to the community from the State Energy Conservation Program.

STRATEGIES:

Cost share and provide technical assistance to selected communities.

EVALUATION:

Track energy consumption in public buildings in each of the demonstration communities. Track energy consumption affected by the community-wide activities. Determine financial impact due to community energy management project.

ENVIRONMENTAL IMPACT:

The environmental impact is a favorable reduction of air pollution associated with less combustion of fossil fuels.

PART IV NARRATIVE

3. ENERGY MANAGEMENT FOR THE FARM

TITLE: FARM FUEL USE REPORT (85-III-A)

DESCRIPTION:

Conduct a farm fuel use survey of Iowa farmers and publish a report.

OBJECTIVES:

By May 1986, develop and distribute 1000 copies of the Iowa "1985 Farm Fuel Use" report to a mailing list provided by the Iowa Department of Agriculture. Prepare a presentation for the Council and others that includes reporting, analysis and interpretation of the survey results.

STRATEGIES:

Execute a contract with the Iowa Department of Agriculture Crop and Livestock Reporting Service to: 1) develop and implement a statistically reliable sampling procedure that will represent all Iowa farmers when expanded proportionally, and will insure data quality that is comparable with previous Iowa Farm Fuel Use reports. The sample size will total at least 600. 2) design a questionnaire to secure a reliable primary source of data for collecting, tabulating, and publishing 1,000 copies of an Iowa "1985 Farm Fuel Use" report containing the same statistical and narrative information, as the 1983 Farm Fuel Use report. 3) issue a press release announcing the availability of this report and highlighting some of its information.

EVALUATION:

A postcard insert will be distributed with each report, asking recipients to evaluate this report.

ENVIRONMENTAL ANALYSIS:

No impact.

PART IV NARRATIVE

4. RESOURCE DEVELOPMENT

TITLE: FLUIDIZED BED COMBUSTION (85-IV-A)

DESCRIPTION:

Distribute fluidized bed combustion study reports.

OBJECTIVES:

Print and distribute 100 copies of the fluidized bed combustion study to Iowa industries and utilities that presently burn coal, by October 1986.

STRATEGIES:

Print the study, identify potential users, mail the study to potential users.

EVALUATION:

Contact recipients to determine satisfaction and actions intended or taken.

ENVIRONMENTAL ANALYSIS:

No direct impact. Indirectly, the use of fluidized bed technology could result in less air pollution emissions and less need for landfilling solid wastes.

PART IV NARRATIVE

4. RESOURCE DEVELOPMENT

TITLE: COGENERATION INVENTORY (85-IV-B)

DESCRIPTION:

Inventory cogeneration sites in Iowa.

OBJECTIVES:

Complete a research report in cooperation with the Iowa State Commerce Commission by June 30, 1986 that assesses the potential for cogeneration in Iowa. This inventory will be followed with a development plan recommendation.

STRATEGIES:

Execute a request for proposals, evaluation, and a contract to develop the criteria. Research and prepare an inventory of potential cogeneration sites in Iowa.

EVALUATION:

Ask users to evaluate the inventory report.

ENVIRONMENTAL ANALYSIS:

No direct impact. Indirectly, the use of cogeneration will reduce the pollutants caused by combustion.

PART IV NARRATIVE

5. PLANNING/MARKETING

TITLE: STRATEGIC PLANNING (85-V-A)

DESCRIPTION:

Develop and carry out strategic planning for all energy conservation programs carried out by the Conservation Division of the Iowa Energy Policy Council.

OBJECTIVES:

Write one or more objective for every Energy Conservation Division program. Measure the results and outcomes of each program by June 30, 1986.

STRATEGIES:

Select the program activities to be evaluated by staff or by a contractor, finalize all written objectives to meet the following criteria:

- Attainable and controllable
- Time related (has completion dates)
- Measurable (quantity and quality)
- Result oriented (specific changes desired)
- Consistent with division goals

Execute a request for proposals and contracts and make staff assignments, review methodologies, carry out evaluations, write reports.

EVALUATION:

Management review of contractor and staff reports.

ENVIRONMENTAL ANALYSIS:

No impact anticipated.

PART IV NARRATIVE

5. PLANNING/MARKETING

TITLE: MARKETING/MARKET RESEARCH (85-V-B)

DESCRIPTION:

Conduct marketing activities including the measurement of consumer attitudes and opinions in all economic sectors to determine the most effective marketing mix for stimulating conservation and alternative energy applications. This activity is particularly directed to the Warner Amendment funded demonstration projects.

OBJECTIVES:

List the methods and strategies for marketing three programs by August 1985: 1) community energy management demonstration, 2) energy management demonstrations in state government buildings, 3) energy management technician demonstration project.

Marketing activities will be developed by consultant(s) and will result in placement of at least 2 additional energy management technician (EMT) contracts. All superintendents within the state will be aware of the EMT as a new job resource for controlling energy costs.

One community leader in at least 10% of all Iowa cities will be informed of the Energy Policy Council sponsored community energy management demonstration projects by June 30, 1986.

Inform at least 30 residential care facility operators of the value of energy management using the work demonstrated at the Riverview Release Center as an example by June 30, 1986.

Inform at least 100 legislators about the monetary value to the State of Iowa of energy conservation capital improvements based on the Riverview Release Center, Beer and Liquor Control Department, University of Iowa, Lucas Building Window Project, and Fort Madison Penitentiary, demonstrations funded under the Warner Amendment as directed by the state legislature by June 30, 1985 (as described in the 1984 State Energy Conservation Program--SECP).

Inform at least 50 industrial/commercial steam users of the value of energy conservation projects, particularly steam system modifications, by June 30, 1986 (as described in the 1984 State Energy Conservation Program--SECP).

Inform at least 100 owners/operators of commercial buildings of the value of energy management based on the experience of the Lucas Building window demonstration project by June 30, 1986 (as described in the 1984 State Energy Conservation Program--SECP).

Inform at least 1000 students of the implementation of the University of Iowa energy management system and 100 operators of campus facilities by June 30, 1986. Inform at least 10 other campus type facilities of the value of an energy management system based on the University of Iowa demonstration by June 30, 1986 (as described in the 1984 State Energy Conservation Program--SECP)

Inform at least 30 operators of residential care facilities of the value of energy conservation measures based on the Riverview Release Center demonstration by June 30, 1986 (as described in the 1984 State Energy Conservation Program--SECP).

STRATEGIES:

Issue a request for proposal and select a marketing consultant to carry out the research and planning needed to meet the above objectives.

EVALUATION:

Survey targeted audiences to determine effectiveness of each marketing strategy and determine behavioral changes or actions taken as a result of the demonstrations.

ENVIRONMENTAL ANALYSIS:

No direct impact, indirectly, a positive impact may be expected for the adoption of demonstrated energy improvement technologies.

PART IV NARRATIVE

5. PLANNING/MARKETING

TITLE: MARKETING ENERGY EDUCATION (85-V-C)

DESCRIPTION:

To implement the Iowa Energy Policy Council (EPC) energy education materials (ECAPs, IDEAS) and other energy education materials suitable for use in Iowa schools and communities. The general purpose of this implementation program is to expose educators through inservice¹ to EPC energy education materials and to encourage the use of the materials, to hold workshops, to establish community-school programs, and to accumulate data for possible revisions/additions to these materials, workshops, and programs.

OBJECTIVES:

To conduct at least 25 energy education inservice¹ workshops for at least 625 Iowa teachers by June 30, 1986.

STRATEGIES:

Execute a contract with the Iowa Department of Public Instruction.

EVALUATION:

Survey teachers and students to determine client satisfaction and behavioral changes.

ENVIRONMENTAL ANALYSIS:

No direct impact, indirectly, a reduction in air pollution emissions is expected from the Residential Energy Conservation measures adopted by clients.

¹Refers to energy education activities (training, information sharing, etc.) usually conducted at schools for teachers or students.

ASSURANCES

(Part V)

The Iowa Energy Policy Council hereby assures and certifies that it will comply with the regulations, policies, guidelines, and requirements, including FMC 74-4 (Cost Principles Applicable to Grants and Contracts with State and Local Governments), as they relate to the application, acceptance, and use of Federal funds for this federally assisted project. Also the applicant assures and certifies with respect to the project that:

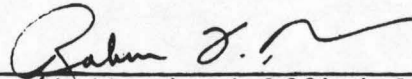
- (1) It possesses legal authority to apply for the grant; that a resolution, motion, or similar action has been duly adopted or passed as an official act of the applicant's governing body, if necessary, authorizing the filing of the application, including all understandings and assurances contained therein, and directing and authorizing the person identified as the official representative of the applicant to act in connection with the application and to provide such additional information as may be required.
- (2) It will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and in accordance with Title VI of that Act, no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the applicant received Federal financial assistance, and will immediately take any measures necessary to effectuate this agreement.
- (3) It will comply with Title VI of the Civil Rights Act of 1964 (42 USC 2000d) prohibiting employment discrimination where (1) the primary purpose of a grant is to provide employment or (2) discriminatory employment practices will result in unequal treatment of persons who are or should be benefiting from the grant-aided activity.
- (4) It will comply with requirements of the provisions of the Uniform Relocation Assistance with Real Property Acquisitions Act of 1970 (P.L. 91-646) which provides for fair and equitable treatment of persons displaced as a result of Federal and federally assisted programs.
- (5) It will comply with the provisions of the Hatch Act which limit the political activity of employees.
- (6) It will comply with minimum wage and maximum hours provisions of the Federal Fair Labor Standards Act, as they apply to hospital and educational institution employees of State and local governments.

- (7) It will establish safeguards to prohibit employees from using their positions for a purpose that is or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business, or other ties.
- (8) It will give the grantor agency or the Comptroller General, through any authorized representative, the access to and right to examine all records, books, papers, or documents related to the grant.
- (9) It will comply with all requirements imposed by the Federal grantor agency concerning special requirements of law, program requirements, and other administrative requirements approved in accordance with A-102.
- (10) It will insure that the facilities under its ownership, lease or supervision which shall be utilized in the accomplishment of the project are not listed on the Environmental Protection Agency's (EPA) list of Violating Facilities and that it will notify the Federal grantor agency of the receipt of any communication from the Director of the EPA Office of Federal Activities indicating that a facility to be used in the project is under consideration for listing by the EPA.
- (11) It will comply with the flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973, P.L. 93-234, 87 Stat. 975, approved December 31, 1976. Section 102(a) requires, on and after March 2, 1975, the purchase of flood insurance in communities where such insurance is available as a condition for the receipt of any Federal financial assistance for construction or acquisition purposes for use in any area that has been identified by the Secretary of the Department of Housing and Urban Development as an area having special flood hazards. The phrase "Federal financial assistance" includes any form of loan, grant, guaranty, insurance payment, rebate, subsidy, disaster assistance loan or grant, or any other form of direct or indirect Federal assistance.
- (12) It will assist the Federal grantor agency in its compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (16 USC 470), Executive Order 11593, and the Archeological and Historic Preservation Act of 1966 (16 USC 469a-1 et. seq.) by (a) consulting with the State Historic Preservation Officer on the conduct of investigations, as necessary, to identify properties listed in or eligible for inclusion in the National Register of Historic Places that are subject to adverse effects (see 36 CFR Par 800.8) by the activity, and notifying the Federal grantor agency of the existence of any such properties,

and by (b) complying with all requirements established by the Federal grantor agency to avoid or mitigate adverse effects upon such properties.

5-16-85

(Date)



(Authorized Official)

Director
(Title)

Iowa Energy Policy Council

Lucas State Office Building

Des Moines, Iowa 50319
(Address)

(515) 281-4420
(Telephone)

U.S. Department of Energy

Assurance of Compliance

Nondiscrimination in Federally Assisted Programs

The Iowa Energy Policy Council (Hereinafter called the "Applicant") HEREBY AGREES to comply with Title VI of the Civil Rights Act of 1964 (Pub. L. 88-352), Section 16 of the Federal Energy Administration Act of 1974 (Pub. L. 93-275), Section 401 of the Energy Reorganization Act of 1974 (Pub. L. 93-438), Title IX of the Education Amendments of 1972, as amended, (Pub. L. 92-318, Pub. L. 93-568, and Pub. L. 94-487), Section 504 of the Rehabilitation Act of 1973 (Pub. L. 93-112), the Age Discrimination Act of 1975 (Pub. L. 94-135), Title VIII of the Civil Rights Act of 1968 (Pub. L. 90-284), the Department of Energy Organization Act of 1977 (Pub. L. 95-91), and the Energy Conservation and Production Act of 1976, as amended, (Pub. L. 94-385). In accordance with the above laws and regulations issued pursuant thereto, the Applicant agrees to assure that no person in the United States shall, on the ground of race, color, national origin, sex, age, or handicap, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity in which the Applicant receives Federal assistance from the Department of Energy.

**Applicability and
Period of Obligation**

In the case of any service, financial aid, covered employment, equipment, property, or structure provided, leased, or improved with Federal assistance extended to the Applicant by the Department of Energy, this assurance obligates the Applicant for the period during which Federal assistance is extended. In the case of any transfer of such service, financial aid, equipment, property, or structure, this assurance obligates the transferee for the period during which Federal assistance is extended. If any personal property is so provided, this assurance obligates the Applicant for the period during which it retains ownership or possession of the property. In all other cases, this assurance obligates the Applicant for the period during which the Federal assistance is extended to the Applicant by the Department of Energy.

Employment Practices

Where a primary objective of the Federal assistance is to provide employment or where the Applicant's employment practices affect the delivery of services in programs or activities resulting from Federal assistance extended by the Department, the Applicant agrees not to discriminate on the ground of race, color, national origin, sex, age, or handicap, in its employment practices. Such employment practices may include, but are not limited to, recruitment, recruitment advertising, hiring, layoff or termination, promotion, demotion, transfer, rates of pay, training and participation in upward mobility programs, or other forms of compensation and use of facilities.

