

1 EXECUTIVE SESSION

2  
3 THURSDAY, SEPTEMBER 20, 1979  
4

5 United States Senate,  
6 Committee on Finance,  
7 Washington, D.C.

8 The Committee met, pursuant to notice, at 10:30 a.m. in  
9 room 2221, Dirksen Senate Office Building, Hon. Russell B. Long  
10 (Chairman of the Committee) presiding.

11 Present: Senators Long, Talmadge, Ribicoff, Byrd, Gravel,  
12 Matsunaga, Baucus, Boren, Bradley, Dole, Packwood, Roth,  
13 Chaffe, Heinz, and Durenberger.

14 The Chairman: Let us come to order.

15 What can you tell us about our situation, Mr. Shapiro, as  
16 we are getting started today?

17 Mr. Shapiro: Senator, yesterday you worked on the  
18 individual credits and I think that Senator Bradley is prepared  
19 to discuss this conservation proposal this morning. It may be  
20 unless the committee has some other course of action, it may be  
21 appropriate to start at that point.

22 The Chairman: Let us see. We have a pretty good audience  
23 for the Senator.

24 Why do you not go ahead and explain your conservation  
25 proposal, Senator Bradley?

1 Senator Bradley: Thank you very much, Mr. Chairman.

2 Yesterday, we were talking about residential conservation  
3 and what the potential in energy savings is in that sector of  
4 our economy and what the obstacles have been in obtaining that  
5 supply.

6 And recent studies have shown, done at Princeton and  
7 Harvard by OTA and many other reputable bodies, that it is  
8 possible, in the residential sector, to reduce consumption of  
9 energy by 50 to 75 percent. 50 to 75 percent, if appropriate  
10 technology is applied to the problem in a systemized, organized  
11 way.

12 The problem really has been threefold: that consumers  
13 do not perceive that they have a supply of energy in their  
14 homes; they do not have the technical skills to get at that  
15 supply; and they cannot be bothered by the dual hassles, first  
16 the financial hassle. Many people do not have \$1,500 to pay for  
17 residential conservation equipment. That is a hassle. The  
18 second hassle is, who do they go to to get equipment installed?  
19 How can they be sure that Joe's Heating and Supply really will  
20 come in and put insulation in the right place and the right  
21 amount; and how do they know that it is going to last?

22 What I have tried to do in this residential energy  
23 conservation program is to address all three of those problems  
24 in a way that would result in the least amount of cost to the  
25 taxpayer while providing him with the maximum amount of

1 production in his energy consumption in his home and assure for  
2 quality control.

3 So what I would like to do is explain it. Everyone has the  
4 diagram before them. It is a somewhat complicated plan, but the  
5 principle is very basic and very simple: that is a mechanism to  
6 deliver the conservation equipment and overcome the financial  
7 obstacle.

8 There are three actors in the plan: one, the government;  
9 the other is the utility; and the third is a new entity, a  
10 private energy conservation company, a company that is a  
11 profit-making company and is paid only as it succeeds, only for  
12 results, only for units of energy saved.

13 Now, in the diagram, you will see at the top the Secretary  
14 of Energy. The way the program begins, the Secretary of Energy  
15 designates a contracting agency, a governmental agency. It  
16 could be state, it could be Federal, it could be local. And  
17 that contracting agency then enters into negotiations with a  
18 private energy conservation company and the negotiation is to set  
19 the rate at which the government will pay the private energy  
20 conservation company for units of energy saved.

21 The Chairman: Let me trace that first step; let me get  
22 that straight.

23 The contracting agency -- now, is that a utility  
24 commission or who? Who is that, the mayor of the city, or who?

25 Senator Bradley: It could be the governor. It could be



1           The homeowner says 'yes. They come in and perform the  
 2 audit, recommend the changes, and then are followed a week  
 3 later, a few days later, by another component of the private  
 4 energy conservation company that installs those measures that  
 5 are prescribed: caulking, clock thermostatt installation,  
 6 wnatever that prescription was. They fulfill that prescription.

7           At that point, the homeowner receives an immediate  
 8 reduction in his consumption of energy in the neighborhood of 50  
 9 to 75 percent.

10           Now, the energy conservation company, then, leaves the  
 11 home. One year later, you see under negotiates a contract, the  
 12 second job of the contracting agency is to measure the actual  
 13 savings which is done inependently of the energy conservaton  
 14 company and one year later they determine that the measures that  
 15 were installed in the home actually saved, say, a thousand  
 16 kilowatt hours of electricity and the contract called for a  
 17 payment of ten mills per kilowatt hour, so the payment is made  
 18 to the energy conservation company through a revolving fund, a  
 19 government revolving fund, on the basis of the contract price  
 20 entered into at the beginning of the process and the energy  
 21 conservation company is paid ten mills for every kilowatt of  
 22 electricity that is saved.

23           That closes the circle on the delivery mechanism, so what  
 24 we have done here is to harness the private sector and reward  
 25 the profit-making company only for results, only for units of

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1 that the average cost for new nuclear power, it is really about  
2 90 mills, not 10 mills. I was thinking about 190 mills. So  
3 that the utility has the option of new capacity of 90 mills a  
4 kilowatt hour or the purchase of saved energy at about 25 mills  
5 a kilowatt hour. So the utility is going to purchase the saved  
6 energy at 25 mills a kilowatt hour and that will be its  
7 assessment what you will pay into the revolving fund.

8 It would be in the utility's interest to pay everything up  
9 to 90 mills, which is what it would cost if we built a new power  
10 plant.

11 So the volume of savings to the utility that is  
12 contemplating new capacity is up to marginal cost, in this case,  
13 90 mills a kilowatt.

14 The other kind of volume savings is in savings in fuel. If  
15 you introduce conservation measures and reduce conservation 50  
16 percent, you do not have to pay for the fuel to provide that 50  
17 percent of energy, so that is a savings.

18 Both of these payments to the revolving fund will be  
19 allowed to pass through to the consumer. The consumer will  
20 always be paying less for saved energy than he would for new  
21 capacity or for the fuel that he would be required in the  
22 existing capacity before the conservation measures.

23 Now, we come down to those very few utilities, and this is  
24 a real contingency, a very small sliver of the total pie. Where  
25 there is a great deal of excess capacity and where you have the

1 net savings reduction of 50 percent and you cannot make that up,  
2 either through sale of that capacity through new consumers, and  
3 as a result you are forced with raising your rates to the  
4 consumer.

5 So what I am suggesting here is that we give a tax credit,  
6 a refundable tax credit, to the utility that is equal to the net  
7 reduction, the net reduction in revenues that comes from  
8 installing the conservation equipment.

9 For example, the conservation company has gone in and  
10 reduced a utility area 10 million kilowatt hours of consumption  
11 at roughly 5 cents a kilowatt hour. So, for the consumers, that  
12 means they are paying \$500,000 less in rates to the utility.

13 To the utility, that means that it has \$500,000 less in  
14 revenues. Now, assume that that 10 million kilowatt savings  
15 would also make it unnecessary to burn fuel to produce the 10  
16 million kilowatts -- roughly the rule of thumb is 40 percent.  
17 So that the utility would not have to pay \$200,000 for fuel, so  
18 that the \$500,000 minus the \$200,000 gives the utility a net  
19 shortfall of \$300,000, and what I am proposing for those very  
20 few utilities in which this is the case, that the utility be  
21 given a refundable tax credit equivalent to that \$300,000 so  
22 that it would not place it in the rate base by putting that  
23 refundable tax credit, the utility would be made whole in this  
24 process.

25 Now, what is the revenue effect of this? First of all,



1 this program will be phased in. This will not happen  
2 nationwide, immediately. It will be phased in so that it will  
3 be proven to be workable and sound, as we believe it is. But  
4 there are 80 million homes in the country. It costs \$1,500 to  
5 retrofit a home, roughly. We project this to be a ten-year  
6 program, roughly 10 percent a year.

7 In the first year, you could not possibly do that, so we  
8 set 5 percent for the first year, but because it will be phased  
9 in, which is 4 million homes, but because it is phased in,  
10 frankly we are lucky to be able to get one million homes in the  
11 first year, one million homes, which is about the number of  
12 homes in the Washington metropolitan area, a little less than  
13 half the homes in the state of New Jersey. \$1,500 a home  
14 results in \$1.5 billion.

15 Taking a maximum problem of excess capacity and a maximum  
16 tax credit of 40 percent, which is a very small part of the  
17 total national utility structure, 40 percent of the \$1.5 billion  
18 results in \$600 million, but the payment is amortized over a  
19 20-year period so that the revenue effect -- and this will not  
20 occur until 1982 -- will be \$30 million.

21 And it is a minimal revenue effect. It is an attempt  
22 simply to make whole the utility in the event of a major problem  
23 in a small segment of the utilities sector, and that is a very  
24 brief explanation of how it would work, and how the tax credit  
25 fits into the total picture.



1 I would be glad to answer questions. I am sure nobody has  
2 any questions.

3 The Chairman: There are a couple of things that I think  
4 that we ought to explore a little bit. It would seem to me that  
5 you could get by without having a refundable tax credit. I  
6 would think that utilities pay enough taxes, if you give them a  
7 credit against all taxes, you could find enough taxes to credit  
8 against that they would not have to have a refundable credit,  
9 especially if you give them a carryforward and a carryback to go  
10 along with that.

11 Now, point number two, I want to ask you about, how much  
12 those government bonds that would have to be issued, how much --  
13 would that be a burden on the Treasury? Does that increase your  
14 debt by that amount? How would you get the bonds?

15 Senator Bradley: It would obviously be off-budget and you  
16 would be probably -- the amount of the bonds would depend upon  
17 how fast the penetration of the market, how many energy  
18 conservation companies would be in operation out there, and  
19 the bonds are simply a cash mechanism. They will be paid off by  
20 the utilities through their assessments.

21 The Chairman: Maybe -- have you explored the idea of  
22 having the bond without the government, at least the Federal  
23 government, getting involved in it? What is the possibility of  
24 the states borrowing the money, or borrowing it from the private  
25 market?

