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APPENDIX II. Following are the numbers of items that made up each area/component of CS I and CS II. A. Area/component of CS I. Item Numbers a. Sacrifices in leisure 1, 2, 3, 5, 6, 12, 13 b. Sacrifices in social life. 4, 7, 8, 18, 19, 25 9, 10, 14, 20, 26, 27, c. Sacrifices in welfare and security 28 d. Sacrifices in level of 11, 15, 16, 17, 20, 21, living. 22, 23, 24, 29, 30 The reliability coefficients of a, b, c and d were estimated to be .61, .54, .72 and .73 respectively. B. Area/components of CS II Item Numbers a. Sacrifices in abundand 1, 5, 9, 10, 14, 15, living. 16, 17, 19, 20, 21, 23 b. Sacrifices in level of 4, 6, 8, 13, 18, 24 living. c. Sacrifices in traditional 2, 3, 7, 11, 12, 22. life style. The reliability coefficients of a, b and c were observed to be .63, .77 and .59 respectively.

APPENDIX II

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INTERVIEW SCHEDULE

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FAMILY ENERGY SURVEY

		• Sched Numbe				
In	terviewer					
Nai	me of the interviewee					
Add	iress	*			,	
Te	Lephone Number					
Ti	ne: Interview began	_ a.m.;	p.m.	•	-	
Sec	ction 1	,				
Wou	ald you please tell me about the s	ize of ;	your	famil	y?	
1.	What is the total number of child:	ren?	1.			, ,
2.	How many of your children are sta with you for more than 9 months i year?	ying n a	2.			•
3.	In addition to children you and y husband are there. Isn't it so?	our				
1	1) Yes 2) No		3.		2	
4.•	If others are there, how many adu (above 18 years of age) stay with you?	lts	4.			
5.	How many young members (18 years age or less) other than your chil ren stay with you?		5.			
6.	Therefore the total number of mem bers in your household including yourself is	-	6.			

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	Now tell me about the ages as of last birthday yours and your husbands.						
7.	Husband	7.					
8.	Homemaker	8.					
	To be filled later on using the cate- gorisation given below:						
	(1) 24 or under (2) 25-34 (3) 35-44 (4) 45-54 (5) 55 or over						
	cirche the appropriate number.						
9.	Husband	1	2	3	4	5	
10.	Homemaker	1	2	3	4	5	
	The next question concerns your family's Would you tell me the last class complete parents.				1		
	(1) Class 5 or less						
	(2) Class 6-9						
	(3) S.S.C. completed						
	(4) Some college.						
	(5) 1st Degree completed						
	(6) 2nd Degree completed						
	(7) 3rd Degree completed						
	Technical education or vocational training:						
	(8) U.G. level						
	(9) P.G. level						
11.	Husband 11. 1 2 3 4 5 6 7	8	9	-			
12.	Homemaker 12. <u>1 2 3 4 5 6 7</u>	8	9_	•			

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	Now, I would like to ask about your family's en ment. Please tell me each person's specific oc tion (paid service).	
13.	Husband 13	
14.	WifeZ 14	
15.	Child15	
16.	Other if any 16	
	Would you also tell me approximately how much t earn per month from paid service.	
17.	Husband Rsper month 17.	
18.	Wife Rsper month 18.	استقرابه البرو
19.	Child Rsper month 19	
20.	Other if any Rsper month 20	
21.	Are there other sources of income?	
	(1) Yes (2) No. 21. 1	2
	If yes, what sources. Please specify.	
	Are these the chief or main source of income to the family.)
	Sources Main Sou	ırc
	23. Yes	No
22.	a1	_2
	b	_2
	c	_2
	đ	2
	e	2
	f. 1	2

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To be coded later on. (1) Farm earnings (2) Business earnings (3) Rent (4) Interest (5) Dividend (6) Self employment. 24. <u>1 2 3 4 5 6</u>

If yes, the approximate monthly income from these sources is:

25. Rs. per month

(To be computed later) per capita income.

How many years have you been married

26. Number of years_____

Section II

Information Regarding Energy Resource Consumption:

Would you tell me the sources of energy availed of by your husband's and your parents.