Subrecipient Assurance

The Applicant shall require any individual, organization, or other entity with whom it subcontracts, subgrants, or subleases for the purpose of providing any service, financial aid, equipment, property, or structure to comply with laws cited above. To this end, the subrecipient shall be required to sign a written assurance form, however, the obligation of both recipient and subrecipient to ensure compliance is not relieved by the collection or submission of written assurance forms.

**Data Collection and
Access to Records**

The Applicant agrees to compile and maintain information pertaining to programs or activities developed as a result of the Applicant's receipt of Federal assistance from the Department of Energy. Such information shall include, but is not limited to, the following: (1) the manner in which services are or will be provided and related data necessary for determining whether

any persons are or will be denied such services on the basis of prohibited discrimination; (2) the population eligible to be served by race, color, national origin, sex, age and handicap; (3) data regarding covered employment including use or planned use of bilingual public contact employees serving beneficiaries of the program where necessary to permit effective participation by beneficiaries unable to speak or understand English; (4) the location of existing or proposed facilities connected with the program and related information adequate for determining whether the location has or will have the effect of unnecessarily denying access to any person on the basis of prohibited discrimination; (5) the present or proposed membership by race, color, national origin, sex, age and handicap, in any planning or advisory body which is an integral part of the program; and (6) any additional written data determined by the Department of Energy to be relevant to its obligation to assure compliance by recipients with laws cited in the first paragraph of this assurance.

The Applicant agrees to submit requested data to the Department of Energy regarding programs and activities developed by the Applicant from the use of Federal assistance funds extended by the Department of Energy. Facilities of the Applicant (including the physical plants, buildings, or other structures) and all records, books, accounts, and other sources of information pertinent to the Applicant's compliance with the civil rights laws shall be made available for inspection during normal business hours on request of an officer or employee of the Department of Energy specifically authorized to make such inspections. Instructions in this regard will be provided by the Director, Office of Equal Opportunity, U.S. Department of Energy.

This assurance is given in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts (excluding procurement contracts), property, discounts or other Federal assistance extended after the date hereto, to the Applicant by the Department of Energy, including installment payments on account after such date of application for Federal assistance which are approved before such date. The Applicant recognizes and agrees that such Federal assistance will be extended in reliance upon the representations and agreements made in this assurance and that the United States shall have the right to seek judicial enforcement of this assurance. This assurance is binding on the Applicant, its successors, transferees, and assignees, as well as the person whose signature appears below and who is authorized to sign this assurance on behalf of the Applicant.

5-16-85

(Date)

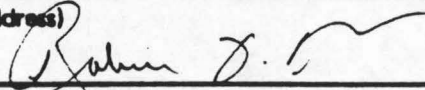
Iowa Energy Policy Council

(Name of Applicant)

Lucas State Office Building

Des Moines, IA 50319

(Address)


(Authorized Official) Robert F. Tyson, Director

519 281-4420

(Applicant's Telephone Number)

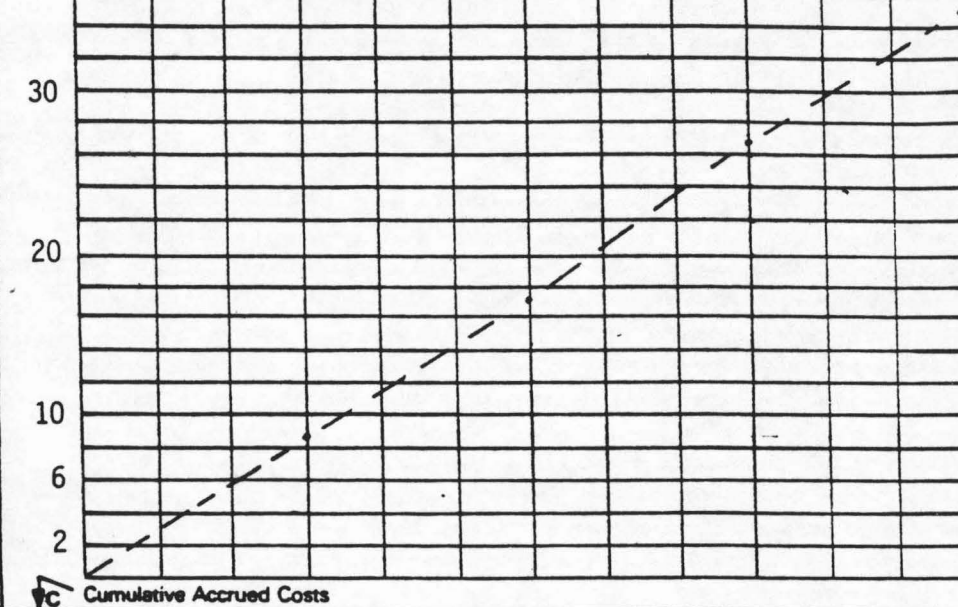
**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

1. Program/Project Identification No. 1	2. Program/Project Title Required Programs	3. Reporting Period _____ through _____
Name and Address IOWA ENERGY POLICY COUNCIL Capital Complex DES MOINES, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986

FY 85	8. Months or Quarters Quarters	J	A	S	O	N	D	J	F	M	A	M	J
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Cost Status	a. Dollars Expressed in Thousands	b. Dollar Scale	
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Fund Source		Quarter				Cum. to Date	Tot. Plan
		1st	2nd	3rd	4th		
SECP	P	8.6	8.8	9.0	9.1		35.5
	A						
	P						
	A						
	P						
	A						
	P						
	A						
Total P		8.6	8.8	9.0	9.1		35.5
Total A							
Variance							



Total Planned Costs for Program/Project	Planned	Actual	Variance										
	8.6	17.4	26.4	35.5									

11. Major Milestone Status	Units Planned	Units Complete
	Rideshare signs installed by Iowa Department of Transportation	P 6
Legislation recommended to Council	P 3	C
Direct mail rideshare promotion	P 100	C
Park and ride location developed	P 1	C
Council recommends legislation to General Assembly	P 3	C
Park and ride lot evaluated	P 1	C
Capitol Complex promotion of pooling is initiated	P 1	C
LCC story(s) are published	P 1	C

12 Remarks

13. Signature of Recipient and Date <i>Nennis Chubbey</i> 5-15-85	14. Signature of DOE Reviewing Representative and Date _____ 36
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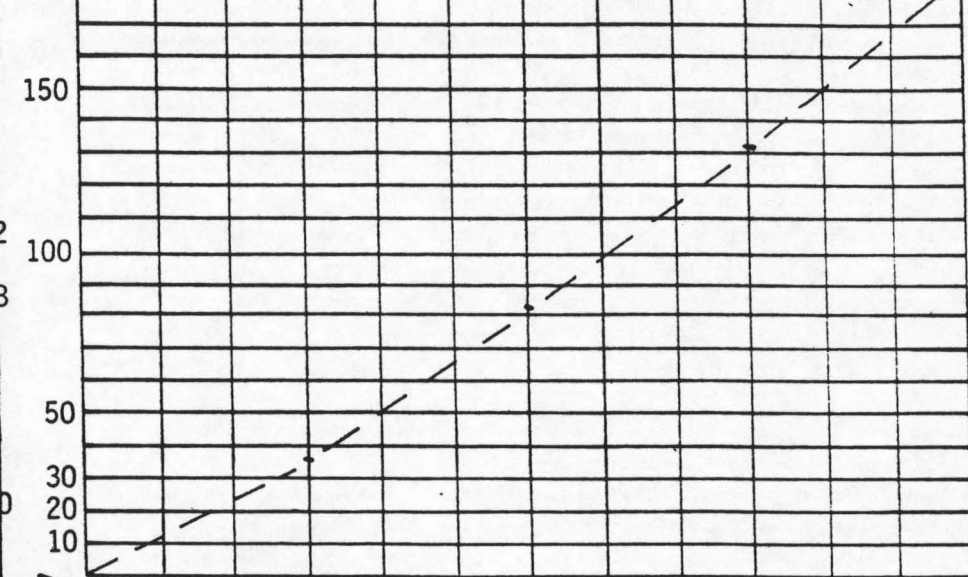
**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

1. Program/Project Identification No. 2	2. Program/Project Title Community Energy Management Demonstration	3. Reporting Period _____ through _____
4. Name and Address IOWA ENERGY POLICY COUNCIL Capital Complex DES MOINES, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986

7. FY 85	8. Months or Quarters Quarters	<table style="width:100%; text-align: center; border-collapse: collapse;"> <tr> <td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td> </tr> </table>	J	A	S	O	N	D	J	F	M	A	M	J
J	A	S	O	N	D	J	F	M	A	M	J			

9. Cost Status a. Dollars Expressed in Thousands	b. Dollar Scale ↓	
---	----------------------	--

Fund Source		Quarter				Cum. to Date	Tot. Plan
		1st	2nd	3rd	4th		
SECP	P	33.1	37.2	38.9	34.0		143.2
	A						
State Match	P	4.5	6.7	11.2	22.4		44.8
	A						
	P						
	A						
	P						
	A						
Total P		37.6	43.9	50.1	56.4		188.0
Total A							
Variance							



Total Planned Costs for Program/Project	Planned		37.6		81.5		131.5		188.0
	Actual								
	Variance								

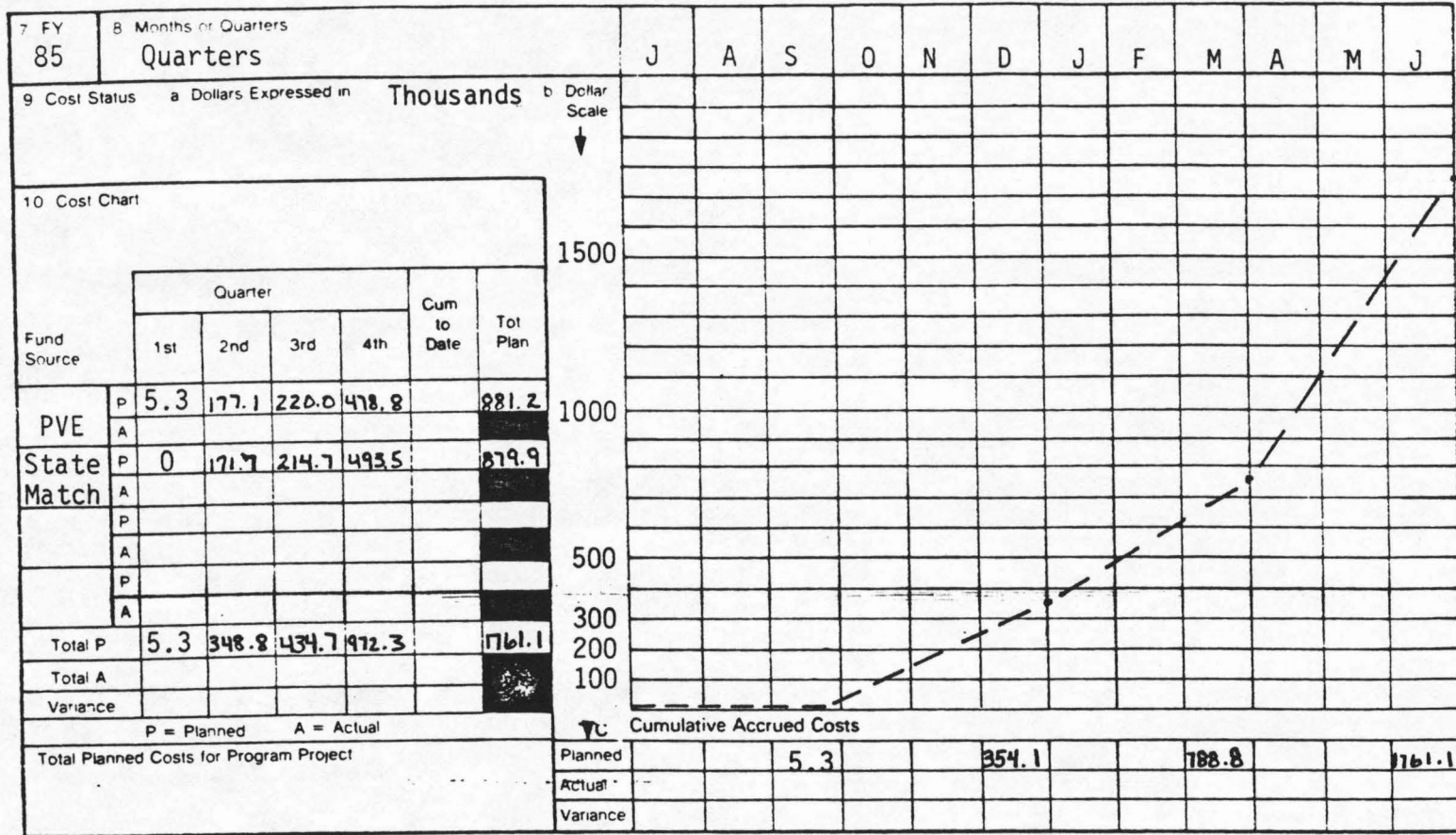
11. Major Milestone Status	Units Planned	Timeline
	Units Complete	
Financing handbook completed	P 1	Timeline bar from July 1985 to August 1985, ending with a triangle.
Vehicle fleet maintenance operational	P 2	Timeline bar from August 1985 to September 1985, ending with a triangle.
Mobile home retrofits completed	P 3	Timeline bar from September 1985 to November 1985, ending with a triangle.
Thermography completed on all buildings	P 100%	Timeline bar from November 1985 to January 1986, ending with a triangle.
Analysis of alternative energy production is completed	P 4	Timeline bar from January 1986 to March 1986, ending with a triangle.
Local government building profile is completed	P 100	Timeline bar from March 1986 to May 1986, ending with a triangle.
LCC study is published	P 1	Timeline bar from May 1986 to June 1986, ending with a triangle.
Community energy conference is conducted	P 1	Timeline bar from June 1986 to July 1986, ending with a triangle.