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1 Senator Bradley: Mr. Chairman, the program makes sense as  
2 a national program because there are differing characteristics  
3 in utility areas around the country, and it is going to be  
4 directed by the Secretary of Energy and executed in the private  
5 sector, and I think that as a facility of the government has a  
6 real role, and one of the way it facilitates, is by providing  
7 the cash that oils the mechanism to make it happen while we are  
8 waiting for the utilities to be assessed, for savings to be  
9 determined, and for payments to be made, so that I think it  
10 should be the government.

11 The Chairman: Has this matter been discussed with the  
12 Department of Energy, and what is the reaction to it, can you  
13 tell me that? They will speak for themselves later on. What  
14 can you tell us about that?

15 Senator Bradley: I am sure that the person who was here  
16 will not know about the program. I have spoken at great length  
17 with the Department of Energy. I think that they are very  
18 positive to this approach, and they agree that it should be  
19 phased in, as I think it should be phased in.

20 If it works as we say it will work, it is the only program  
21 going that addresses the delivery mechanism side of residential  
22 energy conservation.

23 The Chairman: This is complex for the average person to  
24 understand. If I understand your proposal, as far as the  
25 average consumer is concerned, the average householder is

1 concerned, his contact with it would be simply that they would  
2 come to his home, they would offer to insulate his home for him.  
3 That would save his money on his bill and the people insulating  
4 it would not charge him anything at that point. Is that  
5 correct?

6 Senator Bradley: That is correct. The homeowner simply  
7 says yes when the knock on his door comes, and the person there  
8 says, I would like to audit your home, make a prescription and  
9 install the equipment free of charge to you.

10 He has to say yes at that point. If he says no, they  
11 cannot come in.

12 The Chairman: If he understands what it is, he would be a  
13 fool not to let him in.

14 Senator Bradley: I think he would be.

15 The Chairman: That would save him money at no immediate  
16 expense to him.

17 Now, in terms of paying for it from the consumer end, would  
18 there be something on his bill to show him what his part of that  
19 cost would be?

20 Senator Bradley: No. The consumer would experience any  
21 payment on his bill only to the extent that the value of savings  
22 to his utility was assessed.

23 In other words, what his utility would pay, say 2.5 mills  
24 per kilowatt to the revolving fund, would be passed through to  
25 the consumer in the form of something like a fuel adjustment

1 cost and it would appear on his bill -- not specifically that  
2 payment, but his bill would go up slightly.

3 But the point to be made here, that it would go up far less  
4 than what it would go up if this savings had not been  
5 accomplished.

6 For example, let's take a hypothetical case where you have  
7 100 units of energy you are consuming, and you are paying \$100  
8 for it. The energy conservation company comes into your home,  
9 reduces that consumption to 50 units of energy.

10 Let's assume, because of the pass-throughs for new capacity  
11 and fuel savings that the payment is made from that utility to  
12 the government fund. That forces your utility rate up 40  
13 percent. It will never happen, but say that the worst possible  
14 case. He is then paying \$70 for the same comfort and level of  
15 heat that he experienced when he was paying \$100 and he is  
16 paying far less than if this conservation had not occurred, and  
17 the utility would have had to build new capacity.

18 Senator Packwood: Mr. Chairman?

19 The Chairman: Senator Packwood?

20 Senator Packwood: I was unaware of Bill's proposals when I  
21 introduced my energy conservation tax credits. I think he has a  
22 whale of a workable idea.

23 I want to read just about six or seven lines from the  
24 Harvard Energy Study in which they say as follows: "It is  
25 nothing short of ridiculous that now almost six years after the

1 embargo, the United States does not have a broad range, national  
2 program of incentives to encourage retrofit. The speed with  
3 which retrofit can deliver substantial savings argues for a much  
4 more stimulative public policy with tax credits up to 50  
5 percent."

6 Again, I think they were unfamiliar with this idea. I am  
7 not citing this for the tax credits per se, but for the fact of  
8 the tremendous, quick savings that are there. Such a policy  
9 would signal the importance of retrofit and would encourage  
10 homeowners, entrepreneurs, manufacturers. It would make  
11 retrofit economically attractive for some homeowners, not only  
12 attractive but possible for others.

13 I think Bill is right. I want to be a co-sponsor of what  
14 he is doing, and he is approaching it in the right direction. I  
15 am going to dovetail my energy credits to his effective dates  
16 and make sure that you cannot have a double-dip, but he is right  
17 in his conclusion that the single, biggest, quickest place to  
18 make a dent is in home conservation.

19 Senator Bradley: I would just like to respond to Senator  
20 Packwood by saying that the financial hurdle can be overcome in  
21 a variety of ways, by grants, loans, tax credits. The unique  
22 thing about this plan is that it develops a delivery mechanism  
23 to get the conservation equipment into the homes of the American  
24 consumer as rapidly as possible and as efficiently as possible  
25 for the party doing that, the energy conservation company, is

1 not paid unless it succeeds. It is paid only for results, for  
2 saved units of energy.

3 The Chairman: Senator Ribicoff?

4 Senator Ribicoff: Mr. Chairman, I want to commend Senator  
5 Bradley for his coming up with this plan. There is one question  
6 that I think that we have to determine, which is very important.

7 I do not think that any of us around this table is  
8 qualified really to give an answer or to make judgments on this  
9 proposal. The main actors here are the utility companies of  
10 this country.

11 If what Senator Bradley is talking about could work, it  
12 could be very, very beneficial to the entire nation. I would  
13 say that if there is interest in his plan around this table --  
14 and I guess there is -- I think it deserves at least a one day  
15 hearing to bring the utility companies in here and the Energy  
16 Department to tell us how this thing is going to work, because  
17 many of these ideas look good on paper, but when you try to  
18 translate them into reality, they become altogether different  
19 and if there is an interest, Mr. Chairman, on our part, I think  
20 the utilities ought to be brought in and tell us how they can  
21 live with this, or how it will work from their standpoint.

22 The Chairman: Let me put the Senators down in order. Mr.  
23 Heinz asked to be heard, then Mr. Baucus.

24 Mr. Heinz?

25 Senator Byrd: Would you put me down, Mr. Chairman?





1 Senator Bradley: Thank you.

2 There are several ways that this can be handled. One way  
3 is that there can clearly be a difference between what the  
4 revolving fund pays the conservation company. For example, in  
5 some utility areas where they have begun conservation efforts,  
6 they have determined that to save a kilowatt of electricity is  
7 about 2.3 mills, so that if the revolving fund paid the  
8 conservation company ten mills, it would be a substantial  
9 profit, substantial incentive for efficiency and aggressiveness.

10 On the other hand, in that area, the marginal cost, or the  
11 cost for new capacity, is 60 to 70 mills so that you have a  
12 range between 60 mills and 10 mills that you could assess the  
13 utility.

14 So you assess the utility at 25 mills. You have, for every  
15 kilowatt of electricity saved, a 15 mill margin that flows into  
16 the revolving fund which is a national fund and that can be used  
17 to retrofit homes that use home heating oil.

18 The key thing here --

19 Senator Heinz: It sounds pretty good. I do not know  
20 whether it is fair to utilities.

21 Senator Bradley: The utilities option is to purchase new  
22 capacity at 60 mills, 90 mills. There is one spigot out of the  
23 fund. It goes to the conservation company that goes house by  
24 house. There are a number of pipes into the fund from various  
25 utilities. That is one way that this can be financed for home

1 heating oil.

2 Senator Heinz: The one conceptual problem is, in a sense  
3 where everything you say is true and it is a good deal overall,  
4 I think for the utilities, someone could say that you are using  
5 utility revenues to finance home improvements that really do not  
6 save utility energy. They save heating oil distributors having  
7 to distribute less heating oil.

8 I am not sure how serious that is, but it is a potential  
9 problem that I would hope would be either insignificant or  
10 correctible.

11 Senator Bradley: I think it is easily correctible.

12 First of all, let me reiterate --

13 Senator Heinz: Let's assume it is correctible, because I  
14 have one other question I wanted to get to, kind of an  
15 operational one, so that I understand the nature of the audits  
16 and retrofits.

17 One of the things that we found about three or four years  
18 ago was, just by putting a new burner in our oil-fired furnace,  
19 we could cut our usage by about a third. Would that kind of  
20 conservation be a part of the operation here?

21 Senator Bradley: You see, one of the purposes of this  
22 program is not to burden this effort, which is a national  
23 priority, with a lot of government regulations. We are saying,  
24 you can do heat pumps, but you cannot do furnace retrofits; you  
25 can do caulking, but you cannot do X, Y and Z.

1 So what you do is you leave that up to the private energy  
2 conservation company. It is going to do what is most efficient  
3 to achieve the maximum amount of savings because it is on that  
4 basis alone that it is rewarded, that it is paid.

5 If it finds in your area that if there is a retrofit of a  
6 furnace it will derive the maximum amount of savings, that is  
7 what it is going to do.

8 Senator Heinz: Thank you.

9 The Chairman: Senator Baucus?

10 Senator Baucus: I want to commend Bill for this idea, too.  
11 It seems to me it is going to take a leap for utilities, public  
12 and consumers, too, to move more towards saving power than  
13 buying additional production. I think it is an idea that we  
14 have an obligation to pursue very diligently.

15 A couple of quick questions, Bill. I wonder what you have  
16 found the utility reactions to be thus far?

17 Senator Bradley: I think that once you sit down with the  
18 utilities and go through this whole thing that they react with  
19 understanding and some support.

20 The reason that they do is that they are frankly in a very  
21 dire financial state. Just look at the number of utilities in  
22 1970 that had AAA credit ratings and the number of utilities  
23 today that have AAA credit ratings.

24 In 1970, thirty utilities dropped their credit ratings; the  
25 credit ratings were lowered.

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1 In 1974 alone, 43 dropped in credit ratings, and that is a  
2 continuing process.

3 Another example of utility problems, one of the ways that  
4 you assess the stability of a utility is to see what their  
5 before-tax coverage is. Before-tax coverage is the amount of  
6 earnings, how much their earnings times what their debt service  
7 is.