- (1) Agricultural waste
- (2) Wood, Sawdust
- (3) Cowdung
- (4) Biogas
- (5) Solar energy
- (6) Coal
- (7) Kerosene
- (8) Electricity
- (9) Bottlede cooking gas (IPG)
- (10) Natural Cooking Gas
- (11) Petrol
- (12) Diesel
- (13) Muscle energy (man and animal)

(Circle the number(s) appropriate)

27. Husband's. 28. Homemaker's. Δ

29. Please name the main source of energy used in your family after marriage for the following purposes (use the same identification Nos.).

		Name	Number
29.1	Meal preparation		
29.2	Meal related activities		Cartage and the Allowed Statement
29.3	Comfort in living		
29.4	Transport		
2 9.5	Heating water for non-meal purpose		
29.6	Hobbies, entertainment, recreation etc.		
29.7	Irrigation		

Any other specify:

30. May I know the different sources of energy you consume now and approximately how much you spend on each per month (Use the identification numbers alongwith names).

30.1	Name	Number		
30.1	all the collection of the second and second and second and the second second second second second second second		Rs	per month
30.2	, 	- 	Rs	per month
30.3			Rs	per month
30.4	·	-	Rs	per month
30.5	- 		Rs.	per month.
30,6		· · · ·	Rs	per month
30.7			Rs	per month
31.	Total monthly ou	tlay on al	l sources of en	ergy
	Rs (To be comp	uted later on).	

Are you satisfied with the various sources of energy you currently consume?

- (1) Very satisfied
- (2) Satisfied

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- (3) Dissatisfied
- (4) Very Dissatisfied

32. <u>1 2 3 4</u> (Circle the appropriate number)

What is the most satisfying characteristic about each energy source you avail of. (Specify the source of energy and identification number).

	Name and nur Source of		Most Satisfying Characteristic
33.1	•	•	********
33.2	-	e e e e	
33.3	·		
33.4	-		
33.5		- 	
33:6			
33.7		-	

What is the most dissatisfying about each energy resource your family consumes.

	Name and number of the Source of Energy		Most Dissatisfying Characteristic
4.1		-	,
4.2			
4.3		•	
4.4	••••••••••••••••••••••••••••••••••••••		
4.6			

All of us want to attain certain things in relation to energy use. These are otherwise called energy related goals. These goals may be related to the acquisition of goods to raise the level of living which when attained lead to an increase in energy consumption or it may be related to conservation of energy resource. However the attainment of either of these increase your family's satisfaction or state of wellbeing. Now with this in mind kindly mention such things that are missing which when acquired would make your family happy. Please tell me what energy related goals your family has.

35.1	To own recreational equipment run on electrical energy - <u>a</u> T.V., <u>b</u> Radio, <u>c</u> Record player, <u>d</u> Tape recorder.	35.1
35.2	To own household electric equipment - <u>a</u> Refrigerator, <u>b</u> Washing machine, <u>c</u> blender, <u>d</u> toaster, <u>e</u> Grinder, <u>f</u> flour mill.	35.2
35•3	To own non-electrical equipment that consume power (energy) - a Stove, <u>b</u> Iron, <u>c</u> Over, <u>d</u> Gas-burners, <u>e</u> Gas cooking range.	35.3
35.4	To get natural gas supply connection.	35.4
35.5	To <u>a</u> Air condition, or <u>b</u> Air cool the house.	35.5
35.6	Add a few more light and fan points - <u>a</u> Light points, <u>b</u> Fans.	35.6
35 . 7	Install water heating system.	35.7
35.8	Own transportation means such as - <u>a</u> Moped, <u>b</u> Scooter/motor bike, <u>c</u> Car.	35.8
35.9	Own a larger vehicle than the one the family has.	35.9

35 .1 0	Minimise energy consumption.	35.	10 _		
35.11	Minimise wastage of energy at the point of use.	35.	11 _	i	
35.12	Substitute muscle energy (human, animal etc.) for commercial sources of energy.	35.	12 _		
35.13	Any other (specify).	35.	13 _		
	Now kindly rank order your energy related goals.		1		
35.1	Increase level of living through the acquisition of material goods.	1	2	3	_4_
3.6.2	Minimise energy consumption.	1	2	3	4
36.3	Minimise wastage of energy.	1	2	3	_4
36.4	Substitute muscle (human or animal) energy for commercial sources of energy.	1	2	3	4

37. What are your family's fears and worries regarding the future that might affect the energy related toals.

Your fears.... 1. 2. 3. 4. 5.