12. Remarks

13. Signature of Recipient and Date <i>Dennis Guffey</i> 5-15-85	14. Signature of DOE Reviewing Representative and Date 37
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U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT

1 Program Project Identification No 2A	2 Program Project Title Community Energy Management Demonstration	3 Reporting Period _____ through _____
4 Name and Address IOWA ENERGY POLICY COUNCIL Capital Complex DES MOINES, IA 50319		5 Program Project Start Date July 1, 1985
		6 Completion Date June 30, 1986



11 Major Milestone Status	P												
	C												
Demonstration contracts drafted	P 2												
	C												
Contracts for audits are executed	P 10												
	C												
Audits are completed	P 20												
	C												
Additional contracts for audits are executed	P 10												
	C												
Community demonstrations are completed	P 2												
	C												
Training sessions are completed	P 4												
	C												
Additional community demonstrations are implemented	P 2												
	C												
Additional audits are completed	P 20												
	C												

12 Remarks
Revised 5/31/85

13 Signature of Recipient and Date <i>Norris Guffey</i> 5-31-85 38	14 Signature of DOE Reviewing Representative and Date
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**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

Program/Project Identification No. 3	2. Program/Project Title Energy Management for the Farm	3. Reporting Period _____ through _____
Name and Address IOWA ENERGY POLICY COUNCIL Capital Complex DES MOINES, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986

FY 85	8 Months or Quarters Quarters	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td> </tr> </table>	J	A	S	O	N	D	J	F	M	A	M	J
J	A	S	O	N	D	J	F	M	A	M	J			

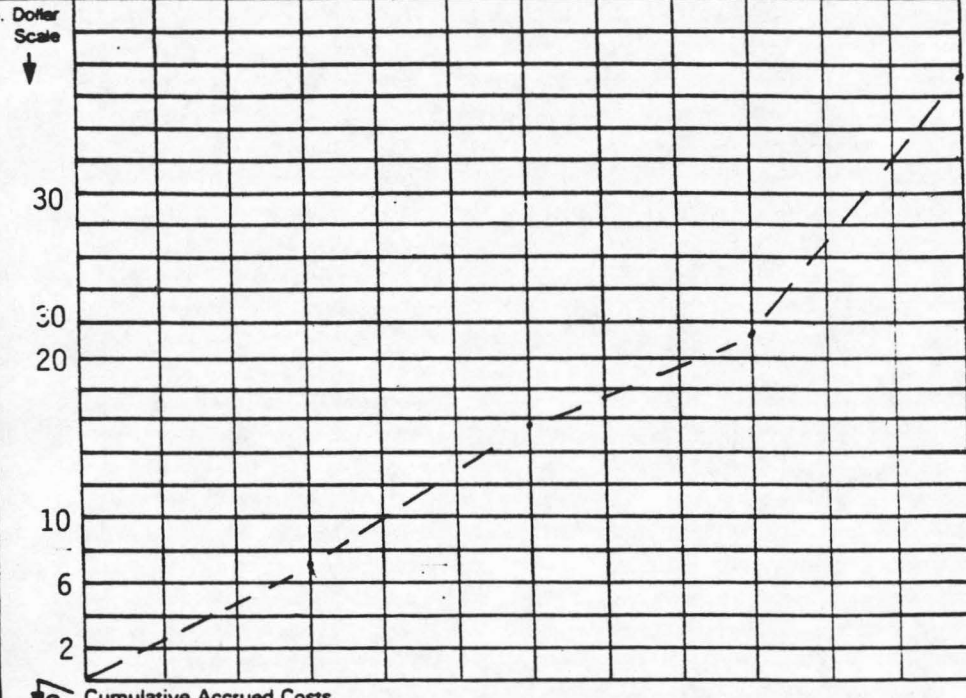
Cost Status a. Dollars Expressed in **Thousands** b. Dollar Scale

↓

10. Cost Chart

Fund Source	Type	Quarter				Cum. to Date	Tot. Plan
		1st	2nd	3rd	4th		
ECP	P	7.2	8.7	10.2	11.7		37.8
	A						
	P						
	A						
	P						
	A						
Total P		7.2	8.7	10.2	11.7		37.8
Total A							
Variance							

P = Planned A = Actual



Total Planned Costs for Program/Project	Planned		7.2		15.9		26.1		37.8
	Actual								
	Variance								

11. Major Milestone Status

Milestone	Units Planned	Units Complete	Status
Contract is executed	P 1	C	Completed
Survey is completed	P 600	C	Completed
Report is distributed and evaluated	P 1000	C	Completed
	P	C	
	P	C	
	P	C	
	P	C	
	P	C	
	P	C	
	P	C	

12. Remarks

13. Signature of Recipient and Date <i>Dennis Coffey</i> 5-15-85	14. Signature of DOE Reviewing Representative and Date 39
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**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

1. Program/Project Identification No. 4	2. Program/Project Title Resource Development	3. Reporting Period _____ through _____
Name and Address IOWA ENERGY POLICY COUNCIL Capital Complex DES MOINES, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986

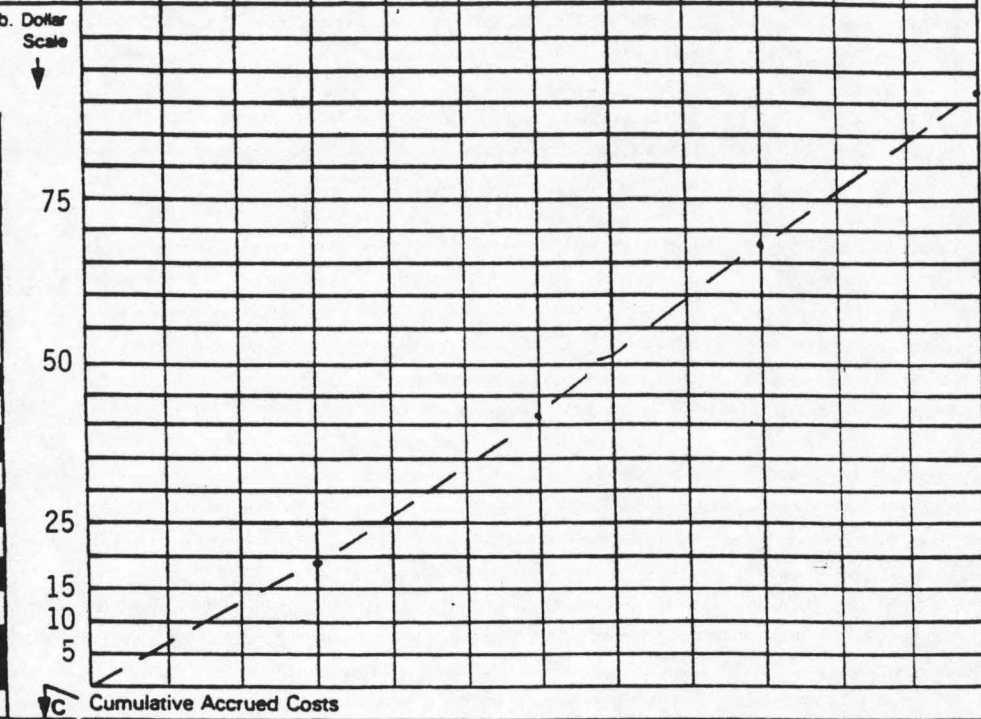
FY 85	8. Months or Quarters Quarters	<table style="width:100%; text-align: center; border-collapse: collapse;"> <tr> <td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td> </tr> </table>	J	A	S	O	N	D	J	F	M	A	M	J
J	A	S	O	N	D	J	F	M	A	M	J			

Cost Status	a. Dollars Expressed in Thousands	b. Dollar Scale ↓	
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D. Cost Chart

Fund Source		Quarter				Cum. to Date	Tot. Plan
		1st	2nd	3rd	4th		
ECP	P	19.8	21.8	23.8	25.8		91.2
	A						
	P						
	A						
	P						
	A						
	P						
	A						
Total P		19.8	21.8	23.8	25.8		91.2
Total A							
Variance							

P = Planned A = Actual



Total Planned Costs for Program/Project	Planned		19.8		41.6		65.4		91.2
	Actual								
	Variance								

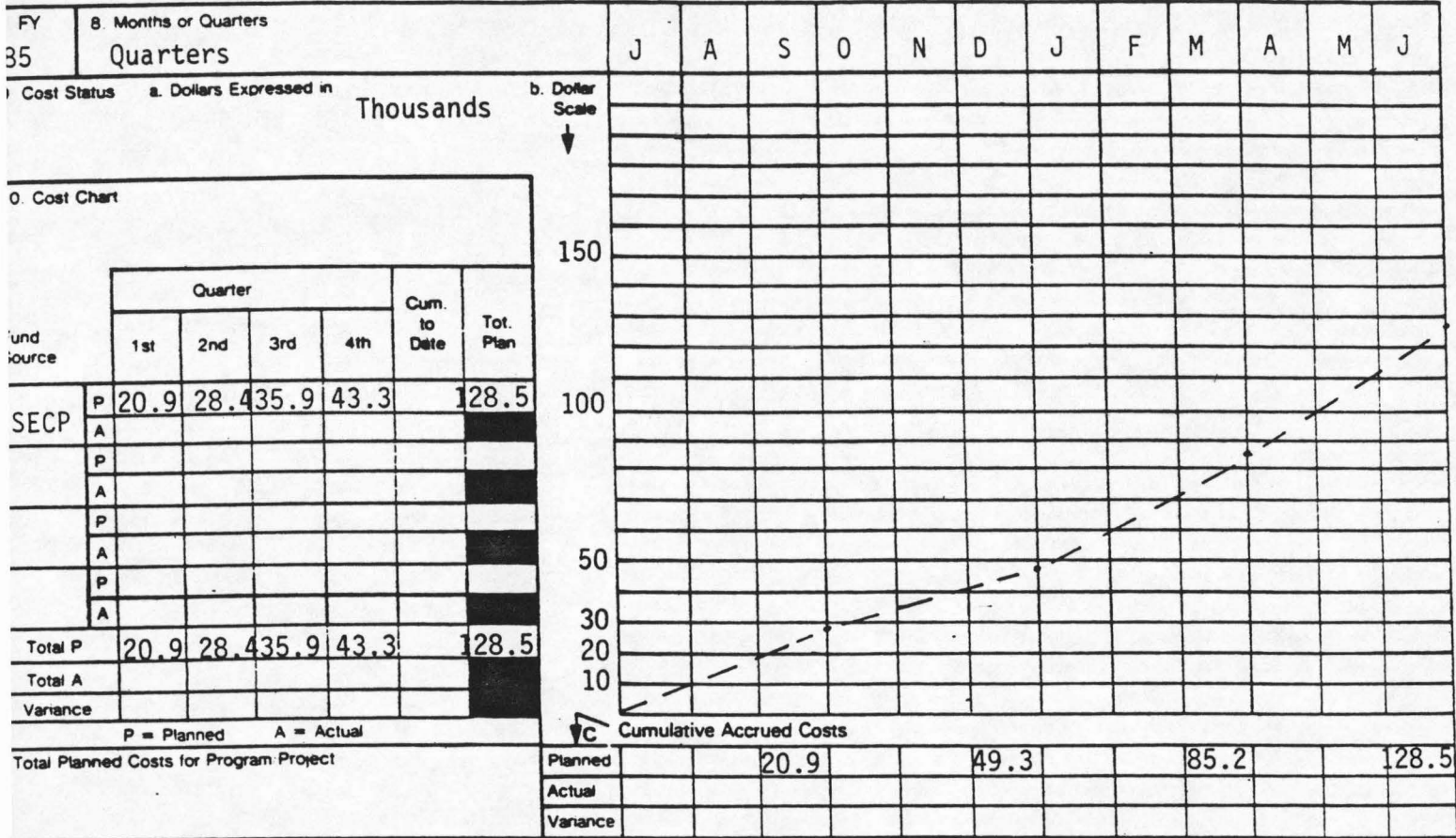
11. Major Milestone Status	Units Planned	Units Complete
Fluidized bed combustion study is printed and distributed	P 1	
	C	▲
Cogeneration contract is executed	P 1	
	C	▲
Cogeneration study is completed and distributed	P 1	
	C	▲
	P	
	C	
	P	
	C	
	P	
	C	
	P	
	C	

12. Remarks

13. Signature of Recipient and Date <i>Dennis Coffey</i> 5-15-85	14. Signature of DOE Reviewing Representative and Date 40
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**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

1. Program/Project Identification No. 5	2. Program/Project Title Planning/Marketing	3. Reporting Period _____ through _____
Name and Address IOWA ENERGY POLICY COUNCIL Capital Complex DES MOINES, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986



11. Major Milestone Status	Units Planned			
	Units Complete			
Objectives for all division program activities are written	P 50			
	C		△	
Request for proposals are let for evaluation of selected	P 1			
	C		△	
Marketing plan is completed	P 1			
	C		△	
Contract is executed with Iowa Dept. of Public Instruction	P 1			
	C		△	
Evaluations completed by staff and contractor(s)	P 20			
	C			△
Energy education workshops are completed	P 25			
	C			△
	P			
	C			
	P			
	C			

12. Remarks

13. Signature of Recipient and Date <i>Dennis Guffey</i> 5-15-85	14. Signature of DOE Reviewing Representative and Date 41
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1985 ENERGY AVOIDANCE ESTIMATES

Using previous year annual reports to the U. S. Department of Energy and the methodologies described below, energy avoidance (savings) for the 1985 State Energy Conservation Program are itemized, as follows:

	<u>10¹² BTUs</u>
<u>1. Required Program</u>	
Lighting Efficiency Standards	6.3*
Transportation Measures	0.3*
Procurement Practices	0.6*
Thermal Standards	27.8*
Right-Turn-On-Red	-0-
	35.0
<u>2. Community Energy Management Demonstrations</u>	
Local Government Data Base	-0-
Energy Financing for Local Governments	1.2
Life-cycle Cost for New/Renovated Buildings	NEGL.
Community Energy Conference	0.9
Vehicle Fleet Maintenance	NEGL.
Home Heating Index	NEGL.
Thermography	NEGL.
Utility Energy Management	25.1
Technical Assistance	-0-
Mobile Home Retrofit	NEGL.
	27.2
<u>2A. Community Energy Management Demonstrations</u>	
Energy Audits and Analyses	NEGL.
Comprehensive Community Energy Management Demonstrations	0.1
Local Government Training	NEGL.
	0.1
<u>3. Energy Management for the Farm</u>	
Farm Fuel Use Report	-0-
	0.1
<u>4. Resource Development</u>	
Fluidized Bed Combustion Study	-0-
Cogeneration Inventory	-0-
	-0-
<u>5. Planning/Marketing</u>	
Strategic Planning	-0-
Marketing/Market Research	-0-
Marketing Energy Education	NEGL.
	-
TOTAL	62.3

*From 1984 SECP Annual Report

METHODOLOGIES

● Energy Financing for Local Governments

Eight energy management technicians working for local governments in FY 1984-85, conserved an estimated 1.2×10^{12} BTUs. It is assumed that energy financing will equal or exceed this accomplishment.