8 In 1970, their earnings were five times their debt service  
9 before taxes. In 1974, it dropped back to 2.6 and now it is  
10 about 2.8.

11 They are very pressed, and why are they pressed? They are  
12 pressed because they have \$50 billion in investment out there in  
13 new construction that they are not able to rate-base effectively  
14 at this time. They are up against public utility commissions  
15 that do not always give them the maximum amount of flowthrough  
16 on their fuel adjustment, and they are under pressure from their  
17 investors to pass through the maximum amount possible in the  
18 form of dividends.

19 The utility then faces the prospect of a new power plant,  
20 with all of the assorted regulatory harrassments, with all of  
21 the complicated financial pressures that all of these facts  
22 indicate, and along comes somebody who says, "You do not have to  
23 any of that. What we are oing to do is create the equivalent of  
24 a new power plant within your present structure and we are going  
25 to charge you one-fourth of what it would cost.



1 Committee has a scheduled hearing on this and other assorted  
2 plans a week from Friday.

3 The Chairman: Senator Byrd?

4 Senator Byrd: Thank you, Mr. Chairman.

5 I have listened very carefully to Senator Bradley as he has  
6 outlined this proposal and to me it is a very intriguing one.  
7 It is certainly a bold and imaginative approach and I like bold  
8 and imaginative programs.

9 On the surface, at least, it seems to have a great deal of  
10 merit. There are two thoughts that come to mind. The first one  
11 has been touched on by Senator Ribicoff and now by Senator  
12 Bradley.

13 I think that we need the judgment and viewpoint of the  
14 utilities. I am wondering, too, what bureaucracy would be  
15 needed to make this work, and then also -- I hate to mention it,  
16 the cost. It will not cost the homeowner, as I understand it,  
17 anything. 80 million homes will be retrofitted. The total cost  
18 will be in round figures, \$150 billion.

19 Where does that \$150 billion come from?

20 Senator Bradley: It comes ultimately from the utilities  
21 because the utilities option is to spend \$560 billion to create  
22 the same capacity, so they have a good deal here, \$150 billion  
23 over twenty years to purchase saved energy in the same amount  
24 that they would have to spend \$560 billion to build the same  
25 capacity.

1 Senator Byrd: Of the \$150 billion, just to use that as a  
2 round figure, what part of that would come from the general  
3 treasury in the form of credits to the utilities?

4 Senator Bradley: From the general treasury, it is my view  
5 -- you mean on the tax credits?

6 Senator Byrd: Yes.

7 Senator Bradley: It is my viewpoint that this program will  
8 be a self-financing program. The point of the tax credits is to  
9 allow for the possibility that in a few utilities with a lot of  
10 excess capacity there will be a net revenue reduction because of  
11 the installation of energy-efficient equipment, and that net  
12 revenue reduction should be given a tax credit, in my view, and  
13 in 1982, that tax credit will be \$30 million. That is the  
14 effect, and I do not know if you were here, Senator Byrd, when I  
15 went through how I arrived at that figure.

16 Senator Byrd: \$30 million is very little to accomplish all  
17 of this.

18 Senator Bradley: In 1982, you see.

19 Senator Byrd: I think it is a very intriguing plan that  
20 should be fairly explored. Thank you, Senator.

21 Senator Bradley: Let me respond to your bureaucracy  
22 question as well. The whole purpose of this is to get away from  
23 the bureaucracy and that is why the actor in this, the one who is  
24 going to employ the people -- and, by the way, to retrofit those  
25 homes in this country would require a labor force of 400,000 or



1 500,000 people. They are all going to be in the private sector.

2 Senator Byrd: Thank you.

3 The Chairman: Senator Chafee?

4 Senator Chafee: Thank you, Mr. Chairman.

5 I would just like to join in commending Senator Bradley for  
6 what is certainly a very thoughtful proposal that gets at one of  
7 the real problems that we have got in the country where the  
8 quick and mammoth savings can be made, as he indicated. I just  
9 have a couple of questions.

10 One, if I understood Senator Heinz's question, it went  
11 along the line that I had that the savings might well not be  
12 electricity. They might be in gas, they might be in oil, fuel  
13 oil, and your felling was yet the cost of that saving, or to  
14 accomplish that saving, would be paid by the electric utility.

15 But you have taken this into account in the figure? You  
16 can take care of it?

17 Senator Bradley: I would like to correct the impression  
18 that it would be paid by the electric utilities. It would be  
19 paid by electric and gas utilities. A large part of the savings  
20 would come from gas and in gas you have a real opportunity,  
21 because the amount of savings that you create in a gas utility  
22 you would allow that utility to resell at the marginal cost.

23 So that you would allow them to resell it in an unregulated  
24 environment.

25 You take the Citygate price average for gas in the country

1 is \$1.50. That is what they pay, and they are regulated to sell  
2 to their consumers at a specific level.

3 If you freed up capacity in that gas utility, that extra  
4 gas could be sold to the industrial sector, or the commercial  
5 sector to back out residual oil, and it could be sold at the  
6 marginal cost, which would be the higher cost, which would mean  
7 the utility would be able to make more.

8 Certainly it is the gas and electric utilities that would  
9 be the revenue strengths for this; not simply the electric.

10 Senator Chafee: The oil, of course, we would have to  
11 somehow take care of that?

12 Senator Bradley: As I alluded, the oil costs would be the  
13 difference between what is paid to the conservation company and  
14 what the utility is assessed. Number one. That is one  
15 possibility. There are some other variations, and if you would  
16 like me to, I will speak to them.

17 Senator Chafee: The other problem I had, so much of an  
18 audit of energy savings in a house not only deals with the  
19 physical characteristics of the house insulation and so forth,  
20 but it also deals with the discipline of the owners of the house  
21 and that slackens as pressure comes off.

22 Under your measured savings, as I understand it -- this is  
23 a technical detail; I am curious. You had the measured savings  
24 take place a year later, after. Why such a long delay, because  
25 that gives the conservation company carrying these very

1 expensive costs for such a long time?

2 Senator Bradley You need a full year because consumption  
3 of energy is different for different seasons, and you have to  
4 measure that. You cannot do it -- if you installed it in July  
5 and measured it in August, how would you know what they saved in  
6 February?

7 That is why you have to do it one year later.

8 Senator Chafee: I see.

9 Mr. Chairman, I think it is a good idea. I look forward to  
10 further hearings. It seems to me it is the kind of thing that  
11 if we start it, it would be sort of a pilot project rather than  
12 trying to take too big of a step at once.

13 Thank you.

14 The Chairman: Let me just say this, Senator, that some  
15 years ago before you became a member of this body, when we had  
16 that last, big energy tax before us, it was my hope that we  
17 could find a way to achieve the kind of thing that you had in  
18 mind.

19 At the time, I was trying to find a way that the utilities  
20 could pay for it and get their money back out of their charges,  
21 and I asked members of the utility industry to come have  
22 breakfast with me and discuss it and see what they thought.

23 At that time, the thought was that the companies would do  
24 it themselves. I see that the President had a suggestion along  
25 the lines of what the utility companies had. Really, I was

1 disappointed in the meeting, because that is just not the kind  
2 of thing that they seem to be interested in doing themselves.  
3 But what you are talking about may work out very well.

4 I would be glad to suggest to you some people who live in  
5 this town that you can talk to who are very knowledgeable and  
6 experts in the utility business, having been chief executive  
7 officers of those kinds of companies who know what the utility  
8 end of it will be, and they think that it would work. As far  
9 as I am concerned, I would think that it would work.

10 Senator Bradley: May I comment, Mr. Chairman?

11 The Chairman: Yes.

12 Senator Bradley: I think that there will be those people  
13 who will be testifying a week from Friday and there are  
14 sometimes ideas that are new ideas and require a test and I  
15 think, as Senator Chafee said, that this is certainly one of  
16 those ideas that, if it were tested in several areas, if it were  
17 phased in, you could determine whether it worked or not.

18 And in this whole process the taxpayer is not out at all.  
19 You have to have an energy conservation company that is willing  
20 to assume risk before anything happens, before any money has  
21 changed hands, and that is also the answer to Senator Chafee's  
22 point about what they will install.

23 The Chairman: Yes, sir.

24 Maybe you can move your hearing up, Senator, because I  
25 would hope that we might be able to vote on that before we

1 report this bill, and I would hope we could report this bill  
2 next week.

3 Senator Baucus?

4 Senator Baucus: A quick question. Why have you discarded  
5 the idea of giving the credits to utilities for the work itself,  
6 the work of the energy companies, the conservation companies?  
7 Why do you not provide a credit, or some incentive to the  
8 utilities themselves to provide the audits and retrofits  
9 directly? Why go through this fairly convoluted process?

10 Senator Bradley: The reason you do not give the credits to  
11 the utilities to do this is that the utilities in the last  
12 energy bill were specifically prohibited from getting involved  
13 in this conservation effort.

14 Senator Baucus: Theoretically, why?

15 Senator Bradley: Theoretically, why? Because I think that  
16 the penetration rate will be much greater if it is lodged in the  
17 private sector with energy conservation companies that have a  
18 real incentive to get out there and do an effective job. If  
19 utilities did it without this mechanism, you would find that the  
20 problem that we are addressing in the tax credit in a much  
21 broader area where, if they were successful in promoting the  
22 reduction in consumption, their rates would rise.

23 Utilities are going very slow, and the next thing is, if  
24 utilities did it, it would require the consumer to initiate. In  
25 this program, somebody knocks on your door. He is there. You

have to say yes or no. If he says no, you go away; if he says yes, you have an energy-efficient house.

3 If the utilities did it, the way it would happen, they would send a flyer out in their bills, if you want an audit, call number X. You call number X, the audit would come, and they would say, if you want a financing plan, select and send back. You would have to figure out the financing plan. Then they would send you a list of installers and you would have to make a third decision that, indeed, you want this bad enough that you are going to select among ten or fifteen installers to get it installed in your house.