Suppose you say at the top of the ladder the family would have achieved all its goals you just described, at the bottom it would have achieved none. So whereon this ladder do you feel your family is at the present as far defenergy related goals are concerned.

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	Type I Level of living oriented /energy goals.	10
	Type II Energy conservation oriented goals.	9
38.1	Step number in Type I goals	8
38.2	Step number in Type II goals whereon this ladder your family was	7
	five years ago.	
39.1	Step number in Type I goals	5
39.2	Step number in Type II goals	4
	whereon this ladder do you think your family would be after five years from now.	3
40.1	Step number in Type I goals	2
40.2	Step number in Type II goals	1
		1

41. Which of the goals stated above does your family expect to achieve within the next five years (specify).

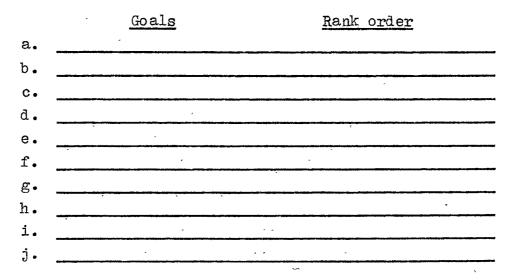
1.	. 7.
2.	8
3.	9.
4.	10.
5.	11.
6	12

- 42. There might be some obstacles that are stopping your family from realising its energy related goals. Now, I would like to know some of the things that seem to be keeping you from attaining your energy related goals.
 - 1.
 - 2.
 - 3.
 - **·**

..**..** 10

- 4.
- 5.

- Goal or goal complexes can be attained in different 43. ways. Which of the following method is applicable in your family's case. 1. Work toward many goals at the same time. 2. Work toward very few goals at the same time. 3. Work toward only one at a time. 4. Work toward one major and a number of minor goals at the same time. 5. Husband and wife have different approaches. 6. No consistent pattern. 6 (Circle the appropriate 43. 1 2 3 4 5 number). 44. Would you now tell me some other goals your family has
- and/or is working toward in other areas of living (eg. education of children, owning a house, financial security, acquisition of property, investment in business, marriage of children - and the like). Specify the goal(s) and please rank order them according to the priority given for each goal.



45. Now would you tell me, in relation to these goals where would you place your family's energy related goals. (That is, would you give the energy related Type I and Type II goals the most important rank, the least important rank or any rank in between. Please specify).

45.1	Type	Ι	goals		Mos	t	important	
					In	Ъе	tween	
				,	Lea	st	important	t

45.2 Type II goals

Most :	important	
In bet	tween	ومعتقدتها ومستعدان والمعادية
Least	important	t

SECTION III

46. Commitment Sclae I.

The following question aims at finding out what you and your family are willing and determined to do th achieve your family's expected level of living oriented energy goals (Type I goals).

Key for the response categories:

DWF		Definitely would follow.
ŴF		Would follow.
A		Uncertain
WN	=	Would not follow.

DNF = Definitely would not follow.

Please indicate the extent of willingness and determination to follow these lines of action, if by doing so, your family could attain its level of living oriented energy goals (Type I goals) by specifying the appropriate response category.

1.	Wife work full time outside the home.	DWF WF	υ	WN	DNE
2.	Wife work part time outside the home.	DWF WF	U	WN	DNF
3.	Family repair its own house-	• .			
	hold equipment.	DWF WF	U	WN	$\mathcal{D}NF$