● Life-cycle Cost for New and Renovated Buildings

Assumptions: 10 new/renovated buildings impacted
Average building size is $10,000 \text{ ft}^2$
Savings is equivalent to the difference between conventional and ASHRAE 90-75 consumption patterns for office buildings.

Data: annual consumption for an ASHRAE 90-75 office building = $109.0 \times 10^3 \text{ BTUs/ft}^2/\text{yr.}$; conventional office building = $280.9 \times 10^3 \text{ BTUs/ft}^2/\text{yr.}$

Calculation:
$$\text{EV} = 10 \times 10,000 \times (280.9 - 109.0) \div 10^2 = \underline{\underline{0.02 \times 10^{12} \text{ BTUs}}}$$

● Vehicle Fleet Maintenance

Assumptions: 2 community fleets of 20 vehicles each
Average miles driven/year = 10,000
Average MPG = 18
Average VFM savings = 10%

Data: $.125 \times 10^6 \text{ BTUs/gallon gasoline}$

Calculation:
$$\text{EV} = .10 \frac{(40 \times 10,000)}{18} \times \frac{.125}{10^3} = \underline{\underline{0.3 \times 10^9 \text{ BTUs}}}$$

● Home Heating Index

Assumptions: 2 communities with 3,000 homes
Average compliance rate = 20%
Average savings = 10%
Average consumption = $200 \times 10^6 \text{ BTUs/yr.}$

Calculation:
$$\text{EV} = [3,000 \times 200 \times .20 \times .10] \div 10^6 = \underline{\underline{0.012 \times 10^{12} \text{ BTUs}}}$$

● Thermography

Assumptions: 2 communities with 3,000 homes
Average compliance rate = 50%
Average savings = 10%
Average consumption = $200 \times 10^6 \text{ BTUs/yr.}$

Calculation:
$$\text{EV} = (3,000 \times 200 \times .5 \times .1) \div 10^6 = \underline{\underline{0.03 \times 10^{12} \text{ BTUs}}}$$

● Utility Energy Management

Assumptions: 5 utilities practice load management
Typical savings from 1984 annual report = $20.1 \times 10^{12} \text{ BTUs}$

Calculation:
$$\text{EV} = \frac{.5 \times 20.1}{4} = \underline{\underline{25.1 \times 10^{12} \text{ BTUs}}}$$

● Mobile Home Retrofit

Assumptions: 3 mobile home demonstrations
Typical weatherization savings = 10%
Average annual consumption = 150×10^9 BTUs
Calculation: $(.1 \times 3 \times 150) \div 10^3 = \underline{\underline{0.045 \times 10^{12} \text{ BTUs}}}$

● Energy Audits and Analyses

Assumptions: 40 buildings
10% average savings
Average size of buildings = 20,000 ft²
Typical consumption = 280,000 BTUs/ft²
Calculation: $EV = 40 (.10 \times .28 \times 20) \div 10^3 = \underline{\underline{0.022 \times 10^{12} \text{ BTUs}}}$

● Comprehensive Community Energy Management Demonstrations

Assumptions: 4 communities with 4 buildings each
Sioux Center savings = \$30,000
6 months of savings
S = 3/4 natural gas; 1/4 electricity
Data: Electricity = \$11.64/million BTUs
Natural Gas = \$3.08/million BTUs
3.33 = Conversion of electricity to primary fuel
Calculation: $EV = 16 \times .5 \left[\frac{22,500}{3.08} + \frac{(7,500 \times 3.33)}{11.64} \right] = \underline{\underline{0.076 \times 10^{12} \text{ BTUs}}}$

● Local Government Training

Assumptions: Train 200 people
1984 savings for training 136 = 0.001 10^{12} BTUs
Calculation: $EV = 200/136 \times 0.001 = \underline{\underline{0.002 \times 10^{12} \text{ BTUs}}}$

(17)

RATE AGREEMENT
STATE AND LOCAL DEPARTMENT/AGENCIES

DEPARTMENT/AGENCY:
Iowa Energy Policy Council
Capital Complex
Des Moines, Iowa

DATE: July 26, 1984

FILING REF.: The preceding Agreement was dated

N/A

The rates approved in this Agreement are for use on grants, contracts and other agreements with the Federal Government subject to the conditions in Section II.

SECTION I: RATES

<u>Type</u>	<u>Effective Period</u>		<u>Rate</u>	<u>Locations</u>	<u>Applicable To</u>
	<u>From</u>	<u>To</u>			
INDIRECT COST RATES*					
Provisional	7/1/84	6/30/85	39.2%	All	All Programs
Provisional	7/1/85	Until Amended	39.2%	All	All Programs

*BASE: Direct salaries and wages including all fringe benefits.

TREATMENT OF PAID ABSENCES:

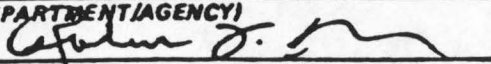
Vacation, holiday, sick leave pay, and other paid absences are included in salaries and wages and are charged to grants and contracts as part of the normal charge for salaries and wages. Separate charges for the costs of these absences are not made.

TREATMENT OF FRINGE BENEFITS:


Fringe benefits applicable to direct salaries and wages are treated as direct costs.

- A. LIMITATIONS:** The rates in this Agreement are subject to any statutory or administrative limitations and apply to a given grant, contract or other agreement only to the extent that funds are available. Acceptance of the rates is subject to the following conditions: (1) Only costs incurred by the department/agency or allocated to the department/agency by an approved cost allocation plan were included in its indirect cost pool as finally accepted; such costs are legal obligations of the department/agency and are allowable under the governing cost principles; (2) The same costs that have been treated as indirect costs are not claimed as direct costs; (3) Similar types of costs have been accorded consistent accounting treatment; and (4) The information provided by the department/agency which was used to establish the rates is not later found to be materially incomplete or inaccurate.
- B. ACCOUNTING CHANGES:** If a fixed or predetermined rate is in this Agreement, it is based on the accounting system purported by the department/agency to be in effect during the Agreement period. Changes to the method of accounting for costs which affect the amount of reimbursement resulting from the use of this Agreement require prior approval of the authorized representative of the cognizant agency. Such changes include, but are not limited to, changes in the charging of a particular type of cost from indirect to direct. Failure to obtain approval may result in cost disallowances.
- C. FIXED RATES:** If a fixed rate is in this Agreement, it is based on an estimate of the costs for the period covered by the rate. When the actual costs for this period are determined, an adjustment will be made to a future year(s) rate to compensate for the difference between the costs used to establish the fixed rate and actual costs.
- D. AUDIT:** If a rate in this Agreement contains amounts from a cost allocation plan, future audit adjustments which affect this cost allocation plan will be compensated for during the rate approval process of a subsequent year.
- E. USE BY OTHER FEDERAL AGENCIES:** The rates in this Agreement were approved in accordance with the authority in Office of Management and Budget Circular A-87, and should be applied to grants, contracts and other agreements covered by this Circular, subject to any limitations in A above. The department/agency may provide copies of the Agreement to other Federal Agencies to give them early notification of the Agreement.
- F. OTHER** If any Federal contract, grant or other agreement is reimbursing indirect costs by a means other than the approved rate(s) in this Agreement, the department/agency should (1) credit such costs to the affected programs and (2) apply the approved rate(s) to the appropriate base to identify the proper amount of indirect costs allocable to these programs.
- G. SPECIAL REMARKS:** None

BY THE DEPARTMENT/AGENCY

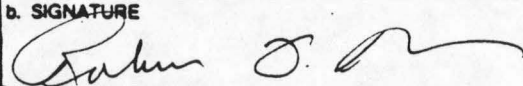
Iowa Energy Policy Council
 (DEPARTMENT/AGENCY)

 (SIGNATURE)
 Robert P. Tyson
 (NAME)
 Director
 (TITLE)
 July 31, 1984
 (DATE)

BY THE COGNIZANT AGENCY ON
 BEHALF OF THE FEDERAL GOVERNMENT

Department of Health and Human Services
 (AGENCY)

 (SIGNATURE)
 Merle M. Schmidt
 (NAME)
 Director
 Division of Cost Allocation
 (TITLE)
 July 26, 1984
 (DATE)
 Donald A. Carroll
 (NAME)
 HHS Representative
 Commercial 816/374-2304
 Telephone FTS 758-2304

ENERGY EXTENSION SERVICE

PART A

FEDERAL ASSISTANCE		2. APPLICANT'S APPLICATION IDENTIFIER		a. NUMBER 10	3. STATE APPLICATION IDENTIFIER		a. NUMBER N.A.
1. TYPE OF SUBMISSION (Mark appropriate box) <input type="checkbox"/> NOTICE OF INTENT (OPTIONAL) <input type="checkbox"/> PREAPPLICATION <input checked="" type="checkbox"/> APPLICATION		b. DATE Year month day 19 85 4 30		NOTE: TO BE ASSIGNED BY STATE		b. DATE ASSIGNED Year month day N.A. 19	
4. LEGAL APPLICANT/RECIPIENT		5. EMPLOYER IDENTIFICATION NUMBER (EIN) 42-6004571				6. PROGRAM (From CFDA)	
a. Applicant Name: State of Iowa						a. NUMBER: 8 0 * 1 5 1	
b. Organization Unit: Iowa Energy Policy Council						MULTIPLE <input type="checkbox"/>	
c. Street/P.O. Box: Lucas State Office Building						b. TITLE: Energy Extension Service	
d. City: Des Moines		e. County: Polk					
f. State: Iowa		g. ZIP Code: 50319					
h. Contact Person (Name & Telephone No.): Larry L. Bean (515) 281-4420							
7. TITLE OF APPLICANT'S PROJECT (Use section IV of this form to provide a summary description of the project.) Iowa Energy Extension Service Plan for 1985-86.		8. TYPE OF APPLICANT/RECIPIENT A-State B-Servicewards C-Business Organization D-County E-City F-School District G-Special Purpose District H-Community Action Agency I-Higher Educational Institution J-Indian Tribe K-Other (Specify): Enter appropriate letter <input checked="" type="checkbox"/> A					
9. AREA OF PROJECT IMPACT (Names of cities, counties, states, etc.) State of Iowa		10. ESTIMATED NUMBER OF PERSONS BENEFITING 3,000,000		11. TYPE OF ASSISTANCE A-Basic Grant B-Supplemental Grant C-Lease D-Insurance E-Other Enter appropriate letter(s) <input checked="" type="checkbox"/> A			
12. PROPOSED FUNDING		13. CONGRESSIONAL DISTRICTS OF: IA1-6		14. TYPE OF APPLICATION A-New B-Renewal C-Revision D-Continuation E-Augmentation Enter appropriate letter <input checked="" type="checkbox"/> D			
a. FEDERAL \$ 145,000.00		a. APPLICANT		b. PROJECT Statewide			
b. APPLICANT .00		15. PROJECT START DATE Year month day 19 85 7 1		16. PROJECT DURATION 12 Months			
c. STATE 102,167.00		18. DATE DUE TO FEDERAL AGENCY Year month day 19 84 4 30		17. TYPE OF CHANGE (For 14c or 14e) A-Increase Dollars B-Decrease Dollars C-Increase Duration D-Decrease Duration E-Cancellation Enter appropriate letter(s) <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> C			
d. LOCAL .00							
e. OTHER * 11,000.00							
f. Total \$ 258,167.00							
19. FEDERAL AGENCY TO RECEIVE REQUEST Department of Energy, Kansas City, MO 64106		20. EXISTING FEDERAL GRANT IDENTIFICATION NUMBER DE-FG47-80CS69097				21. REMARKS ADDED <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
a. ORGANIZATIONAL UNIT (IF APPROPRIATE) Kansas City Support Office		b. ADMINISTRATIVE CONTACT (IF KNOWN) Ronald J. Brown, Director					
c. ADDRESS 324 E. 11th Street Kansas City, Missouri 64106							
22. THE APPLICANT CERTIFIES THAT To the best of my knowledge and belief, data in this preapplication/application are true and correct, the document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached assurances if the assistance is approved.		a. YES, THIS NOTICE OF INTENT/PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE May 15, 1985 Office for Planning and Programming 523 E. 12th Street Des Moines, IA 50319				b. NO, PROGRAM IS NOT COVERED BY E.O. 12372 OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW <input type="checkbox"/>	
23. CERTIFYING REPRESENTATIVE a. TYPED NAME AND TITLE Iowa Energy Policy Council Robert F. Tyson		b. SIGNATURE 					
24. APPLICATION RECEIVED 19		25. FEDERAL APPLICATION IDENTIFICATION NUMBER		26. FEDERAL GRANT IDENTIFICATION			
27. ACTION TAKEN <input type="checkbox"/> a. AWARDED <input type="checkbox"/> b. REJECTED <input type="checkbox"/> c. RETURNED FOR AMENDMENT <input type="checkbox"/> d. RETURNED FOR E.O. 12372 SUBMISSION BY APPLICANT TO STATE <input type="checkbox"/> e. DEFERRED <input type="checkbox"/> f. WITHDRAWN		28. FUNDING		29. ACTION DATE 19		30. STARTING DATE 19	
		a. FEDERAL \$.00		31. CONTACT FOR ADDITIONAL INFORMATION (Name and telephone number)		32. ENDING DATE 19	
		b. APPLICANT .00				33. REMARKS ADDED <input type="checkbox"/> Yes <input type="checkbox"/> No	
		c. STATE .00					
		d. LOCAL .00					
		e. OTHER .00					
		f. TOTAL \$.00					

PART II
PROJECT APPROVAL INFORMATION

OMB NO. 50-106

Item 1.
Does this assistance request require State, local, regional, or other priority rating? Yes X No
Name of Governing Body _____
Priority Rating _____

Item 2.
Does this assistance request require State, or local advisory, educational or health clearances? Yes X No
Name of Agency or Board _____
(Attach Documentation)

Item 3.
Does this assistance request require clearinghouse review in accordance with OMB Circular A-95? X Yes No
(Attach Comments)
Office of Planning and Programming

Item 4.
Does this assistance request require State, local, regional or other planning approval? Yes X No
Name of Approving Agency _____
Date _____

Item 5.
Is the proposed project covered by an approved comprehensive plan? Yes X No
Check one: State
Local
Regional
Location of Plan _____

Item 6.
Will the assistance requested serve a Federal installation? Yes X No
Name of Federal Installation _____
Federal Population benefiting from Project _____

Item 7.
Will the assistance requested be on Federal land or installation? Yes X No
Name of Federal Installation _____
Location of Federal Land _____
Percent of Project _____

Item 8.
Will the assistance requested have an impact or effect on the environment? X Yes No
See instructions for additional information to be provided.