12 That will not lead to a back-out of 1.6 to 1.8 million barrels of oil a day in seven years; it just will not happen. This is a more efficient delivery mechanism.

15 The Chairman: What the advantage is in your proposal is that it means a problem that I have been worried about for a long time. When you approach this, you go to some fellow's house, and he would like for you to really do a super job for him and do a lot of expensive things, from the point of view of energy conservation, are not the most efficient.

21 And if you just let somebody add something to his rate base, a manager of a utility company, you spend a lot more money than is necessary.

24 If they are being paid by the number of units that they save, then it is to their advantage to use the cheapest possible

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1 method to save the money to save energy, because in this case,  
2 they are paid on the number of units they save.

3 There are going to be some problems here that arise that do  
4 not immediately meet the eye, but do come up, such as in an area  
5 where you are losing population, and people move out of town. A  
6 ghetto area does not have as many people as it wants to, so they  
7 do not use much energy because there are not as many people in  
8 the house, not home as much of the time as they were before.

9 It is hard to measure how much of it occurred because of  
10 that. And I guess you will have to have -- how would you handle  
11 that? Suppose you lose population?

12 Senator Bradley: First of all that is a decision that the  
13 energy conservation company has to make. They have to make the  
14 assessment in Newark, New Jersey, for example, who is moving and  
15 how many houses are vacant and what their costs would be.

16 But what we find in older areas is that those homes are the  
17 least energy efficient, so if they just did a little bit in  
18 those areas, it would give the maximum amount of savings.

19 The Chairman: Senator Ribicoff?

20 Senator Ribicoff: Just a suggestion. Since you are taking  
21 this up with the Energy Committee and also it involves finance,  
22 because of its size and complications, I would suggest that you  
23 consider piloting it out somewhere in this country with a  
24 utility that is enthusiastic. They will try to make it work.

25 I think that you save the problem of trying to impose

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1 anything so vast on the entire nation and it probably would fall  
2 because of its complexity and its size.

3 But I think that you really have got something here, and it  
4 deserves to be piloted out by some group in some community that  
5 has enthusiasm to prove to the country that it will work, and  
6 then go on from there.

7 Senator Bradley: I think Senator Ribicoff's suggestion is  
8 a positive one. What I would like to do is to have the  
9 legislation and to have it gradually introduced. It will not be  
10 a nationwide program overnight. It will be a program that will  
11 be tested in a few areas, and those areas will have to be areas  
12 where you can get a very clear judgment on whether it works or  
13 not.

14 If it does work, then it is expanded.

15 To me, the important thing is to have in place the  
16 structure for a national program and to phase it in.

17 This tax credit that we are talking about is really a very  
18 small sliver of this whole operation. This is not an enormous  
19 amount of revenue and the Energy Committee is very much getting  
20 into the inter-workings of this whole thing and I would hope  
21 that the Committee could keep that in mind and address the  
22 question of the tax credit as just a small part of the whole  
23 package.

24 Senator Ribicoff: Are there any other comments?

25 Senator Heinz?



1 Senator Heinz: One question you may have given some  
2 thought to is to what extent, or to how you will deal with the  
3 problem that the company who may come in and insulate, as I  
4 understand it, will, by virtue of the fact that there is one  
5 measurement period a year later, there is not a series of  
6 measurement periods going out into the future. Is that not  
7 correct? Just one measurement?

8 Senator Bradley: That is correct. It is unsure whether it  
9 would be one year or one-and-a-half years.

10 Senator Heinz: A potential problem is whoever is putting  
11 this stuff in could put in insulation or whatever the  
12 retrofitting device is that does not last, and that they are  
13 highly motivated to get a quick show of energy savings, and then  
14 the world be damned thereafter.

15 Senator Bradley: We have taken care of that.

16 Senator Heinz: I am sure there is a way of taking care of  
17 that.

18 Senator Bradley: The way you take care of that, the  
19 payment to the conservation company is spread over a ten-year  
20 period or a twenty-year period. As a result, during that time,  
21 the energy conservation company is responsible for quality  
22 control. If something goes wrong, they are the ones that have  
23 to make sure that it works.

24 So as long as they still have to get money, the shoddy  
25 workmanship or the fly-by-night operator will not have a part of

1 the market.

2        Senator Heinz: This energy conservation company has a  
3 monopoly in the area in which it operates, and it seems to me  
4 that if you only measure the energy efficiency on a one-time  
5 basis, there is no way you know whether or not you pay that  
6 company out over a period of time, whether the job they did is  
7 actually working.

8        It gets even more complicated if the house changes  
9 ownership -- houses do change ownership to a considerable degree  
10 in this country over five years. You and I know, from mailing  
11 our constituents, how often those letters come back marked,  
12 "Nobody here at this address" or at this name.

13        You might want to take that into account by some kind of  
14 subsequent measurement period. If you do that, you might want  
15 to think of structuring some kind of release so there would be  
16 no privacy problem when the first contract or audit is made.

17        It seems to me that the owners of the house five years  
18 hence, particularly if a different owner has some kind of  
19 invasion of privacy problem, if it was not spelled out as a  
20 condition for doing the audit and work, that measurements can be  
21 taken.

22        I assume the measurement can only be established by  
23 getting the owners of the house too give you all their bills.

24        Senator Bradley: No, those are all on central file with  
25 the utility, with the exception of heating oil.

1 Senator Heinz: If it is heating oil, lots of luck. They  
2 are not on central file.

3 Senator Bradley: With the heating oil company and  
4 distributors.

5 One of the other purposes of this program is to deal with  
6 the fewest number of actors possible. For example, if you are  
7 involved in a grant program, you are dealing with 80 million  
8 homeowners. In this program, you are dealing with 3,000  
9 utilities.

10 Senator Heinz: In just one Congressional districts in  
11 Pennsylvania you are dealing with 90 heating oil distributors.  
12 I wish it was that simple, I really do. I do not know how many  
13 there are in the state of Pennsylvania and New Jersey, but they  
14 are local, little guys.

15 Senator Bradley: And vocal.

16 Senator Heinz: And vocla.

17 One last thought. What do you do -- and I am trying to put  
18 myself in the position of the unscrupulous energy conservation  
19 manager who just wants to make a buck. The first thing I would  
20 do --

21 Senator Bradley: I never thought of you that way.

22 Senator Heinz: Thank you. I appreciate that.

23 I think I would be awfully tempted to find people who are  
24 about to change their living patterns in a way that would save  
25 energy -- those who, say, go to Florida for a couple of months,

1 have a second home, about to buy a second home, someplace where  
2 energy -- you know, where they can go in the cold winter, a  
3 variety of things like that, or somebody who might be moving  
4 away and their house might be closed for six months while it is  
5 being sold.

6 I am sure those things can be dealt with. I just wanted to  
7 raise them as things that do need to be dealt with. I am not  
8 asking you to deal with them right now. It would be bad for the  
9 program, which I think is a good idea, under the program for  
10 several scandals would show up that would put a bad name on  
11 something that I think that is inherently very, very good. That  
12 is why I raise it, that is all.

13 Senator Bradley: Let me just say one more thing to that  
14 point. The energy conservation companies have to be complex  
15 management firms that have to have some ability to raise capital  
16 before they get the government and contract, and all of the  
17 incentives are structured so that you will avoid the  
18 fly-by-night people.

19 You have a very high-powered management company that  
20 utilizes local suppliers and local people as subcontractors.  
21 But, you know, there are a number of tricks to the kind of  
22 problem you are citing.

23 First of all, the contracting agency will negotiate the  
24 contract, but the Secretary of Energy is the final decision  
25 maker on what the price will be.

1 Second, with that contract, they have to convince the bank,  
2 and the bank has to look at their stability and whether they are  
3 going to be around eight years from now, so that you have that  
4 check as well, so that you have two checks before they even  
5 begin their work.

6 Senator Ribicoff: Is there anyone here from Treasury or DOE  
7 that is familiar with this proposal and would like to comment on  
8 it?

9 Mr. Lubick: Mr. Chairman, we have seen the details for the  
10 first time. We knew that it was coming and basically it takes  
11 off on the theme that was part of the President's program. He  
12 suggested using electric and gas utilities to help do the  
13 retrofitting for the residential and commercial customers for  
14 conservation improvement.

15 So that we think that the plan also is very promising and  
16 that it seems to move very close to ideas that we were working  
17 on.

18 Senator Ribicoff: What was the attitude of the utilities  
19 when this was first broached a number of years ago?

20 Mr. Lubick: I do not know, Senator.

21 Senator Ribicoff: Wanting to take that responsibility.

22 Mr. Lubick: You would have to address that question to the  
23 Department of Energy rather than to us. We plan to have the  
24 Department of Energy work with Senator Bradley on this. I  
25 understand that there has been some cooperation and the general

1 response has been very favorable.

2 Senator Bradley: Mr. Chairman, could we ask Treasury to  
3 comment about the general administration of this kind of tax  
4 credit, as to whether they see it as efficient or problematical?

5 Mr. Lubick: On the tax credit itself, we have done some  
6 quick checking since we saw the details this morning and,  
7 indeed, we see a few problems, but we believe they can be  
8 surmounted.

9 We were informed by the Revenue Service that there already  
10 is extensive audit coverage of the utilities, that of course,  
11 they maintain for rate-making purposes excellent books and  
12 records, and so it appears to us that, administratively, we can  
13 surmount the problems.

14 Senator Ribicoff: Are there any further questions or  
15 comments by the Senators here concerning the Bradley proposal?  
16 I believe that when we suspended, Senator Packwood's proposal  
17 was before the committee generally.

18 Senator Packwood: I have some other proposals, Mr.  
19 Chairman. We adopted some yesterday, and I would be happy to go  
20 on.

21 You ought to have in front of you a chart entitled "Summary  
22 Analysis of S. 1760" and dated September 20, 1979.

23 Senator Ribicoff: Would the staff distribute that chart?

24 Senator Packwood: I thought they had been distributed.

25 Senator Ribicoff: S. 1760?

1 Senator Packwood: Dated September 20, 1979. I updated it  
2 from yesterday. I will be updating it from time to time,  
3 because on occasion you see the words "no estimate." I do not  
4 want to mislead anybody. At the time the charts were passed  
5 out, I had no estimates and I left them out. But I do not know  
6 why the charts have not been passed out yet.