				A CARLAN	SA ME	11 7 A Licology
				ALL * Sme		5 1
4.	Husband work far away from home to earn a higher income.	DWF	WF		WN	DNF
5.	Husband work overtime.	DWF	WF	U	WN	DNF
6.	Family start nursery or day care centre for children.	DWF	WF	U	WN	DNF
7.	Family leave its present commu- nity and stay elsewhere.	DWF	WF	U	WN	DNF
8.	Family spend leisure at home.	DWF	WF	U	WN	DNF
9.	Adults not visit the doctor unless very sick.	DWF	WF	U	WN	DNF
10.	Children not visit the doctor unless very sick.	DWF	WF	U	WN	DNF
11.	Family out down expenditure on gifts.	DWF	WF	U	WN	DNF
12.	Husband takes on more responsib- ilities.	DWF	WF	U	WN	DNF
13.	Husband gives up spare time.	DWF	WF	U	WN	DNF
14.	Family spend less money on private tuition.	DWF	WF	U	WN	DNF
15.	Family cut down expenditure on transportation.	DWF	WF	U	WN	DNF
16.	Family move to a cheaper house.	DWF	WF	U	WN	DNF
17.	Family spend less on vacation trips than before.	DWF	WF	U	WN	DNF
18.	Family leave its friends in the present community.	DWF	WF	U	WN	DNF
19.	Family move to a community (area) where most of the families are of a different socio-economic back- ground.	DWF	WF	υ	WN	DNF
20.	Family contribute less to volun- tary savings programme than before (so that this amount can be used for buying fridge, car, scooter and the like).	DWF	WF	U	WN	DNF

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21. Family cut down on clothing expenditure.	DWF	WF	υ	WN	DNF
22. Family cut down the expenditure on paid domestic servants.	DWF	WF	U	WN	DNF
23. Family spend less on news paper, story books, magazines, etc.	DWF	WF	ប	WN	DNF
24. Family make less number of visits to the beauty saloon and hair cutting saloon.	DWF	WF	U	WN	DNF
25. Family reduce its expenditure on clubs - Mahila mandals, local activities during festi- vals, club expenses etc.	DWF	WF	U	WN	DNF
26. Family spend less on housing expenditure than earlier.	DWF	WF	υ	WN	DNF
27. Family cut down expenditure on all the food related t tems.	DWF	WF	υ	WN	DNF
28. Family move to house in an un- developed area.	DWF	WF	υ	WN	DNF
29. Family spend less than before on interior decoration (e.g. furniture, furnishing, accesso- ries).	DWF	WF	U	WN	DNF
30. Family spend less than before on entertaining friends.	DWF	WF	υ	WN	DNF

47. Commitment Scale II

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The following question aims at finding out what you and your family are willing and determined to do to achieve your expected energy conservation oriented goals (Type II goals).

Key for the response categories:

Definitely would follow. DWF = WF = Would follow. U = Uncertain. WN = Would not follow. DNF Definitely would not follow. = Please indicate the extent of willingness and determination to follow these lines of action, if by doing so, your family could attain its energy conservation oriented goals (Type II goals) by specifying the appropriate response category.

1.	Many members share the same room while working so as to make use of common Lighting and fans.	DWF	WF	υ	WN	DNF
2.	Family use energy efficient cooking pans (eg. pans of good conductors of heat, proper diameter etc.)	DWF	WF	ប	WN	DNF
3.	Family use less such fabric that require more commercial energy to maintain.	DWF	WF	ΰ	WN	DNF
4.	Family pursue such recreational activities that need little or no commercial energy.	DWF	WF	U	WN	DNF
5.	Family use fans, lights etc. only when necessary.	DWF	WF	U	WN	DNF
6.	Family buy a vehicle consuming less energy (eg. moped instead of scooter, scooter instead of car).	DWF	WF	ប	WN	DNF
7.	Family use energy efficient equipment or appliances.	DWF	WF	υ	WN	$\mathbf{D}\mathrm{NF}$
8.	Family adopt simple living style.	ĎWF	WF	υ	WI	DNF

9.	Family switch off gadgets when not in use.	DWF	WF	U	WN	DNF
10.	Family use the most of day light to perform tasks.	DWF	WF	U	WN	DNF
11.	Family use functional lighting.	DWF	WF	υ	WN	DNF
12.	Family cook less of elaborate meals than before.	DWF	WF	U	WN	DNF
13.	Family use less of gadgets for household work.	DWF	WF	U	WN	DNF
14.	Family use bicycle more often than automobiles.	DNF	WF	U	WN	$\mathbf{D}\mathbf{NF}$
15.	Family lower flame once food starts boiling.	DNF	WF	U	WN	DNF
16.	Family use tight fitting lids for cooking pans to economise fuel consumption.	DNF	WF	υ	WIN	DNF
17.	Family be alert while using gadgets to avoid energy wastage at the point of use.	DNF	WF	U	WN	DNF
18.	Family use less of private transport.	DNF	WF	υ	WN	DNF
19.	Family put out stove rather than leave it on while collecting the next pan to be kept on stove.	DNF	WF	U	WN	DNF
20.	Family switch off fans and lights soon after use.	DNF	WF	U	WN	DNF
21.	Family walk down distances more often.	DNF	WF	U	WN	DNF
22.	Family avoid reheating of food.	\mathbf{DNF}	WF	U	WN	DNF
23.	Family switch off cooking units a few minutes prior to removing pans to use the heat of the stove	DNF	WF	υ	WN	DNF
24.	Family move to a house closer to work place to limit energy consumption on transport.	DNF	WF	υ	WN	DNF