Item 9.
Will the assistance requested cause the displacement of individuals, families, businesses, or farms? Yes X No
Number of:
Individuals _____
Families _____
Businesses _____
Farms _____

Item 10.
Is there other related assistance on this project previous, pending, or anticipated? Yes X No
See instructions for additional information to be provided.

Item 11.
Is the project in a designated flood hazard area? Yes X No
See instructions for additional information to be provided.

Application for Federal Assistance (Nonconstruction Programs)

PART I (Continued)

SECTION IV—REMARKS (Please reference the proper item number from Sections I, II or III, if applicable)

22(b) Clearinghouse Response Forthcoming

PART III - BUDGET INFORMATION						
SECTION A - BUDGET SUMMARY						
Grand Program, Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		DOE/SECP (c)	Non-DOE (d)	DOE/ EES (e)	Non-DOE (f)	Total (g)
1. EES	81.041	\$ 11,000	\$	\$ 145,000	\$ 102,167 ^{2/}	\$ 258,167
2. Sec. 155					^{3/}	
5. TOTALS		\$ 11,000	\$	\$ 145,000	\$ 102,167	\$ 258,167
SECTION B - BUDGET CATEGORIES						
6. Object Class Categories	- Grand Program, Function or Activity				Total (5)	
	(1) DOE/EES	(2) State	(3) Sec. 155	(4) All Other		
a. Energy Buster's	\$ 55,000	\$ 39,527	\$	\$	\$ 94,527	
b. Hotline	44,000	31,320			75,320	
c. Public Energy Ed.	57,000	31,320			88,320	
d.						
e.						
f.						
g.						
h.						
i.						
j.						
k. TOTALS	\$	\$	\$	\$	\$	
7. Program Income	\$ 156,000	\$ 102,167	\$	\$	\$ 258,167	

1/ Refers to the Petroleum Violation Escrow
 2/ Sum of Section B Cols. (2) State and (4) All Other
 3/ Sum of Section B Col. (3) Sec. 155.

FEDERAL ASSISTANCE BUDGET INFORMATION FORM

FORM EIA-459C
(10/80)

FORM APPROVED
OMB No. 1900-0127

1. Program/Project Identification No.	2. Program/Project Title Energy Extension Service		
3. Name and Address Iowa Energy Policy Council Capitol Complex Des Moines, IA 50319			4. Program/Project Start Date 7/1/85
			5. Completion Date 6/30/86

SECTION A - BUDGET SUMMARY

Grant Program, Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. EES		\$ 11,000	\$ ---	\$ 145,000	\$ 102,167	\$ 258,167
2.						
3.						
4.						
5. TOTALS		\$	\$	\$	\$	\$

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	- Grant Program, Function or Activity				Total (5)
	(1) Buster's	(2) Hotline	(3) Public Ed	(4)	
a. Personnel	\$ ---	\$ 41,231	\$ 14,600	\$	\$ 55,831
b. Fringe Benefits	---	7,422	2,628		10,050
c. Travel	---	2,500	5,100		7,600
d. Equipment	---	-0-	-0-		-0-
e. Supplies /Printing	---	3,167	4,709		7,876
f. Contractual	94,527	-0-	4,668		99,195
g. Construction	---	---	---		---
h. Other	---	10,500	38,651		49,151
i. Total Direct Charges	94,527	64,820	70,356		229,703
j. Indirect Charges	---	10,500	17,964		28,464
k. TOTALS	\$ 94,527	\$ 75,320	\$ 88,320	\$	\$ 258,167
7. Program Income	\$	\$	\$	\$	\$

PART V: ASSURANCES

SPECIFIC INSTRUCTIONS

This part contains the certifications required of applicants for Federal grants. The applicant shall certify in its application for, and acceptance and use of Federal funds, that it will comply with the laws and regulations governing these grant programs.

The Assurances section applies to the original application and to any subsequent modification or amendments.

The Applicant hereby assures and certifies that he will comply with the regulations, policies, guidelines, and requirements, including OMB Circular No. A-102 and FMC 74-4, as they relate to the application, acceptance and use of Federal funds for this federally assisted project.† Also the Applicant assures and certifies with respect to the grant that:

1. It possesses legal authority to apply for the grant; that a resolution, motion or similar action has been duly adopted or passed as an official act of the applicant's governing body, authorizing the filing of the application, including all understandings and assurances contained therein, and directing and authorizing the person identified as the official representative of the applicant to act in connection with the application and to provide such additional information as may be required.
2. It will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and in accordance with Title VI of that Act, no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the applicant receives Federal financial assistance and will immediately take any measures necessary to effectuate this agreement.
3. It will comply with Title VI of the Civil Rights Act of 1964 (42 USC 2000d) prohibiting employment discrimination where (1) the primary purpose of a grant is to provide employment or (2) discriminatory employment practices will result in unequal treatment of persons who are or should be benefiting from the grant-aided activity.
4. It will comply with requirements of the provisions of the Uniform Relocation Assistance and Real Property Acquisitions Act of 1970 (P.L. 91-646) which provides for fair and equitable treatment of persons displaced as a result of Federal and federally assisted programs.
5. It will comply with the provisions of the Hatch Act which limit the political activity of employees.
6. It will comply with the minimum wage and maximum hours provisions of the Federal Fair Labor Standards Act, as they apply to hospital and educational institution employees of State and local governments.
7. It will establish safeguards to prohibit employees from using their positions for a purpose that is or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business, or other ties.
8. It will give the sponsoring agency or the Comptroller General through any authorized representative the access to and the right to examine all records, books, papers, or documents related to the grant.
9. It will comply with all requirements imposed by the Federal sponsoring agency concerning special requirements of law, program requirements, and other administrative requirements.
10. It will insure that the facilities under its ownership, lease or supervision which shall be utilized in the accomplishment of the project are not listed on the Environmental Protection Agency's (EPA) list of Violation Facilities and that it will notify the Federal grantor agency of the receipt of any communication from the Director of the EPA Office of Federal Activities indicating that a facility to be used in the project is under consideration for listing by the EPA.

† The regulation which we wish to bring to your attention is 10CFR 455.

PART V: ASSURANCES Con't.

11. It will comply with the flood insurance purchase requirements of Section 102 (a) of the Flood Disaster Protection Act of 1973, Public Law 93-234, 87 Stat. 975, approved December 31, 1976. Section 102 (a) requires, on and after March 2, 1975, the purchase of flood insurance in communities where such insurance is available as a condition for the receipt of any Federal financial assistance for construction or acquisition purposes for use in any area that has been identified by the Secretary of the Department of Housing and Urban Development as an area having special flood hazards. The phrase "Federal financial assistance" includes any form of loan, grant, guaranty, insurance payment, rebate, subsidy, disaster assistance loan or grant, or any other form of direct or indirect Federal assistance.

12. It will assist the Federal grantor agency in its compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (16 U.S.C. 470), Executive Order 11593, and the Archeological and Historic Preservation Act of 1966 (16 U.S.C. 469a-1 et seq.) by (a) consulting with the State Historic Preservation Officer on the conduct of investigations, as necessary, to identify properties listed in or eligible for inclusion in the National Register of Historic Places that are subject to adverse effects (see 36CFR Part 800.8) by the activity, and notifying the Federal grantor agency of the existence of any such properties, and by (b) complying with all requirements established by the Federal grantor agency to avoid or mitigate adverse effects upon such properties.

Application for Federal Assistance (Nonconstruction Programs)

U.S. Department of Energy

Assurance of Compliance

Nondiscrimination in Federally Assisted Programs

State of Iowa (Hereinafter called the "Applicant") HEREBY AGREES to comply with Title VI of the Civil Rights Act of 1964 (Pub. L. 88-352), Section 16 of the Federal Energy Administration Act of 1974 (Pub. L. 93-275), Section 401 of the Energy Reorganization Act of 1974 (Pub. L. 93-438), Title IX of the Education Amendments of 1972, as amended, (Pub. L. 92-318, Pub. L. 93-568, and Pub. L. 94-482), Section 504 of the Rehabilitation Act of 1973 (Pub. L. 93-112), the Age Discrimination Act of 1975 (Pub. L. 94-135), Title VIII of the Civil Rights Act of 1968 (Pub. L. 90-284), the Department of Energy Organization Act of 1977 (Pub. L. 95-91), and the Energy Conservation and Production Act of 1976, as amended, (Pub. L. 94-385). In accordance with the above laws and regulations issued pursuant thereto, the Applicant agrees to assure that no person in the United States shall, on the ground of race, color, national origin, sex, age, or handicap, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity in which the Applicant receives Federal assistance from the Department of Energy.

**Applicability and
Period of Obligation**

In the case of any service, financial aid, covered employment, equipment, property, or structure provided, leased, or improved with Federal assistance extended to the Applicant by the Department of Energy, this assurance obligates the Applicant for the period during which Federal assistance is extended. In the case of any transfer of such service, financial aid, equipment, property, or structure, this assurance obligates the transferee for the period during which Federal assistance is extended. If any personal property is so provided, this assurance obligates the Applicant for the period during which it retains ownership or possession of the property. In all other cases, this assurance obligates the Applicant for the period during which the Federal assistance is extended to the Applicant by the Department of Energy.

Employment Practices

Where a primary objective of the Federal assistance is to provide employment or where the Applicant's employment practices affect the delivery of services in programs or activities resulting from Federal assistance extended by the Department, the Applicant agrees not to discriminate on the ground of race, color, national origin, sex, age, or handicap, in its employment practices. Such employment practices may include, but are not limited to, recruitment, recruitment advertising, hiring, layoff or termination, promotion, demotion, transfer, rates of pay, training and participation in upward mobility programs, or other forms of compensation and use of facilities.

Subrecipient Assurance

The Applicant shall require any individual, organization, or other entity with whom it subcontracts, subgrants, or subleases for the purpose of providing any service, financial aid, equipment, property, or structure to comply with laws cited above. To this end, the subrecipient shall be required to sign a written assurance form, however, the obligation of both recipient and subrecipient to ensure compliance is not relieved by the collection or submission of written assurance forms.

**Data Collection and
Access to Records**

The Applicant agrees to compile and maintain information pertaining to programs or activities developed as a result of the Applicant's receipt of Federal assistance from the Department of Energy. Such information shall include, but is not limited to, the following: (1) the manner in which services are or will be provided and related data necessary for determining whether

any persons are or will be denied such services on the basis of prohibited discrimination; (2) the population eligible to be served by race, color, national origin, sex, age and handicap; (3) data regarding covered employment including use or planned use of bilingual public contact employees serving beneficiaries of the program where necessary to permit effective participation by beneficiaries unable to speak or understand English; (4) the location of existing or proposed facilities connected with the program and related information adequate for determining whether the location has or will have the effect of unnecessarily denying access to any person on the basis of prohibited discrimination; (5) the present or proposed membership by race, color, national origin, sex, age and handicap, in any planning or advisory body which is an integral part of the program; and (6) any additional written data determined by the Department of Energy to be relevant to its obligation to assure compliance by recipients with laws cited in the first paragraph of this assurance.

The Applicant agrees to submit requested data to the Department of Energy regarding programs and activities developed by the Applicant from the use of Federal assistance funds extended by the Department of Energy. Facilities of the Applicant (including the physical plants, buildings, or other structures) and all records, books, accounts, and other sources of information pertinent to the Applicant's compliance with the civil rights laws shall be made available for inspection during normal business hours on request of an officer or employee of the Department of Energy specifically authorized to make such inspections. Instructions in this regard will be provided by the Director, Office of Equal Opportunity, U.S. Department of Energy.

This assurance is given in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts (excluding procurement contracts), property, discounts or other Federal assistance extended after the date here to, to the Applicant by the Department of Energy, including installment payments on account after such date of application for Federal assistance which are approved before such date. The Applicant recognizes and agrees that such Federal assistance will be extended in reliance upon the representations and agreements made in this assurance and that the United States shall have the right to seek judicial enforcement of this assurance. This assurance is binding on the Applicant, its successors, transferees, and assignees, as well as the person whose signature appears below and who is authorized to sign this assurance on behalf of the Applicant.