7 Mr. Chairman, we all have in front of us now the Summary  
8 Analysis of S. 1760 dated September 20, 1979 and as I indicated  
9 yesterday on these estimates, they are Joint Committee tax  
10 revenue estimates.

11 The center column, entitled "Rate of Oil Saved Per Day as a  
12 Result of the Bill," the savings that, by and large, the  
13 Department of Energy agrees that the method of computatin is as  
14 good a method as you can have, but realizing that nobody can  
15 guess how many people might put in heat pumps or insulation in  
16 1988 or '89, so that it is a guess.

17 However, the righthand column, the savings per barrel are  
18 reasonably accurate estimates, because there that is simply a  
19 function of how much did it cost and how much was put in. If  
20 you doubled the amount put in and you doubled the savings per  
21 barrel cost, you are still going to come out about the same.

22 Yesterday we adopted under the first section, residential  
23 (a) and (d), solar, wind and geothermal and primary residence  
24 test deletion.

25 We passed passed over for the moment (b) conservation and

1 (c) heat pumps. I want to argue today stongly for conservation  
2 although I want to tailor the effective dates to Bill's bill  
3 that would make an effective date of July 1st, next year, and  
4 have it terminate July 1, 1990 which, I think, is the date in  
5 your bill.

6 Let me explain exactly what these columns are so that you  
7 understand.

8 The estimated revenue loss in 1990 to the Treasury is  
9 \$1,750,000,000. This is on a 50 percent tax credit for  
10 conservation up to a maximum, however, of a \$2,000 investment or  
11 \$1,000 credit, on the assumption that for the bulk of the homes  
12 in this country, what this conservation covers, which is  
13 insulation, storm windows, weather-stripping, it can be done for  
14 that price, and there was no need to go to the \$10,000 limit  
15 that we had in the solar installations, wind, or geothermal.

16 In 1990, it is presumed by the Joint Committee you will  
17 have a revenu loss of roughly \$1.7 billion.

18 The savings in 1990, 344,000 barrels of oil per day,  
19 roughly at a cost of \$15 a barrel and if you never had another  
20 installation of anything, of any kind, of any kind of  
21 conservation device, any kind of weather-stripping, and kind of  
22 storm windows, you would continue to have that per barrel  
23 savings after that, year-in, year-out.

24 The Chairman: Here is a problem that occurs to me on this.  
25 This is a tremendous item of cost, \$1,350,000,000.

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1 Senator Packwood: I will change the effective date on  
2 that, Mr. Chairman. I am willing to bring that loss  
3 tremendously down in 1980 and, frankly, I do not mind giving it  
4 an eight or nine month delay on the effective date to allow  
5 people to get primed up to get ready to produce it and put it  
6 in.

7 The Chairman: Now here is the thing that we are talking  
8 about. Bill Bradley had a proposal which required very little  
9 government tax money, hardly any at all. He is talking  
10 something about -- he talked about \$30 million a year and even  
11 that would not hit until a little later on.

12 In that case, you would be paying, by way of the utility  
13 companies, to get this job done. If we go that route, this  
14 duplicates that.

15 Senator Packwood: No, it does not duplicate it, Mr.  
16 Chairman. This is complementary to it, and you cannot double  
17 dip it. Indeed, Bill Bradley's energy doctor comes to your  
18 house and you accept what they put in. You do not get any  
19 credit. You are not paying anything for it. They come in and  
20 put in the insulation and they determine the savings. The  
21 utility company pays them and the homeowner does not get any  
22 credit.

23 I do not know, assuming Bill's plan goes into effect, how  
24 quickly it is going to cover this nation, how many rural areas  
25 are going to immediately have a house doctor in a conservation

1 company available. They have the alternative of conservation  
2 credits. We have those in the law now. This is simply an  
3 increase of what is in the law.

4 I do not want to leave anyone out of the opportunity for  
5 taking these conservation credits because Bill Bradley's house  
6 doctor has not gotten there. It is not a double dip.

7 I do not want to pretend to you, Mr. Chairman, that these  
8 are inexpensive, but I want you to look at the righthand column  
9 of what you are saving and conservation is the single biggest  
10 area where we can immediately make savings of what you are  
11 saving per barrel of oil, and this is not going to require any  
12 extra production.

13 It is going to provide some employment, although I am not  
14 trying to sell it on that basis. It is just the thing that can  
15 be done the quickest, and where we have the biggest area to  
16 save, and for the life of me, of all of the ones in here, this  
17 is the one that would apply to more people, more quickly than  
18 any other single particular device or program that we may look  
19 at.

20 Senator Ribicoff: Mr. Chairman, I think Senator Packwood  
21 makes a good point. I do not think there is any inconsistency  
22 with Senator Bradley's proposal, with Senator Packwoods'.  
23 Senator Bradley's proposal, if it were adopted, would not stop  
24 paying off maybe another four or five years to try to put it  
25 together.

1 Bill, when do you think?

2 Senator Bradley: Assume that the bill was passed and an  
3 energy conservation company moved into an area in 1980. Assume  
4 that they were trying to do one million homes in 1980. You  
5 would wait until 1981 to measure savings and that would be the  
6 point at which payments would start to be made.

7 That is why the credit does not take effect until 1982.  
8 And because it is phased in, to prove its workability, you are  
9 talking about 1980 and probably 1981 as times in which we will  
10 not be certain whether it will go full-scale, a national  
11 program, although the legislation will be drawn so that it can.

12 So that it seems to me that that is the window where the  
13 tax credits that were specifically written so as not to apply to  
14 an area in which a conservation company was operating would  
15 provide some relief, dependent upon the budgetary situation.

16 Senator Ribicoff: The problem that you have setting up a  
17 contracting agency, negotiating contracts and an energy  
18 conservation company and the retrofitting and the utilities  
19 respectfully, I think it will take a considerable period of  
20 time, but that does not mean that you should stop because it  
21 will take a considerable period of time.

22 But I think Senator Packwood's program contemplates one of  
23 the two biggest users of energy: the home, next to that is the  
24 automobile. If you could get a handle on both of those, you  
25 would really start doing something about our energy problem.

1           And as far as Senator Packwood's proposal, it can start  
2 tomorrow; as fast as you pass the bill.

3           Senator Packwood: In every single treatise that is  
4 written, when everything is shaken out, conservation comes to  
5 the top as the thing you can do the quickest and one, as you  
6 look at the different estimates, one of the most inexpensive.

7           Senator Ribicoff: The least implication on the  
8 environment, the least bureaucracy, and without problems of the  
9 environment or anything else involved.

10          Senator Bradley: Mr. Chairman, may I ask the Joint  
11 Committee that settled on the revenue loss estimates what they  
12 would base that on, the \$1.3 billion or \$1.7 billion.

13          Senator Packwood: In answering that, I am going to change  
14 the effective date on the first one, because we only have a  
15 slight amount. I am going to change the effective date. It  
16 would dramatically reduce the revenue loss in that year.

17          Senator Bradley: I would like to suggest that those are  
18 high, that, in fact, that will not be the amount that will  
19 happen.

20          If you have a tax credit that is available, I think that if  
21 you made a tax credit available, you are taking care of those  
22 people who do not yet have a conservation company and you have  
23 given them the opportunity. if history is a guide, there are  
24 not many people who take advantage of that tax credit, because  
25 they have to overcome the inertia of taking action to make their

1 home energy efficient, so that the idea of a tax credit might  
2 even be less here than you have estimated.

3 Senator Packwood: If you bill and my were both passed, my  
4 revenue estimates would be very high. My guess is, given the  
5 option between the house doctor coming and saying, we will take  
6 care of it for nothing, and you go out and find a contractor and  
7 put in the insulation and take the credit, I know which way most  
8 poeple would go.

9 So those estimates when Jim Wetzler and the Joint Committee  
10 made them, they did not presume your bill at all, so I think  
11 that has probably got to be the highest estimate.

12 Senator Bradley: I think it is by far the highest.

13 The Chairman: Let's hear from Treasury.

14 Mr. Lubick: There are a couple of points here. I would  
15 like to ask Mr. Smith from the energy Department also to comment  
16 on them.

17 Essentially it comes down to a question of  
18 cost-effectiveness, I think, on all of these things. The prices  
19 of energy have increased dramatically since the credits that are  
20 already in the law have been passed and that has provided a  
21 tremendous stimulus to insulate and we have found that the great  
22 demand for insulation has, in fact, led to shortages and is  
23 driving up the price of insulation.

24 On the delay of the effective date, we woul have to be  
25 concerned, of course, that this may cause some delay in people

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1 putting their insulation into effect which could create some  
2 problems.

3 I think I would like to ask Mr. Smith, if he would, to  
4 comment on the cost-effectiveness because I think they have done  
5 some work in that area.

6 Mr. Smith: I do not have any specific information, but we  
7 certainly, I think, can confirm that any kind of rapid  
8 increase in the rate of the tax credit, say from 15 to 50  
9 percent, or 15 to 30 percent, is going to create a demand  
10 sufficient to run the price of the product up in the short run.  
11 As Mr. Wetzler pointed out yesterday, of course, in the  
12 long-run, capacity for insulation can be constructed and  
13 eventually the market will settle out.

14 In any event, it is likely to settle out with a  
15 considerable influence to the tax credit.

16 Secondly, I would reaffirm the 60 percent price increase  
17 that we have had for crude oil is certainly adding an enormous  
18 incentive to all forms of conservation measures so that I think  
19 that we would share the concern that we would be reasonably  
20 cautious in advancing the rate of tax credit on the expenditures  
21 over the next few years, particularly in light of the strong  
22 potential, as Senator Bradley's plan.