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SECTION IV

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Attitude Scal	е	:
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Schedule No._____

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Name	:			-						
Address	:			u ji - u u u ika	- •		-	*		
		terrest to a state of	-			-			-	

48. The following statements are related to the energy situation and family's social responsibility in the current energy situation. There is no right and wrong answer. Keep this in mind and indicate your agreement or disagreement in relation to each statement.

SA	=	Strongly Agree
A	=	Agree
U	=	Uncertain
D	=	Disagree
SD	=	Strongly Disagree

1.	Petrol, coal, cooking gas, etc. on earth should be decreasing fast.	SA	A	U	D	SD
2.	This energy problem could have far reaching effect on man's survival.	SA	A	U	Ð	SD
3.	The energy problem might not be a serious one.	SA	A	U	D	SD
4.	The problem of energy might not be real.	SA	A	U	D	SD
5.	Petrol, kerosene, coal etc. is formed at a rate faster than it is being used up.	SA	`A	U	D	SD
6.	The energy problem could be felt everywhere in the world (global phenomena).	SA	A	υ	D	SD

SA

A U

SD

D

7. The energy problem should be viewed as a crisis.

8.	Scientists would find a solution to the energy problem (cheap means of getting solar energy or a substitute for petrol will be invented).	SA	A	U	Ð	SD
9.	Strict energy conservation should be done for the survival of man.	SA	A	U	D	SD
	Petroleum, coal, gas etc. on earth should be enough to meet the needs of many generations.	SA	A	ប	D	SD
11.	The energy problem could be the result of the ban (stoppage) of oil supply from countries where it is produced.	SA	A	υ	D	SD
12.	The energy problem should be ignored.	SA	A	ប	D	ŞD
13.	The energy problem would disappear soon.	SA	A	U	D	SD
14.	The energy problem would increase if the present conditions remain the same.	SA	A	υ	D	SD
15.	The energy problem should finally make man's existence impossible.	SA	A	U	D	SD
1 6.	The price increases and shortage of petrol, electricity etc. should be considered as reflections of the energy problem.	SA	A	ប	D	SD
17.	Families should use more of hand operated equipment than power equipment.	SA	A	U	D	SD
18.	Judicious (intelligent) use of energy resources should be made by families.	SA	A	U	D	SD
19.	Families should develop values that promote conservation of energy resources.	SA	A	U	D	SD
20.	Microdecisions made by the family in daily living should have no impact on the national energy problem.	SA	A	υ	D	SD

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21.	Families should continue their life style based on the abundance of energy resources.	SA	A	U	D	SD
22.	The size of the family should have no effect on the energy problem.	SA	A	υ	D	SD
23.	Families should learn more about the energy problem from reliable sources.	SA	A	υ	D	SD
24.	Parents should train the family members to adopt labour intensive (utilising muscle energy) life style.	SA	A	U	D	SD
25.	The Government should bear the whole responsibility of tackling the energy problem.	SA	A	U	D	SD
26.	Families would be wasting their time if they participate in educa- tion programme about energy con- servation.	SA	A	υ	D	SD
27.	The national energy problem should be tackled by utilising renewable energy resources like solar energy, wind energy etc. for industrial pur pbases rather than shift the responsibility to the domestic level.	SA	A.	ΰ	D	SD
28.	Families need not bear the respon- sibility of conserving energy resources.	SA	A	U	D	SD
29.	National problems should not be of concern to the family.	SA	A	υ	D	SD
30.	Family should bring about change in our wasteful energy consumption behavior.	SA	A	υ	D	SD
31.	Families should use solar energy for domestic purposes.	SA	A	ប	D	SD
32.	Families should be having the potential to conserve energy resources.	SA	A	υ	D	SD