4/30/85

(Date)

State of Iowa

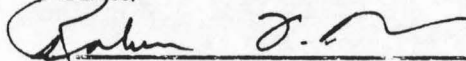
(Name of Applicant)

Iowa Energy Policy Council

Lucas State Office Building

Des Moines, IA 50319

(Address)



(Authorized Official) Director

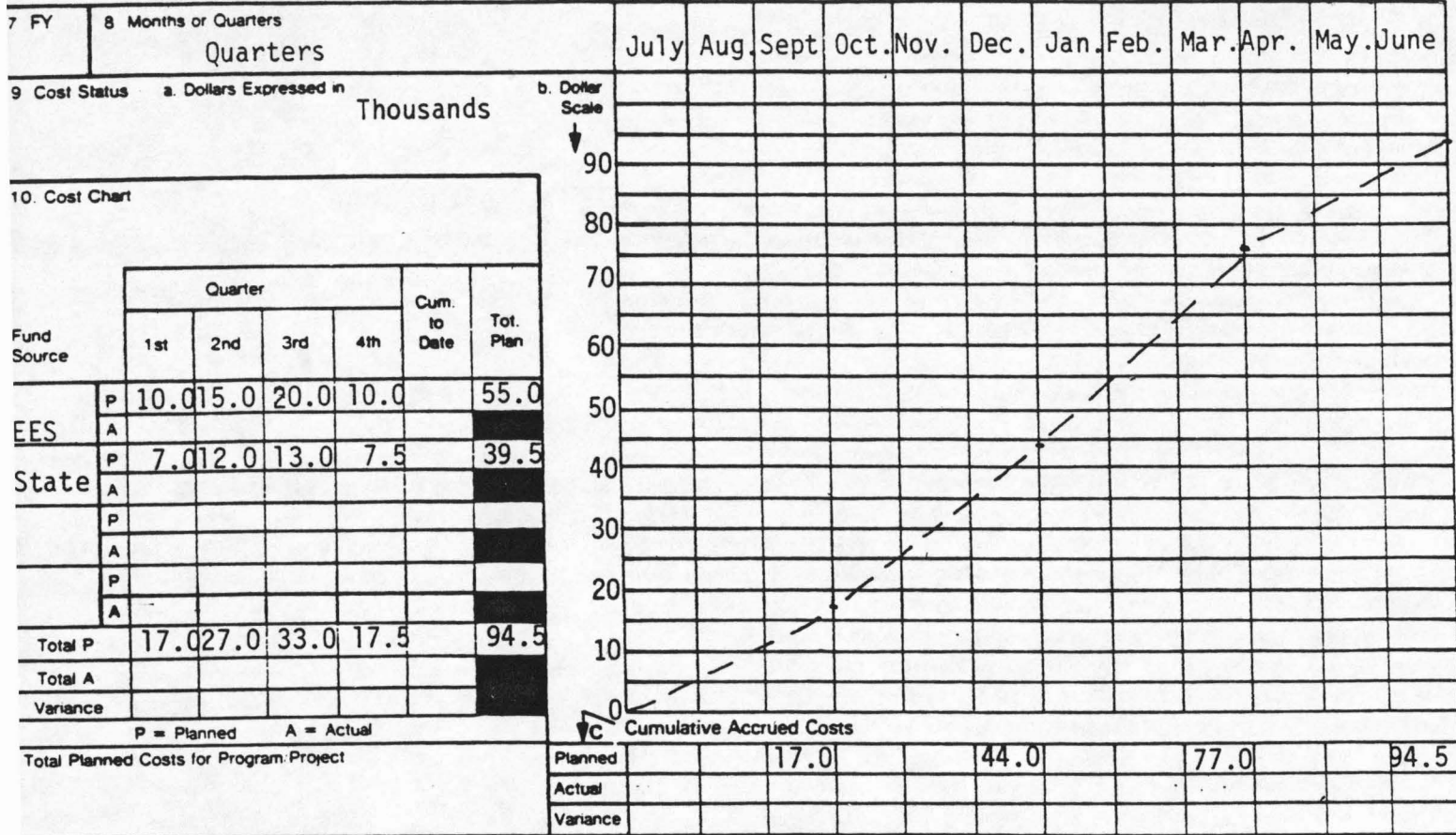
515) 281-4420

(Applicant's Telephone Number)

PART B

**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

1. Program/Project Identification No. 1	2. Program/Project Title Energy Buster's	3. Reporting Period _____ through _____
4. Name and Address Iowa Energy Policy Council Capitol Complex Des Moines, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986



11 Major Milestone Status	P	
	C	
Select Staff	P 1.75FTE	▲
	C	
Individual Consultations	P 400	▲
	C	
Conduct Workshops/Demonstrations	P 20	▲
	C	
Quarterly Solar Measurements	P 4	▲
	C	
Community Energy Projects	P 3	▲
	C	
Quarterly Report	P 4	▲
	C	
Evaluation of Program	P 1	▲
	C	
	P	
	C	

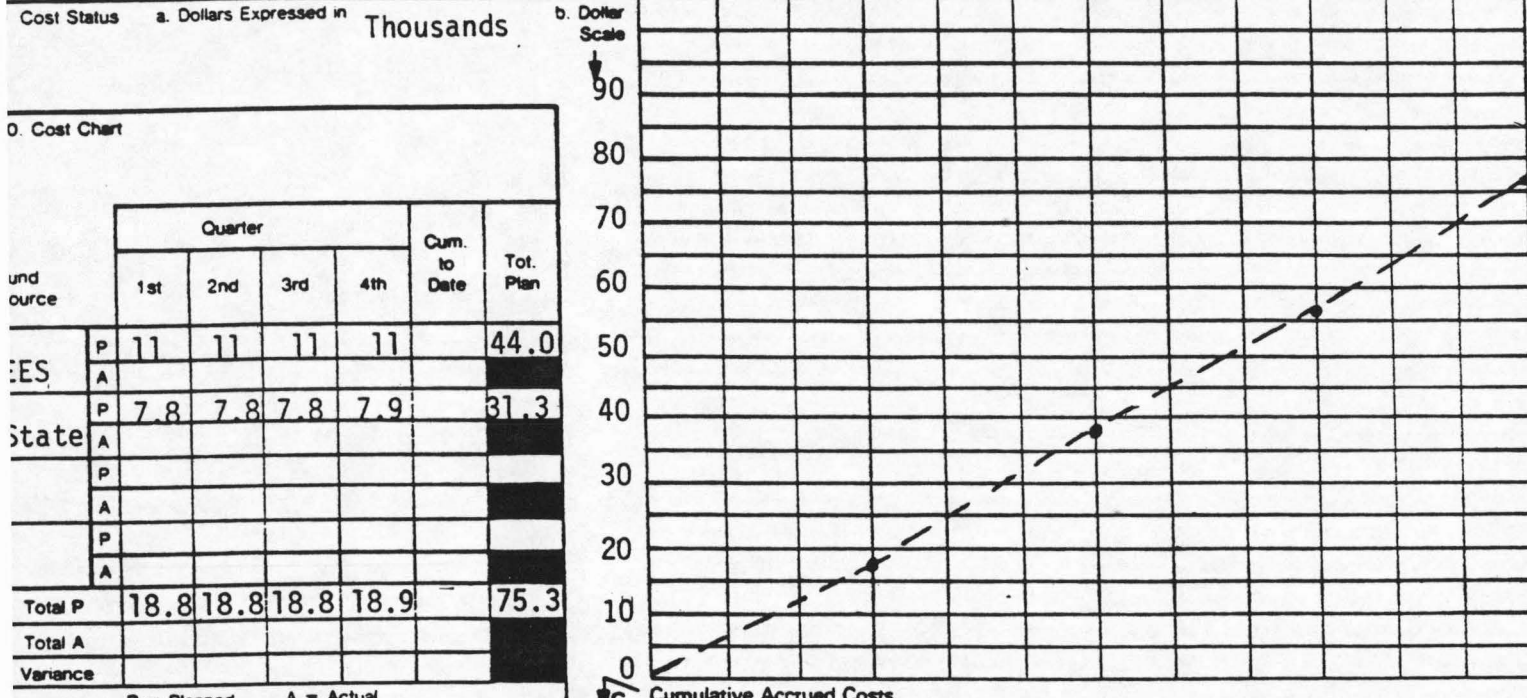
12. Remarks

13. Signature of Recipient and Date <i>K. Bah</i> 8 May 85	14. Signature of DOE Reviewing Representative and Date _____ 54
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**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

1. Program/Project Identification No. <p align="center">2</p>	2. Program/Project Title <p align="center">Hotline</p>	3. Reporting Period _____ through _____
Name and Address Iowa Energy Policy Council Lucas State Office Building Capitol Complex Des Moines, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986

FY 85	8 Months or Quarters Quarters	Jul.	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
-----------------	---	------	------	------	------	------	------	------	------	------	------	-----	------



Total Planned Costs for Program/Project	Planned		18.8		37.6		56.4		75.3
	Actual								
	Variance								

11. Major Milestone Status	P 2 FTE	
Select Staff	C	△
Respond to Inquires	P 6,600	
	C	△
Develop/distribute Publications	P 6	
	C	△
Outreach Promotion	P 6	
	C	△
Quarterly Reports	P 4	
	C	△
Evaluation of Program	P 4	
	C	△
	P	
	C	
	P	
	C	
	P	
	C	

2. Remarks

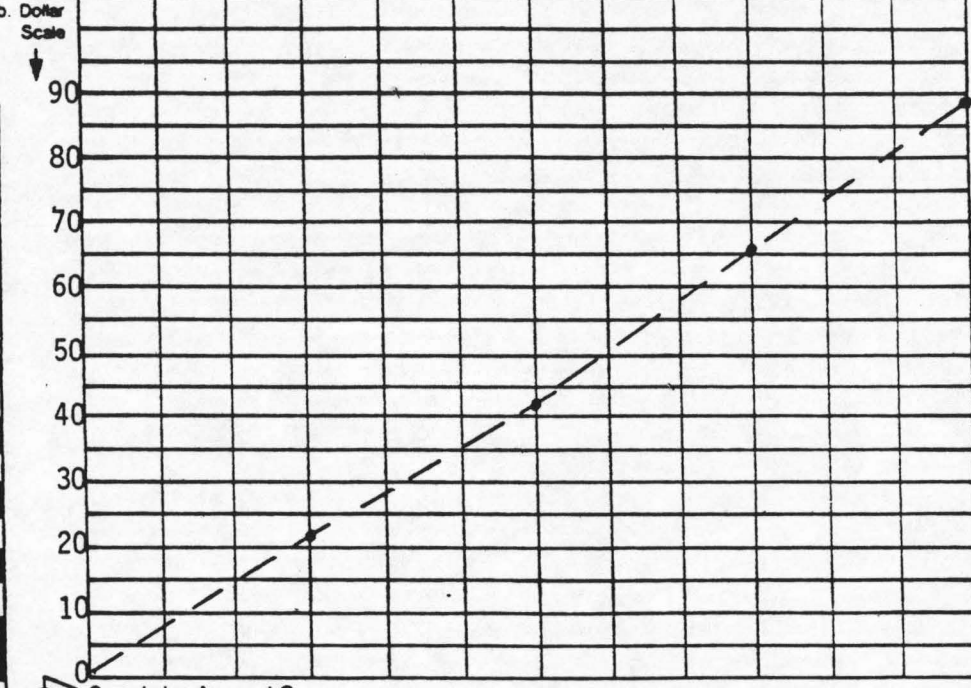
13. Signature of Recipient and Date <i>Dennis Guffey</i> 5-15-85	14. Signature of DOE Reviewing Representative and Date _____ 55
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**U.S. DEPARTMENT OF ENERGY
FEDERAL ASSISTANCE MANAGEMENT SUMMARY REPORT**

Program/Project Identification No. 3	2. Program/Project Title Public Energy Education	3. Reporting Period _____ through _____
1. Name and Address Iowa Energy Policy Council Lucas State Office Building Capitol Complex Des Moines, IA 50319		5. Program/Project Start Date July 1, 1985
		6. Completion Date June 30, 1986

FY 85	8 Months or Quarters Quarters	Jul	Aug	Sept	Oct	Nov.	Dec	Jan	Feb.	Mar.	Apr	May	June
--------------	---	-----	-----	------	-----	------	-----	-----	------	------	-----	-----	------

3. Cost Status a. Dollars Expressed in **Thousands**



0. Cost Chart

Fund Source		Quarter				Cum. to Date	Tot. Plan
		1st	2nd	3rd	4th		
EES	P	14.0	14.0	14.0	15.0		57.0
	A						
State	P	7.8	7.8	7.8	7.9		31.3
	A						
	P						
	A						
	P						
	A						
Total P		21.8	21.8	21.8	22.9		88.3
Total A							
Variance							

P = Planned A = Actual

Total Planned Costs for Program/Project	Planned			21.8			43.6		65.4			88.3
	Actual											
	Variance											

11 Major Milestone Status	P								
Select Staff		C							Δ
Develop/distribute bulletin	P 6(18,000)								Δ
Implement Speaker's Bureau	P 100								Δ
Intergovernmental Meetings	P 10								Δ
Print Resource Material	P 5								Δ
Energy Education Conference	P 1								Δ
Quarterly Reports	P 4								Δ
Evaluation of Program	P 1								Δ
	P								
	C								

12. Remarks

13. Signature of Recipient and Date <i>Dennis Gaffney</i> 5-15-85	14. Signature of DOE Reviewing Representative and Date 56
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Abbreviations

EES	Energy Extension Service (national program)
IEES	Iowa Energy Extension Service
IEPC	Iowa Energy Policy Council
ISU	Iowa State University
CES	Cooperative Extension Service
SECP	State Energy Conservation Plan
AEA	Area Education Agency
SSO	State Solar Office
DOE	Department of Energy
ICP	Institutional Conservation Plan
DPI	Department of Public Instruction

Part C. Use of Financial Assistance

The State Plan was developed by IEPC and IEES staff which assures that funds do not supplant expenditure of State or Federal funds for the same purpose. Coordination with the Dean of Extension at ISU has helped assure again the prevention of overlap of State, Federal and local funds and maximizes the use of these funds.