23 Senator Packwood: Mr. Chairman, let me say again I did not  
24 make these estimates. These are Joint Committee and Treasury.  
25 Correct me where I am wrong, because we have checked with

1 Treasury also and, although there are slight variances in  
2 estimates, they do not vary very much from the Joint Committee's  
3 on these estimates.

4 These are not my estimates on energy savings; they are not  
5 my estimates on cost.

6 What they are is the best estimate we can have on the net  
7 increase above the present credit, then an increase in cost and  
8 the net increase in energy savings and the mathematical  
9 computation of the per barrel cost.

10 I well say over and over, I cannot guarantee that those  
11 figures are accurate. I do not think that there is anyone else  
12 who has, at the moment, a better methodology in anything we are  
13 going to talk about, exemptions for small producers, stripper  
14 wells, tertiary, all we can go on is the best information we  
15 have.

16 The Chairman: Mr. Sunley?

17 Mr. Sunley: I obviously cannot guarantee that those  
18 figures are accurate. To put some perspective on it, in the  
19 1978 tax returns that were filed covering two years worth of  
20 insulation credits, as you recall, the '78 act went back to '77,  
21 we had \$4.2 billion of qualified insulation expenditures  
22 recorded on the '78 returns and a tax credit of \$550 million.  
23 That was at a time when we had a 15 percent credit.

24 Sort of general inflation and the increase in the credit  
25 rate, more general awareness of the credit. The 1980 estimate

1 on effective date that we were considering when we were trying  
2 to estimate your proposal, \$1.3 billion, does not really strike  
3 me as being out of line, out of the ballpark.

4 Obviously it might be \$1 billion, \$1.5 billion.

5 Senator Packwood: John, on my staff, has checked the Joint  
6 Committee's against the rough Treasury estimates, and where we  
7 may be off \$5 or \$10 million or \$15 million here or there, we  
8 are not very far apart from the Joint Committee estimates.

9 Mr. Shapiro: Senator Packwood, let me make another point,  
10 to follow up on what Mr. Sunley just indicated and that is there  
11 are times when we give you revenue estimates and there are times  
12 when they are just assumptions and close guesstimates, and some  
13 of them are better than others.

14 I should point out that here is a good case where, as Mr.  
15 Sunley said last year, taking two years into account, the actual  
16 tax credits with regards to residential installation was \$550  
17 million. The estimate that we gave the committee was \$580  
18 million. So that showed that we were very close in this  
19 particular item. It is good to point that out when it happens.

20 The Chairman: Here is the thing that bothers me about it.  
21 Maybe the Joint Staff can help me.

22 You have got a cost of alternative energy which is the same  
23 thing that the oil and gas people are trying to get. Is that  
24 not right?

25 You have that here.



1 Mr. Shapiro: That is not ours. That is Senator  
2 Packwoods'.

3 The Chairman: That is Senator Packwoods'.

4 Senator Packwood: I have taken them from other sources.  
5 You will see them footnoted there. That particular one is from  
6 Princeton University, Professors Ross and Williams, published in  
7 July.

8 The Chairman: That is not DOE, that is not the Joint  
9 Committee, that is what somebody says?

10 Senator Packwood: I tried to get these from the Joint  
11 Committee. I am not going to complain. They are not going to  
12 make those estimates.

13 The Chairman: I understand that.

14 Here is the problem that bothers me about this. We were  
15 discussing this same insulation credit a couple of years ago and  
16 Bob Dole was here making the point that all of the fiberglass  
17 that could be manufactured was being put into place the way it  
18 was, and he was right. You could not get the fiberglass.

19 So if you wanted to do more insulating that was being done,  
20 you would have to do it with an inferior insulation material  
21 because you could not get the fiberglass. You could not get the  
22 fiberglass, which was the best insulating material to do the job  
23 with.

24 I guess they have expanded capacity, but I looked at TV the  
25 night before I left and there they were again on television

1 explaining the late night show, showing us that all of the  
2 fiberglass they can produce is being put in place under the  
3 existing incentives.

4 Fiberglass is not under price controls. There is no price  
5 control on it, so when you put a 50 percent tax credit, the  
6 government is going to pay half the cost of it. I would think  
7 that what you are really doing is just running up the price.

8 So if you give a 50 percent tax credit and you double the  
9 price of the product, all you have done is just let Uncle Sam  
10 pick up the tab for doubling the price.

11 Senator Packwood: I would like Jim Wetzler to comment on  
12 that. He mentioned yesterday some facts in addition to  
13 fiberglass.

14 The Chairman: Some other fellow had something he was  
15 showing on there. He took a bunch of stuff in his hand and put  
16 a blow torch on it and he showed he could hold off the bottom of  
17 this material even though the blow torch was on top. That stuff  
18 might work, although it has not been proved out.

19 Go ahead, Mr. Wetzler. What can you tell us?

20 Mr. Wetzler: I think the danger of a credit like this is  
21 by increasing the credit by 35 percent you could induce the  
22 price to go up as much as that. Obviously it is precisely the  
23 higher price that you would be counting on to get more companies  
24 to expand their capacity to produce more insulation.

25 On the one hand, the price increase is bad from the

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1 standpoint of inflation. But on the other hand, it is the price  
2 increase that would get more companies into the business of  
3 constructing, making these materials.

4 It is more a matter of degree. The more modest credit, you  
5 would have less risk on the inflation front.

6 Senator Packwood: Again, let me ask you this. I do not  
7 want to overstate these figures.

8 The 344,000 per barrel day savings estimate would be  
9 dramatically reduced if you assumed the doubling of the cost of  
10 insulation, doubling of the cost of not so much installation of  
11 insulation. That 344,000 figure is taking some presumptions  
12 about cost.

13 Mr. Wetzler: What you have got is you have a certain  
14 number of people who would insulate without any change in the  
15 credit and then your energy savings come from the people who are  
16 induced to insulate because you have increased the incentive.  
17 If currently there is very little excess capacity in some of  
18 these industries -- and again, this is something that is hard to  
19 predict -- a large fraction of insulation goes into new homes.

20 Now, to the extent that the monetary policies of the  
21 Federal Reserve cause housing starts to decline, that will make  
22 some capacity available for retrofitting.

23 This is the sort of thing that is very hard to predict very  
24 far in advance.

25 Senator Packwood: That is why I was trying to be very

1 careful with these figures, and I want you to correct me if I  
2 misstate them. Your estimated loss in 1990, 1.7; estimated  
3 savings, 344,000; per barrel cost, \$15 a barrel.

4 Mr. Wetzler: That is not our estimated savings, Senator.

5 Senator Ribicoff: If you would yield. I would like  
6 someone to comment on Senator Packwood's figure, estimated  
7 savings of 344,000 barrels.

8 Is this not the objective of this entire exercise, the  
9 savings of energy?

10 I would like a comment from the Department of Energy or the  
11 Joint Committee or the Treasury Department concerning his  
12 figures of 344,000. I think that should be one of the most  
13 important factors in our decisions here.

14 Mr. Wetzler: The Department of Energy has been studying  
15 Senator Packwood's proposals and trying to make estimates of the  
16 energy savings.

17 Senator Ribicoff: Could we have a comment, Mr. Smith, on  
18 Senator Packwood's figure?

19 Mr. Smith: I am afraid our estimates -- and I suspect none  
20 of those in this area are derived from good econometric models.  
21 We do not know how people react, so basically you have to assume  
22 some kind of participation rate, and that is what derives the  
23 tax loss estimates and that, in turn, almost automatically,  
24 since you generally can assume a fairly constant savings rate  
25 out of the given expenditure, that pretty fairly directly

1 derives oil savings.

2 So, on balance, we do not seriously disagree if you spend  
3 that amount of money you will get that amount of oil savings  
4 through this kind of tax credit. But it assumes also that the  
5 tax credit does not drive up the price so that, in effect, you  
6 get a net reduction -- not a net reduction, but a reduction in  
7 the overall amount of insulation.

8 Senator Ribicoff: You have another problem. I do not  
9 think there is any question that the price of oil is going to  
10 continue to rise year by year.

11 \$22 or \$23 a barrel, in another few years it will be \$30 or  
12 \$40 a barrel. So the big issue before the country and the  
13 Congress is how do you save energy, because the costs are going  
14 to keep going up, and I would say by 1990 we would be lucky if  
15 we are not paying \$50 a barrel for oil.

16 So therefore, while the costs may be going up and there may  
17 be a tax loss, but what you would pick up, if you are picking up  
18 if you are picking up the equivalent of \$15 a barrel certainly  
19 would be an offset.

20 But the key problem for the nation in its future is saving  
21 energy. Do you agree with Senator Packwood that conservation is  
22 the greatest of all sources to save energy, or is he wrong?

23 Mr. Smith: I do not think there is any question that, as a  
24 group, it has the largest potential. It is a question of  
25 matching the tax credit to the capacity of the industry.

1 Senator Ribicoff: The big issue the country is going to  
2 have to face somewhere down the line is not the cost, but the  
3 supply from any source.

4 The Chairman: The administration -- I assume you have been  
5 recommending tax credits to help with insulation. Just how far  
6 has the administration gone in your recommendations for tax  
7 credits? It is not in this bill, but how much have you been  
8 recommending for tax credits to encourage insulation?

9 Mr. Smith: We have recommended no additional tax credits  
10 beyond those in the National Energy Act for insulation. We have  
11 proposed a passive solar tax credit related to new homes. It  
12 does not deal with conservation and retrofits, obviously.

13 The Chairman: Senator Bradley?

14 Senator Bradley: Mr. Chairman, I would like to make the  
15 point that again the tax credit idea addresses only one-half of  
16 the problem, which is the financial hurdle. The other half is  
17 the delivery mechanism.

18 I would like to suggest to the committee that there seems  
19 to be a move in the Senate these days that there is going to be  
20 some specific proposal that addresses only the financial hurdle.  
21 And I frankly would like to see the Finance Committee get a  
22 little piece of that, and so that we are assuming that my plan  
23 has a delivery mechanism and that it is going to go full out as  
24 soon as possible, that I think it might make a nice package to  
25 trigger a tax credit in the early years of this program, as

1 Senator Packwood has suggested.

2 Frankly, he has tailored it so as mine succeeds his is  
3 phased out, which is another incentive that I would like to see.  
4 And I think it might be worthy of some consideration in net  
5 effect, because the other proposals we have not yet reached a  
6 meeting of the minds, whether Senator Kennedy has his grant,  
7 somebody else has loans, there could be some duplication unless  
8 the plans are harmonized.

9 I think that is indeed what Senato Packwood has suggested.

10 The Chairman: Senator, what concerns me about it is the  
11 cost of this, and I do not want to pre-empt the consideration of  
12 these other items. I think that we ought to consider them  
13 together. I think that we understood yesterday that we were  
14 going to try to look at these things in terms of where we think  
15 we get the best return for our money.

16 Now, I am a little concerned because of the very high  
17 expense of this that this might pre-empt some of the other  
18 things that ought to be considered.

19 Why do we not --

20 Senator Packwood: Mr. Chairman, look --

21 The Chairman: Look at this in connection with the other  
22 items.

23 Senator Packwood: I deferred this yesterday. I am willing  
24 to defer this again and look at the other items. But once more,  
25 I want to go through the process. I am getting frustrated. I

1 have done the best I can to get the best statistics I can and I  
2 do not think they are going to get any better tomorrow or the  
3 next day or the day after that. I know that Bruce Hagen has  
4 talked to Jim Wetzler and went through the process of reasoning  
5 as to where we got the figures.

6 I say again, I cannot guarantee that they are right. I  
7 guess I can say nobody else can produce any better methodology  
8 so just skip over it, and you come down to business.

9 (c) hydro-electric, is a great bang for the buck. It is  
10 the best estimate on there. But if you get down to  
11 conservation, it is the single biggest savings, and therefore it  
12 is going to cost the most money.

13 Senator Ribicoff: Mr. Chairman, I think that we can  
14 proceed as we talked yesterday. I think that our decisions  
15 around here should be made on the basis, is this a worthy idea,  
16 with the understanding that the Committee is not acting finally,  
17 that somewhere when we are through we are going to have a  
18 reconciliation.

19 As I look at this whole list that we have before us,  
20 there is no question that we are going to be way, way over on  
21 what we can really afford to do, so I think that we could save a  
22 lot of time trying to find out whether we think that the idea is  
23 a good one, with the understanding that it is not final, that  
24 before we come out with a final bill we are going to have to go  
25 through a reconciliation process.



1 The Chairman: Why do we not agree yes, we will have a  
2 further credit for conservation and then we go down to summing  
3 up, see how much we can afford for it.

4 Senator Packwood: That is exactly what I would like to do.

5 Senator Dole: How much do you have in there?

6 Senator Packwood: Conservation, storm windows, clock  
7 thermostats, weather stripping, electronic replacements for  
8 pilot lights.

9 The Treasury Department -- correct me if I am wrong -- now  
10 has the power to broaden definitions in the conservation  
11 section, do they not, as new ideas come along? I do not want to  
12 give you a list and say that is all there is. That was in the  
13 law two years ago, was it not?

14 Mr. Lubick: If they are of more or less the same.

15 Senator Packwood: Generically.

16 We tried to freeze that about two years ago when we had the  
17 boiler heater up here. Rather than saying the state of the  
18 technology of 1978 is such and we will freeze it right there,  
19 give a reasonable discretion to Treasury to include other things  
20 that would fit within the broad idea.

21 The Chairman: Senator Danforth?

22 Senator Danforth: Mr. Chairman, the present credit is what  
23 -- 15 percent, is that it?

24 Mr. Shapiro: 15 percent.

25 Senator Danforth: The proposal here is 50 percent.

1 Senator Packwood: On the maximum of a \$2,000 investment.

2 Senator Danforth: Let's say is the 30 percent credit twice  
3 as good as the 15 percent credit? Is the 45 percent credit  
4 three times as good? Is there some diminishing return that sets  
5 in?

6 Senator Packwood: I had, and I can get, some figures on  
7 that. I will, again, come back to these figures. These are net  
8 costs and net savings, so that, if you wanted to have, instead  
9 of a \$1.7 billion loss, a \$1 billion loss, your savings might be  
10 ---again, I will take a guess -- 200,000 rather than 344,000.  
11 And at one time I thought about trying to estimate these at 30  
12 percent to 40 percent, 60 percent, which is what Professor  
13 Stroebel recommends.

14 Senator Danforth: I guess that if you had no credit at  
15 all, you would have some poeple putting in insulation, and if  
16 you had a 100 percent credit, you would have more people putting  
17 in insulation, and that there is probably some kind of a curve  
18 of whether or not we can figure out what the curve is or not, in  
19 between.

20 Senator Bradley: I think that is kind of imposing an  
21 arbitraty judgment on something that there is not a lot of  
22 reliable information on. Is a 35 percent credit better than a  
23 40 percent credit? How much better? How do you measure that?

24 I think that the list of measures that qualify, I think,  
25 just simply illustrate the problem of how ridiculous it is for

1 the government to make a list that they will modify annually or  
2 every two years to determine whether you will get a credit or  
3 not when it all could be handled in the private sector.

4 That is my argument which I have made for two hours; I will  
5 not make it any more. The relative merits between 30 and 35  
6 percent are very difficult to calculate.

7 What methodology would you use to try to calculate that?

8 Senator Danforth: I do not know. All I am asking is a  
9 question.

10 If 50 percent is the best figure and we can estimate that  
11 at 50 percent there is going to be certain energy savings and a  
12 certain cost to the Treasury, can the same projection be made  
13 with 40 percent, 30 percent?

14 Senator Ribicoff: If the Senator would yield at that  
15 point, would Mr. Wetzler and Mr. Shapiro comment on Senator  
16 Danforth's question?

17 Mr. Wetzler: You have to look at both the supply and  
18 demand. In terms of the demand for insulation, you can look at  
19 a 15 percent credit as sort of reducing the price of insulation  
20 to the consumer from \$1.00 to 85 cents.

21 As you increase the credit, you are getting to lower and  
22 lower prices. Eventually, if you got to a 100 percent credit,  
23 the insulation would be free. Presumably, at that point,  
24 everybody would want to do it.

25 And so, progressive increases in the credit generate more

1 and more demand very likely because you are making the stuff  
2 cheaper and cheaper to the consumer.

3 The risk you run as you get higher rates of credit in the  
4 short run you will run against the capacity ceiling of the  
5 industry and the credit from that point on will be dissipated as  
6 just leading to higher prices or shortages. From the standpoint  
7 of energy savings, you get more energy savings, you get more  
8 energy saving in the long run, as you go to higher and higher  
9 credits, until, of course, you reach the point where everybody  
10 is insulated and you stop getting any more. By having a little  
11 credit, you reduce your risk on the inflation side that you are  
12 going to lead to price increases in the next couple of years.  
13 That is more or less the choice the committee has to make.

14 Senator Danforth: I have understood everything you have  
15 said, but the theory behind this amendment is that a 15 percent  
16 credit is not enough to do the job, but a 50 percent credit  
17 would do a better job, that you pay for the 50 percent credit  
18 and that you have a revenue loss which is greater than the  
19 existing law would have it be.

20 All I was saying was to say if this theory is right ---and  
21 I am sure it is -- is it just a straightline kind of a curve  
22 where the higher the credit you get predictably higher amounts  
23 of insulation put in, or is that kind of a diminishing returns  
24 type curve? I do not know.

25 Is there any way to know?

1 Mr. Wetzler: Very clearly, there is a point after which  
2 further increases in the credit lead to diminishing returns  
3 because once you have gotten the credit high enough, that  
4 everybody insulates, then further increases in the credit do not  
5 buy you any more.

6 It is sort of like the Lafer curve, not something  
7 theoretically true, but the key is finding out where that point  
8 is. That is something that is a lot more difficult, and we just  
9 do not know.

10 Senator Matsunaga: Mr. Chairman?

11 The Chairman: Mr. Matsunaga.

12 Senator Matsunaga: I raise the question that the Chair  
13 raised earlier, and I would like to know whether, under the  
14 present law, there is enough insulating material so that we can  
15 adopt a program such as the Bradley plan and even the plan being  
16 proposed here by Senator Packwood, by increasing incentives.

17 Do you have any figures as to whether we do need additional  
18 incentives and if we provide additional incentives, will there  
19 be sufficient insulating material to those who will have an  
20 incentive to do things?

21 Mr. Wetzler: As we understand the situation for  
22 fiberglass, they are doing very well. They are close to  
23 capacity. Much of that fiberglass goes into new houses and  
24 where people are predicting a decline in new housing starts in  
25 the next six months.





1 comes in and tells me about Mr. Bradley's program, and says we  
2 are here to do a job for you and we are going to pay the whole  
3 cost, the whole cost, it is not going to cost you anything, I  
4 would feel like a sucker.

5 Why didn't somebody tell me about the Bradley program? I  
6 am out \$1,000 I could have saved if I had just heard about  
7 Bradley's program first. Then I went along with the Packwood  
8 program.

9 Senator Packwood: If they see the Bradley program  
10 coming six months or a year down the road, my hunch is they will  
11 wait and these revenue losses are going to go down.

12 That is a chasing-your-tail argument, and you know it.

13 The Chairman: I do not think it is chasing my tail. I  
14 would feel like a fool. I went and signed up with Packwood and  
15 lost \$1,000, even with the tax credit.

16 Senator Packwood: My hunch would be, Mr. Chairman, that  
17 one of the people who would not be fooled would be you.

18 The Chairman: Senator Dole?

19 Senator Dole: I just wanted to raise a question. Has  
20 there been any effort to trace whether or not with the tax  
21 credit we have on insulation, which I questioned a year ago,  
22 whether they have increased the prices of insulation to absorb  
23 the tax credit? Has there been any evidence of that?

24 Mr. Shapiro: We have not checked that.

25 Senator Dole: I understand the Federal Trade Commission



1 may be checking that. I am not suggesting it is based solely  
2 because of the credit, but that is one temptation. If the  
3 government is going to pay half the cost, I do not know why some  
4 company would not find it reasonable to raise the prices.