Furthermore, clearance for the project has been received through the completed A-95 form, issued by the Office for Planning and Programming, the agency which coordinates federal monies in the state.

Part D. Comment Process Description

Initially, a 25-member Advisory Council was established early in the IEES planning period to assure the public and organizations an opportunity to participate in the making of the IEES Plan.

In the fall of 1980, Energy Policy Council was designated as the public input group to replace the Advisory Council. The Council is made up of energy users, energy producers, legislators, college representatives and members of the general public. The Council reviewed and approved the revisions of this year's plans. In addition, a public forum at our Council meetings enabled the general public to comment on this year's plan. Council membership is shown in Exhibit C.

Part E. Environmental Impact Description

The State of Iowa has not planned any actual demonstration involving building modification in its IEES Plan.

PART F

Part F. The State Plan

SECTION I
IEES OBJECTIVES

This section describes the objectives to be accomplished by the State Plan over the next year. It contains a statement of the objectives of the Plan and a "strategy level" discussion for achieving objectives. It also discusses how Federal statutory requirements for the Plan will be met and how other Iowa energy conservation activities will be coordinated with IEES Plan.

A. Objectives

The overall objectives of the IEES Plan are to (1) provide positive outreach programs that increase the capability of small energy users to make informed energy choices, and (2) provide services that complement rather than duplicate existing energy conservation efforts in the state.

Input from the IEES staff, the IEPC staff and the program managers was used to develop the following specific objectives:

1. The Energy Extension Service (EES) will develop and conduct 20 energy workshops around the state of Iowa by June 30, 1986. These workshops will consist of, but not be limited to, homeowner retrofit options, blower door demonstrations, and home heating index (HHI) information.
2. The Energy Hotline staff shall record and respond to 6,600 Hotline inquiries by June 30, 1986.
3. The Energy Hotline staff shall complete and distribute six energy consumer publications by June 30, 1986.
4. The Energy Hotline staff shall distribute energy consumer information at six energy events attended by at least 500 Iowans including at least four home shows by June 30, 1986.

5. The Public Energy Education staff shall develop, print, and distribute on dates prescribed by June 30, 1985 six Iowa Energy Policy Council Bulletins reaching 3,000 with each issue by June 30, 1986.
6. The Energy Policy Council staff shall make 100 presentations on energy topics to interested groups and organizations (total 8,000) throughout the state of Iowa by June 30, 1986.
7. The Public Energy Education staff shall develop, print, and distribute five energy resource publications by June 30, 1986. Three of these publications shall include the Energy Policy Council Annual Report, the 6th Annual Iowa Energy Education Conference brochure; and the Third Annual Community Energy Conference brochure.
8. The Public Energy Education staff in cooperation with the Iowa Department of Public Instruction and the National Energy Foundation shall plan and conduct the 6th Annual Iowa Energy Education Conference by March 30, 1986. The conference will include a minimum of 25 concurrent energy education sessions, 20 energy exhibitors, and three keynote speakers.

The objectives chosen reflect likely high yield for EES dollars because (1) most objectives are relying solidly on existing staff, materials and expertise; (2) most objectives are designed to reach a maximum number of persons either directly through participating or indirectly through publicity; (3) all objectives were chosen as the result of needs ascertained by either public response or advice of taskforces in target audience areas.

B. State Program Strategy (Refer to Exhibits A and B)

An overview of each program describing the target audience, the conservation techniques and technologies to be addressed, and the services to be provided appears in Section II.

The state programs together represent an effective design for achieving the objectives and reflect the following factors and resultant strategy:

- o EES programs should target audiences where not only the greatest potential exists for energy savings, but also where previous programming is lacking or insufficient. For these reasons Iowa has chosen to program to two target audiences - the general public and influencing groups.
- o EES programs should complement existing conservation efforts and resources. The Iowa EES Plan is carefully designed to fill gaps, in the SECP and to supplement and extend existing activities. The IEES will act as a catalyst particularly to the field staff of CES with the capability of extending services to all 99 Iowa counties utilizing existing staff. The IEES will use its publicity potential to advertise other private and public conservation programs within the state, rather than just IEES planned programs.
- o EES dollars should be maximized to serve the largest number of persons possible. All three of Iowa's EES programs are designed to be available to the entire state.
- o EES dollars should be directed toward an effort to establish self-sustaining outreach programs. The programs have as implicit goals, the "seeding" of needed activities that will be sustained and supported by those that stand to reap the direct benefits of the programs or those who have as a defined responsibility, the delivery of these programs.
- o Acceptance of energy conservation techniques requires a process of exposure over a long timeframe. Most programs are designed to be carried out on a continuous or extended basis, giving optimum opportunity for publicity and reinforcement.

- o Energy conservation programs will be more successful if a wide spectrum of support exists. Many programs incorporate taskforces from interest groups related to the specific programs in an effort to identify needs, maximize support and have programs become a common thrust instead of being foisted on the target audience.
- o Audiences tend to not come to strictly energy-related events. Programs whenever possible are designed to "catch" people where they already are - at organizational meetings or watching or listening to the media.

C. Supplementing and Coordinating with Other Conservation Activities

IEES is located at Iowa State University (ISU) in order to assure coordination with planned and existing programs at ISU. The IEES administrative staff will interrelate with appropriate personnel on the ISU campus, IEPC staff and other persons or groups throughout the state to assure coordination of all state conservation activities. Periodic meetings already take place and will continue between IEES administration staff, the ISU Extension Energy committee, and IEPC staff to assure this coordination. Particular efforts will continue to be made to prevent duplication of services and publications.

D. Overview of Certain Statutory Requirements

Existing organizations that will be used in all aspects of the State Plan. The IEPC has overall responsibility for the State Plan as well as oversight of Programs 2 and 3. The administration for IEES Program 1 will be from ISU Extension of Iowa State University. This allows access and coordination capability to all the ISU implementors and includes the CES with its outreach capability throughout the state. The ISU Extension Energy committee comprised of ISU Extension staff will continue to function in order to facilitate coordination. ISU Extension is well known for its capability in the administration and implementation of programs and for its technical support base, all of which will be heavily relied on for IEES programming.

All of the existing organizations involved in the Plan whether in administration, implementation or technical support, are providing numerous inkind, uncalculated resources. All have been most eager to offer these resources of personnel, supplies, equipment and space in order to maximize service delivery of programs and minimize overhead expenses.

SECTION II

STATE PROGRAMS

This section gives support information for all three programs including a description of the target audience, the services to be offered, technical support, and organizational responsibilities. Other information on programs appears in Exhibit A.

Program # 1: Energy Busters

Description

The IEES program consists of two parts: presentation of energy outreach workshops and support for the EPC's Community Energy Program.

The theme "Energy Busters" will be used to increase the visibility of many of the energy workshops. The program will include the use of an Energy Buster logo. The logo will be included on the hands-on display boards, on promotional mailings and on a number of other items such as; magnetic signs on the sides of a pick-up truck, window decals and pin-on badges. The IEES will provide the CES field staff with promotional materials developed around the logo.

Airtightening a house is one of the most cost effective energy measures, so Energy Busters will concentrate on demonstrating hands-on strategies to minimize air infiltration. Many of the activities will be structured around a "Blower Door House Party", where host families invite of energy friends and neighbors into their homes. The "Party" starts with a discussion of energy conserving measures that homeowners can use. While a great deal of the discussion will cover air leakage, the homeowners will be made aware of their homes as interactive systems. The relationship between insulation, air leakage, moisture and indoor contaminants will be stressed. Samples of various weatherstripping materials will be passed around for each person to examine and the display board will have examples of how they are used. The next topic will be caulks and the many different types will be discussed and displayed. Each person will have an opportunity to practice running a bead of caulk. They can try both the pull and push methods of applying a bead.

After everyone has an opportunity to see the materials and how they are applied, the blower door will be turned on. Using either their hands or smoke sticks, each person will track down as many leakage paths as they can. The people will be told to keep in mind where the leaks are located and which items might be used to stop the leakage, so they can work on their own homes later. The number of people at each session will be kept small

in order to take advantage of this unique teaching opportunity. These workshops are very interactive and the potential for follow-up is large.

The IEES staff will also conduct workshops and seminars in other conservation techniques, alternative energy sources, passive solar buildings and air infiltration for builders.

The IEES staff will work with the EPC staff in their Community Energy Development Program to provide workshops on using the Home Heating Index (HHI) and conservation workshops using the blower door. The IEES staff will assist the EPC with their superinsulation retrofits in each of these towns.

The IEES staff will conduct 20 workshops/demonstrations in the two parts of the program, develop the Energy Buster promotional materials, support the EPC in their Community Energy program and provide individual assistance to 40 people.

A. Target Audience

Homeowners, builders, designers, realtors and lumberyard workers.

- o Size: Approximately 70% of the state's households, or 630,000 homes are privately owned.
- o Number to be Reached: 700 directly; 40,000 homes indirectly through newsreleases, TV/radio spots and publications.

B. Services to be Offered

Incentive and information materials; technical assistance via workshops and seminars, publicity, publications and one-on-one assistance.

- o How Services Will Meet Needs: Significant energy savings are available through conservation actions in existing buildings. This program addresses a major audience - those who live in existing homes. The program also helps prepare those same homeowners for solar additions and energy efficient remodeling, while emphasizing caulking and weatherstripping first.
- o Audits: No audits.
- o Geographical Area: Statewide.

C. Techniques and Technologies to be Addressed

Weatherization, air infiltration, storm windows, weatherstripping, insulation and similar conservation techniques for heating and cooling homes; passive solar retrofit techniques including direct gain, thermal storage wall and sunspace; solar water heating.

D. Technical Support

Types of technical support includes instruction by Iowa State University Energy Extension staff; information dissemination through materials developed by IEES, ISU, state and federal agencies and other education institutions; one-on-one assistance by IEES staff; and demonstrations of air infiltration and other conservation measures.

- o Why needed: Homeowners lack credible information to make changes to their homes for either conservation or solar retrofits.
- o Organization providing technical support: The resources at ISU will be the primary support, including EES technical staff.

E. Organization Responsibilities

- o Implementor: Engineering Extension Service, Iowa State University, Ames, Iowa 50011.
- o Responsibilities: Plan, organize, administer and evaluate the program in keeping with established EES and ISU requirements for administration, accounting and reporting.
- o Background and rationale: Engineering Extension Service is the parent organization for the Iowa Energy Extension Service which is the primary group designated to carry out this program.
- o Level of effort: The equivalent of 1.75 full-time staff will carry out the program.

Program #2: Energy Hotline

Description

The Iowa Energy Policy Hotline provides toll-free incoming telephone service to all Iowans who are searching for answers to questions regarding energy conservation and renewable fuels. The Hotline (1) maintains a library of reference documents, (2) an inventory of consumer literature, (3) provides a bibliography of materials, information and other energy information resources, (4) retains a current list of energy events and meetings, (5) supports a group of energy technicians and advisors, and (6) maintains contacts with other reliable information sources.

The Hotline provides consistent and reliable answers to all energy conservation questions. It is a comprehensive energy education and information service that is available without fee to all citizens of Iowa.

Our toll-free number will be utilized for all energy-related inquiries, but this IEES program will provide support and information only in the areas of conservation and renewable energy sources. Existing IEPC staff will continue to address questions on fuel allocations, coal mining, electrical generation and non-renewable fuel sources.

A. Target Audience

The target audience represents the public and private groups seeking specific rather than general answers to questions regarding conservation and solar technologies. This audience is already demonstrating its interest since the existing IEES Hotline service is responding to over 400 requests per month.

Size: A composite representing the 899,000 households, 123,000 farms, and 88,000 small businesses and the needs of designers, builders and educators throughout the state.

Number to be Reached: 450 per month, 6,600 total; reach 100,000 through publicity.

B. Services to be Offered

Information dissemination through telephone responses, correspondence, publications.

- o How Services will Meet Needs: The public asking for precise and up-to-date information that is appropriate for Iowans. The service will fill this need in an expeditious manner.

- o Audits: No audits.
- o Geographical Area: Statewide with a 1-800 access number.

C. Techniques and Technologies to be Addressed

Will be able to respond to all techniques and technologies described for all other programs.

D. Technical Support

- o Type of Technical Support: Information dissemination will utilize the technical support already available in the IEES as well as the services of a public information person and the existing bank of support at the universities around the state, especially that at ISU.
- o Why Needed: Technical support is required to give the necessary credence, specialization, sophistication required.
- o Organization Providing: IEES and IEPC staff and the support services of SSO, ISU and other universities.

E. Organizational Responsibilities

- o Implementor: The Iowa Energy Policy Council.
- o Responsibilities: The IEPC will select the personnel and be responsible for financial accountability. The IEPC will house the program and manage it on a day-to-day basis. The IEPC program manager will supervise the program staff, oversee the development and organization of materials on conservation and renewable energy sources into retrievable data bank, develop the telephone responses, develop auxiliary materials in cooperation with IEES administrative staff, and generally administer the service including the evaluation and reporting requirements.
- o Background and Rationale: The IEPC has an established Hotline service and houses numerous resource materials because of its relationship with state solar office activities. IEPC being a state agency is a logical one to manage a statewide service.
- o Level of Effort: Two full-time energy information specialists will carry out all activities necessary to meet the state's growing demand for energy information. In addition, IEES and IEPC staff will be available to assist the Hotline program. Staff will also include a 1/4-time secretary.

Program #3: Public Energy Education

Description

The Public Energy Education Program is designed to serve the following functions: (1) to develop and distribute a monthly Energy Bulletin to 3,000 Iowans; (2) to organize and implement a Speaker's Bureau on energy matters for requests from groups and organizations; (3) to serve as a coordinating body for the dissemination of energy information on conservation and renewable energy sources to state agencies that have either a direct responsibility or interest in this area; (4) and to provide promotional efforts via press releases, PSA's, radio and television coverage on conservation and renewable sources of energy; (5) to hold the Sixth Annual Iowa Energy Education Conference.