5 Mr. Shapiro: Senator Dole, I will tell you why it is very  
6 difficult to determine that completely. On the one hand, you  
7 are talking about companies who manufacture the insulation and  
8 that is very easy, to determine what their price is. But the  
9 delivery process of getting into the home is a different one.

10 These are a lot of small companies and they give estimates  
11 and many times these estimates are what the traffic can bear,  
12 and sometimes a salesman will say, you get a 50 percent credit,  
13 but he raises his price 20 percent. It still makes the net the  
14 same. The homeowner has not really benefitted.

15 That depends on the salesman and the homeowner, how they  
16 bargain.

17 Senator Dole: There is a question on whether or not the  
18 supply is there and I do not understand the R factor. That has  
19 been another investigation carried on by the FTC, defective  
20 insulation. So it is very attractive. People want to be  
21 insulated, give them a 50 percent tax credit. It is going to be  
22 even more attractive.

23 Again, I think there is a question of whether or not the  
24 supply is there, fiberglass or some other source. Even without  
25 any credit, or with the existing credit, you can recover your

1 cost between three and five years because of savings on your  
2 energy bill.

3 Senator Packwood: Not with no credit, Bob.

4 Senator Ribicoff: Mr. Chairman, I am wondering; time is  
5 going by and we have a lot to do.

6 I would move that we approve the Packwood proposal in  
7 principle and then come back to it when we have finished this  
8 long laundry list and reconciled where we want to go with all  
9 the individual items.

10 In principle, it is worth approving, so I so move, Mr.  
11 Chairman.

12 The Chairman: All in favor, say aye.

13 (A chorus of ayes.)

14 The Chairman: Opposed, no.

15 (No response)

16 The Chairman: The ayes have it.

17 Yes, sir, Mr. Chafee.

18 Senator Chafee: I have a couple of brief additions if it  
19 is appropriate now, to the Packwood proposal. One, I would  
20 include boilers, burners and furnaces. That is a problem in  
21 that the Packwood proposal, the present 15 percent, only applies  
22 to burners currently and we have estimates that a 24 percent  
23 savings could be made in replacement of the entire unit.

24 That is where the problem comes. The entire unit is much  
25 more expensive when you are talking, the burner alone is

1 relatively inexpensive. When you are talking about an entire  
2 furnace, then you are talking some real dollars. Not real  
3 dollars investment, but real dollar in savings.

4 It is the standard principle that the expensive things save  
5 the most money.

6 So I have this proposal that I would set before you dealing  
7 with a variety of items. One, the complete furnace unit; the  
8 other lessors that they can claim credit. A tenant is never  
9 going to fix up his property. And the principal residency rule  
10 and cover that little gap of between the house is built in April  
11 of '77 and '79. Just choosing some cut-off date.

12 And the last one, allowing the credit against the previous  
13 year's taxes, if you do it before April 15th.

14 Senator Ribicoff: Mr. Chairman, I think, like the Packwood  
15 proposal, Senator Chafee's ideas are excellent, and I think,  
16 again, that we ought to approve this on principle and come back  
17 in the reconciliation, and I so move.

18 Senator Chafee: Thank you very much and I appreciate that.

19 There is just one other thing that I had.

20 The President has come out with a wood stove tax credit at  
21 15 percent and, you know, people do not take that seriously, but  
22 honest-to-goodness, up our way, they are going into it more and  
23 more, and the more we can get them -- I suspect down your way,  
24 too; I do not know -- but the most we can encourage people, so I  
25 would suggest not a 50 percent. That seems a little high,

1 because people seem to be doing it. I would go a bit higher  
2 than the President's. I would go to 25 percent on the wood  
3 stove.

4 The Chairman: I so move.

5 Senator Heinz: If the Senator would yield.

6 Senator Chafee: That completes my points. I am through.  
7 Mr. Chairman.

8 Senator Heinz: I indicated, Mr. Chairman, yesterday that I  
9 would like to include in Senator Chafee's amendment -- I have  
10 discussed it with Senator Chafee and I understand he has no  
11 objection -- to include clean-burning coal furnaces.

12 I am not an agent for any of the suppliers, but according  
13 to the estimates we have made on what happened to be  
14 anthracite-fired furnaces widely used in England, the energy  
15 saving that would be realized assuming a 50 percent tax credit  
16 rather than the 25 percent tax credit would be in the  
17 neighborhood of approximately ---the cost of that would be  
18 approximately -- \$5.50 a barrel per barrel saved, at a 25  
19 percent tax credit, would be \$2.75 per barrel saved, according  
20 to the estimate we made.

21 I think that it would be very advantageous to include these  
22 in here. Yesterday, when I brought the subject up, the Treasury  
23 was going to be prepared to say something, one way or the other,  
24 I think.

25 Senator Ribicoff: I think the principle ought to include

1 the Heinz proposal. The more we can use coal, the better off  
2 this country is for any reason. So that I would move the Chafee  
3 proposal as amended by Senator Heinz.

4 The Chairman: Mr. Lubick?

5 Mr. Lubick: If I may speak first to Senator Chafee's  
6 proposal on furnace units, this is a real watershed. Last year  
7 you were limiting yourself to the retrofitting and now if you  
8 give a credit to these complete replacement units you are  
9 spending an awful lot of money on what somebody is going to be  
10 doing anyway, which is to be buying a new unit, a whole new  
11 unit, that he is going to have to buy when he builds his house.  
12 You are not making more efficient --

13 Senator Chafee: I would not have it for new construction,  
14 just for replacement.

15 Mr. Lubick: Even so, replacement, when the old one gets  
16 back, if you are paying for the whole cost of it.

17 Senator Chafee: You are not paying for the whole cost.  
18 You are paying for 50 percent, the credit.

19 Mr. Lubick: You are giving the credit based on the whole  
20 cost, not retrofitting and making an existing unit more  
21 efficient.

22 When one buys a new unit, presumably he is going to buy an  
23 efficient one. It seems to us that this is a big and very  
24 expensive change in the policy that was consciously adopted last  
25 year.

1 Senator Ribicoff: I think that you missed the point.

2 Most of the old furnaces are in old homes owned by the  
3 lower middle-class and they do not have the money to put in a  
4 complete new unit, a complete new furnace. And I think that the  
5 encouragement you would give tem would amount to a substantial  
6 sum and energy savings and I think that this year we are much  
7 more serious about saving energy than we were last year.

8 I think Senator Chafee's concept and idea is an excellent  
9 one.

10 Mr. Lubick: Senator Ribicoff, I would say that, in most  
11 cases, people replace their furnaces when the old one is  
12 completely on the blink and they cannot use it anymore.

13 Senator Ribicoff: I do not know. If you travel to some of  
14 the small, old mill towns in Rhode Island, or Connecticut or  
15 Massachusetts, you would find out that they make do with what  
16 they have. They just do not have the money to put in a new  
17 furnace. They make do, even though it is not the right thing  
18 for them, because they cannot afford the high cost of the  
19 replacement of a complete unit.

20 I am sure that Senator Chafee is talking out of experience  
21 in his own state.

22 Senator Chafee: I think you have put your finger on it,  
23 Senator Ribicoff. The point is that these things are  
24 inefficient and the technology ha advanced, but the capital  
25 advancement to put a new one in, the savings are not enough of

1 an incentive to take that plunge.

2 What we are trying to do ---sure, some people will when --  
3 buy, the old furnace is no good, then they will get a 50 percent  
4 credit. Those are the marginal groups.

5 The people we are really trying to get after are those who  
6 go in and make this 24 percent savings in energy with this  
7 incentive that normally they would never ever think of doing.

8 Senator Ribicoff: I move the adoption, in principle, of  
9 the Chafee proposal as amended by Senator Heinz.

10 The Chairman: All in favor, say aye.

11 (A chorus of ayes.)

12 The Chairman: Opposed, no.

13 (No response)

14 The Chairman: The ayes have it.

15 Mr. Stern: Mr. Chairman, in regard to how we describe this  
16 in the press release, am I correct that what you have agreed to  
17 is that you have agreed in principle to increasing the tax  
18 credit for individual conservation plus -- and in principle to  
19 making some of these other items in Senator Chafee's proposal,  
20 and so on, eligible, but that the effective date and the amount  
21 of the credit would be determined later.

22 The Chairman: It will have to be subject to what we call a  
23 reconciliation.

24 Senator Packwood: What we agreed to in principle is a  
25 \$2,000 limit, 50 percent. I do not want people to confuse this

1 with the higher solar limit. We do not need that.

2 The Chairman: With this understanding that these  
3 amendments will have to be subject to a reconciliation when we  
4 come to the end of the bill because we anticipate that we are  
5 going to vote for some things that will increase the cost very  
6 substantially, then we are going to adjust the cost of it and we  
7 are going to have to reduce the amount of the credit from 50  
8 percent, or even 25, and you may have to move the dates so as to  
9 make it 50.

10 The cost, in other words -- we are looking at some  
11 expensive cost estimates here and we are going to have to  
12 anticipate that we may have to reduce it in order to come within  
13 the cost estimates.

14 Senator Pakwood: Alternatively, keep the credit and drop  
15 some other things altogether, but tailor it to fit it.

16 Senator Bradley: Mr. Chairman, I think we should maintain  
17 our flexibility to be able to reduce, if we do not have the  
18 revenues.

19 Senator Packwood: Let me ask a quick question, Abe. Do  
20 you want to do heat pumps today?

21 Senator Ribicoff: If you do.

22 The Chairman: I would prefer not to do it now. It is  
23 12:27 and I am due at a meeting at 12:30.

24 Senator Packwood: We could do it after you left.

25 Senator Chafee: The wood stove is only a 25 percent

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1 maximum credit after his.

2 The Chairman: We will meet at 10:00 tomorrow, gentlemen.

3 (Whereupon, at 12:30 p.m. the Committee recessed, to  
4 reconvene at the call of the Chair.)

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