A. Target Audience

The target audience will be the general public of Iowa and officials of state government.

Size: This program is designed to reach all energy consuming sectors in the state of Iowa.

Number to be Reached: 3,000 bimonthly, 18,000 total and 1,000,000 through promotional and speaking efforts.

B. Services to be Offered

Energy information through the release of a bi-monthly Energy Bulletin, press releases, PSA's and other media. Speakers for energy functions requested by groups and organizations. Intergovernmental cooperation between state agencies on energy matters. Energy Education Conference for teachers and administrators.

- o How Services Will Meet Needs: To achieve the objective of creating an energy literate public on conservation and renewable energy resources.
- o Audits: No audits.
- o Geographical Area: Statewide effort.

C. Techniques and Technologies to be Addressed

All energy technologies that are relevant to the Iowa EES program. Proper energy management techniques will also be emphasized.

D. Technical Support

- o Type of Technical Support: The primary technical support will come from staff members of the IEPC and members of the Council.
- o Why Needed: This support is absolutely necessary in providing Iowans with current and accurate public energy education.
- o Organization Providing: IEPC staff and the support services of colleges and universities and knowledgeable and informed people in energy.

E. Organizational Responsibilities

- o Implementor: The Iowa Energy Policy Council.
- o Responsibilities: IEPC staff will be assigned to develop and distribute a bimonthly Energy Bulletin, meet when needed with state energy officials on energy matters affecting the state of Iowa, fulfill requests for public speaking engagements around the state and provide technical assistance on energy management opportunities in the state.
- o Background and Rationale: The Iowa Energy Policy Council was formed to coordinate all of Iowa's energy programs and efforts. This program will serve this coordination throughout the state.
- o Level of Effort: Seven IEPC staff will be involved in implementing this program along with clerical assistance and resources from the IEPC office.

Section III

IEES ADMINISTERING ORGANIZATION

This section of the Plan describes the administering organization that will be responsible for the overall implementation and management of Iowa's EES Plan. It also examines the provisions made for coordination and the relationship between the administering organization and the grantee.

A. Administering Organization

The Iowa Energy Policy Council has overall responsibility for the State Plan as well as oversight of Programs 2 and 3.

The ISU Extension is a logical choice of the IEPC as administering organization for Program 1 because of its in-place delivery system operating throughout the state, its history of cooperation with off-campus groups, its demonstrated ability to interact with the whole gamut of small energy users, and its obvious experience in managing outreach programs.

The IEES administrative and support staff will be located within Engineering Extension. An important IEPC consideration is the relative ease with which Engineering Extension can use technical experts from the academic departments on campus including the Center for Industrial Research and Service. Engineering Extension has also built a communication link with the staff at the IEPC, and other groups off-campus.

The IEPC believes that ISU Extension has an excellent in-service program and a dedication to maintaining a professional staff. The IEES staff will be involved in the extension in-service program both as participants and resource persons. In fact, one of the long-range benefits of having the IEES is the opportunity for county extension staff to become more knowledgeable in energy matters. This helps to make more information available at the local level.

The IEES administration will be responsible for monitoring the ISU program within the State Plan, making sure the program is proceeding in a timely manner, budgets are being adhered to and information is available for the quarterly reports. The grantee, the IEPC, has ultimate responsibility for this information so it will be reported to DOE by the IEPC.

Within ISU Engineering Extension Service the administrative staff for IEES will consist of the director. The director will spend one-fourth time with the IEES and will continue working in Engineering Extension the other one-half time. The program coordinator will be a member of the IEPC staff. The program coordinator will provide coordination and implementation of the Iowa EES Plan, working with individual program leaders; will supervise budgeting, accounting, procurement, contracts and compliance with federal grant requirements; will work with the IEES director in developing annual work programs, preparing special reports and studies and coordinating the IEES program with other energy activities in Iowa; will coordinate evaluation of IEES program; will help identify and communicate the barriers to energy conservation; will serve as a public relations representative for IEES; and will counsel and provide technical information to individual citizens.

A great deal of authority will be delegated to the ISU program manager while the IEES administration provides support and coordination. This same authority will be delegated to the IEPC program managers.

The IEPC will monitor the total EES project and approve any requested changes in the scope of work or budget during the course of this project. IEPC staff will be assigned as program managers of two of the programs (Hotline and Public Energy Education) and will work with the IEES administration and program managers in coordinating and evaluating the total Iowa EES program.

B. Coordination Procedures

Iowa has chosen the approach where program managers have a great deal of authority over the operation of their programs, but where the administering organization will be included in an advisory and monitoring role. Since the programs were written either directly by the administering organization or in consultation with implementing organizations, coordination techniques have already been established and practiced. The specific responsibilities of the implementors will be made clear through a contract with the Engineering Extension Service. The role of the administrative organization will be defined through memorandums of understanding to all implementors and through orientation

sessions and meetings with all program managers. Regular meetings will take place between IEES and IEPC administrative staff.

C. Relationship to Grantee

This relationship between the IEES at ISU and the grantee, IEPC, will be defined by the IEES director and the conservation director of the IEPC staff. The IEES at ISU will work with one contact person at the EPC. Memos of understanding will be issued from either party as conditions require. Joint planning sessions have already been held, with regular anticipated monthly after implementation.

SECTION IV

BARRIERS TO ENERGY CONSERVATION

Active listening and reporting on the part of IEES and IEPC staff, implementing groups and technical support personnel coupled with a discussion of barriers in each program's evaluation process will serve as the primary methods of barrier identification.

IEES and IEPC staff will carry the prime responsibility for communicating directly with those who have the capability or authority to remove or influence the barriers identified. Target audiences will be updated on progress in breaking down barriers through the established energy publications of the state and through news and electronic media.

SECTION V

ADMINISTRATIVE PROCEDURES

This section describes three administrative functions required in the State Plan; responding to public suggestions and inquiries, publicizing services and reviewing for technical accuracy.

Responding to Public Suggestions and Inquiries

Public suggestions for improvement of IEES programs at ISU will come from CES central and field staff, responses from the IEPC Hotline and other EES programs, from IEPC staff, and directly from the public. These suggestions will be discussed by IEES administrative staff with the appropriate persons, such as program managers, IEPC staff or the ISU Extension Energy Committee. IEES and IEPC administrative staff will evaluate responses from both field staff and individuals to best determine prompt and practical improvements to IEES services.

Public inquiries will also be met in a variety of ways. Primary inquiry will be through the Hotline service. Responses will be given by specially-trained persons using responses developed cooperatively by the implementor--the IEPC, and those chosen to give technical review to IEES.

CES field staff will also play a major role in answering inquiries. This staff will be dependent on the same technical review process which will provide updated information. The CES field staff will receive in-service training, newsletters, and the opportunity for on-site help from IEES technical staff. The responsibility of delivering the above services to CES field staff will be with the IEES administration in cooperation with CES central staff.

The IEPC will continue to respond to public inquiries via the Hotline and/or the public energy education program and technical staff of the IEPC. The IEPC will refer public inquiries to IEES staff as appropriate and utilize a technical review process as needed.

Publicizing Services

Various approaches will be used to publicize the programs. An IEPC communications specialist will be a major part of EES support services with responsibility in the publicity of all programs. Extensive use will be made of media via news releases and public service announcements. Lists of persons attending past energy events and the general mailing list of 3,000 from the IEPC will be used.

Publicity will be maximized through the use of existing publications, including professional publications and use of the IEPC Energy Bulletin.

IEES will develop visibility by setting up displays at energy events and state and county fairs, either independently or as a cooperative effort with other groups. The IEPC and IEES will make an effort to advertise other groups' services and programs through support services staff.

Reviewing Publications for Technical Accuracy

A review process for technical accuracy is already implemented by ISU Extension. Although IEES will observe standing procedures at ISU, certain adaptations will be made to coordinate with implementors who are not a part of ISU, to prevent duplication of printing, to facilitate the process and to more quickly utilize new information.

The following procedures will serve as a basis for technical review for programs in the Plan:

- A. The IEES administrative staff will be responsible for coordinating the technical review process for publications arising from IEES programs.
- B. The IEPC administrative staff will be responsible for the technical review for Programs 2 and 3.
- C. The IEES and IEPC will have an informal agreement to assist each other in the review process.

SECTION VI

INDEPENDENT EVALUATION

Iowa has chosen not to use independent evaluation. Each program will carry out its own evaluation.

SECTION VII

ADDITIONAL TECHNICAL SUPPORT

This section describes technical support provided on a centralized basis.

The centralized technical support available to the IEES programs will be of two types: (1) technical persons working from the IEES central staff offices and (2) existing ISU faculty members and other resource persons available as needed. The IEPC will provide technical support for Programs 1, 2 and 3.

Technical support is necessary because of the nature of the Iowa EES programs. Most programs demand precise, detailed and tested information for the small energy user. The qualifications of ISU and the IEPC in providing the technical support service are well documented.

IEES will be most dependent on faculty members who have already developed expertise and acceptance with small energy users and who have been used extensively in previous workshops and activities.

SECTION VIII

IMPLEMENTATION OF THE STATE PLAN

A. Procedures to Achieve Timely Implementation

This subsection describes the management procedures the grantee will use after receiving the EES grant award to facilitate implementation of the State Plan on a timely basis and to take corrective actions when necessary.

- o The program managers will be responsible for retaining performance records of milestone accomplishments and budget outlays for their respective programs. The program managers will make this information available to the administering organization on a regular schedule (at least quarterly). The IEPC administrative staff will use this information to complete the DOE required forms for quarterly reports.
- o The administrative staff will have the responsibility for monitoring the programs. Monitoring will include analyzing whether milestone accomplishments and budget outlays conform to what was described in the annual state application and whether accomplishments and outlays are consistent. The monitoring process will be accomplished through observation of programs, meeting with IEES administrative staff, meeting with program managers, and required program progress reports.
- o The IEES administrative staff will meet with program managers on a regular basis to examine problems or issues affecting implementation of the State Plan. The IEES administrative staff and the program managers will work out a solution, if possible, to identified problems. The replanning or corrective action developed from these meetings will be presented to the grantee for approval. The grantee will submit to DOE any suggested corrective actions that require a revision in objectives, state program strategies, reallocation of resources or timetables.
- o The grantee will, through meetings and written instructions, familiarize the program managers with the terms of DOE's EES grant to the state and other pertinent federal requirements.

- o IEES programs at ISU will continue to operate under guidelines set forth in the manual, "Procedures and Policies for Program Managers - September 1980" and subsequent policy memos to program managers.

B. Recordkeeping Assurance

The grantee will meet with each participating organization (program implementor) to ensure that each understands the grant budget requirements and that the financial management system will provide accurate and complete records regarding the use of EES grant funds. The agreements with the participating organizations will include appropriate language to assure compliance with the requirements. Exhibit B shows the state's assurance statement.

APPENDICES

EES OBJECTIVES AND STRATEGY

<u>Target Audience</u>	<u>Program</u>	<u>Expected Impact on Knowledge</u>	<u>Expected Impact on Attitude</u>	<u>Expected Impact on Behavior</u>
Individual energy consumers	Provide telephone assistance and printed material to 6,600 persons statewide; reach 200,000 through publicity of service.	To have at least 90% of those served to show increased knowledge on the subject of inquiry.	To have at least 50% of those served to express a positive change in attitude to solar/conservation techniques.	To have at least 10% of those assisted influenced to carry out an actual change in solar/conservation.
Public Energy Education	Provide free Energy Bulletin, Speaker's Bureau and promotional efforts to groups and the general public.	To have at least 75% of those served to show increased knowledge on energy matters.	To change the attitudes of 50% due to recent and accurate energy information dissemination.	To initiate a positive behavioral change in 10% of those reached.
Energy Buster's	Provide information and technical assistance for conservation and passive solar retrofit to 2,000 persons.	To have 75% of those directly served to show increased knowledge in applying conservation techniques.	To have 50% of those served to give the intention to take action to improve home operation.	To have 2-5% of those directly served to take action to improve home operation.

EXHIBIT B

RECORD ASSURANCE

As a condition of receipt of a grant for the EES, the State hereby certifies and assures that:

The grantee will maintain or require other participating entities within the state to maintain, and make available upon request to the regional representatives such records as the Secretary may require, with respect to the use and expenditures of financial assistance provided to the grantee, or to entities within the State.

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IEES RELATIONSHIP TO OTHER FEDERALLY-FUNDED CONSERVATION ACTIVITIES

<u>Target Audience</u>	<u>EES Program</u>	<u>Non-EES Program</u>	<u>Supplementary Relationship</u>	<u>Coordination Mechanism</u>
GENERAL PUBLIC				
Energy Hotline	Provide telephone and follow-up technical assistance on conservation/solar consumer problems.	Existing State Energy Office resources.	Joint project sharing resources of IEES and EPC.	IEES personnel and EPC staff will work closely together in providing assistance to general public.
Energy Buster's	Provide technical assistance to homeowners on retrofitting their homes with conservation measures and energy alternatives.	SECP: Conservation programs for communities. EPC: Public Information Service.	Information shared between all EES, SECP and Solar Office and conservation-related programs.	Coordination and communication between EPC, EES, RCS and State Solar Office staff
Public Energy Education	Provide bi-monthly Energy Bulletin, Speaker's Bureau and intergovernmental cooperation on energy matters and requests.	ICP: Energy Management in state buildings. SECP: Related conservation programs. Weatherization: Conservation assistance.	All programs will be coordinated to share information.	Communication and meetings between managers of the different programs
INFLUENCING GROUPS				
Energy Education Conference	Annual conference for teachers and administrators celebrating natural Energy Education Day.	SECP: Related SECP programs such as Schools and Hospitals, energy education outreach, and energy management technician.	Resources & information will be share in each of the mentioned programs.	Coordination and communication between project managers of various programs.

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