

ID Number	A1-2003-0002-eng
Title	Survey on Attitudes towards Nuclear Power Generation

**I. The following questions are about nuclear power generation in general.**

Q1. What is your opinion on the following statements?

	Strongly agree	Agree	Disagree	Strongly disagree	Don't know
a. We have to be willing to sacrifice economic growth in order to resolve environmental problems on a fundamental level	1	2	3	4	8
b. It is better to live a prosperous life in a polluted environment than live a financially difficult life in an unpolluted environment	1	2	3	4	8
c. There won't be any disruption of power supply even without additional nuclear power generation in our country	1	2	3	4	8
d. Our government policy on nuclear power is being made through an open process	1	2	3	4	8
e. Our government's decision on nuclear power policy well reflects the opinion of the public	1	2	3	4	8

Q2. What do you think is the most serious cause of destruction of the environment in our country?

- 1) Industrial waste
- 2) Consumer waste
- 3) Radioactive waste
- 4) Vehicle emissions
- 5) Nuclear Power Plant
- 6) Industrial emissions and contaminated water
- 7) Livestock wastewater
- 8) Pesticides
- 77) Other (Specify: \_\_\_\_\_)

Q3. When you hear the word "nuclear" which image comes to your mind? Positive or negative?

- 1) Positive image
- 2) Negative image
- 3) Positive and negative images equally

Q4. Which of the following methods do you think our country should focus on to generate power in the future?

- 1) Hydroelectric power
- 2) Thermal power (coal, oil, gas, etc.)
- 3) Nuclear power
- 4) Solar power
- 5) Wind power
- 6) Tidal power
- 7) Other (Specify: \_\_\_\_\_)

Q5. Who do you think has the most influence on determining government policy on nuclear power?

- 1) Civic organizations
- 2) Government
- 3) Area residents
- 4) Group of experts
- 5) Korea Electric Power Corporation
- 6) Local governments
- 7) Other (Who? \_\_\_\_\_)

Q6. Which of the following power generating methods do you think our country will employ the most in the future?

- 1) Hydroelectric power
- 2) Thermal power (coal, oil, gas, etc.)
- 3) Nuclear power
- 4) Solar power
- 5) Wind power
- 6) Tidal power
- 7) Other (Specify: \_\_\_\_\_)

Q7. In your opinion, how trustworthy is the government's nuclear power policy?

- 1) Very trustworthy
- 2) Somewhat trustworthy
- 3) Somewhat untrustworthy
- 4) Very untrustworthy

Q8. Have you experienced any of the following situations related to environmental organizations in our country?

	Yes	No
a. I have seen promotional materials of an environmental organization	1	2
b. I have attended a lecture or hearing sponsored by an environmental organization	1	2
c. I have called or visited an environmental organization	1	2
d. I am or have been a member of an environmental organization	1	2

Q9. How much do you agree or disagree with the claims of environmental organizations in our country?

- 1) Strongly Agree
- 2) Agree
- 3) Agree in part and disagree in part
- 4) Disagree
- 5) Strongly Disagree
- 9) Don't know the claims of environmental organizations

Q10. Which of the following facilities would you oppose the most if constructed near your neighborhood?

- 1) Garbage incineration plant
- 2) Chemical manufacturing plant
- 3) Nuclear power plant
- 4) Crematorium
- 5) Radioactive waste treatment plant
- 6) Human waste treatment plant

Q11. What is the most frequently used way you obtain information or knowledge about nuclear power?

- 1) TV or radio
- 2) Newspaper or magazine
- 3) Relatives, friends, neighbors or co-workers
- 4) Books on nuclear power
- 5) Promotional literature from government agencies
- 6) Environmental organizations
- 7) Political organizations
- 8) Religious organizations
- 9) Internet
- 10) School education
- 77) Other (How? \_\_\_\_\_)

Q12. Is the information you obtained more positive or more negative in its content?

- 1) More positive
- 2) More negative
- 3) Equally positive and negative

Q13. How trustworthy are those information?

- 1) Very trustworthy
- 2) Somewhat trustworthy
- 3) Somewhat untrustworthy
- 4) Very untrustworthy

## II. Following questions are about nuclear power (plant).

Q14. Do you think the following statements regarding nuclear power in our country are accurate or inaccurate?

	Accurate	Inaccurate	Don't know
a. Currently, the nuclear power generates less than 30 percent of the total electricity generated in our country	1	2	8
b. Nuclear power generation allowed the reduction of electricity costs in our country	1	2	8
c. The nuclear power plants in our country are monitored by an international atomic energy organization called IAEA	1	2	8
d. The nuclear power plants in our county use pressurized water reactors similar to the nuclear power plant in Chernobyl, Russia	1	2	8

Q15. Please give us your opinion on the following statements about nuclear power.

	Strongly agree	Agree	Disagree	Strongly disagree	Don't know
a. You will eventually die even if you get exposed to a small amount of radiation	1	2	3	4	8
b. There is the possibility of a nuclear power plant exploding due to mechanical malfunction or an operator's mistake	1	2	3	4	8
c. People living near nuclear power plants have a higher risk of cancer than people living in other areas	1	2	3	4	8
d. The probability of an accident at a nuclear power plant is decreasing steadily	1	2	3	4	8
e. Nuclear power plants pollute the environment more than fossil fuel burning thermal power plants	1	2	3	4	8
f. Nuclear power plants can be built safely	1	2	3	4	8
g. Nuclear power plants leak enough radiation to cause harm to people	1	2	3	4	8

Q16. How safe do you think the nuclear power plants are in our country?

- 1) Very safe
- 2) Somewhat safe
- 3) Somewhat unsafe
- 4) Very unsafe

Q17. What do you think is the best way to respond to the safety concerns of the nuclear power plants in our country?

- 1) Reinforce safety regulations
- 2) Protest and file complaints with responsible agencies
- 3) Resolve the issue through civil activist organizations
- 7) Other (How? \_\_\_\_\_)

Q18. In your opinion, should our county build more nuclear power plants, maintain the current state, or reduce nuclear power plants?

- 1) Build more nuclear power plants      ⇒ Go to Q18-1.
- 2) Maintain the current state              ⇒ Go to Q18-2.
- 3) Reduce nuclear power plants            ⇒ Go to Q18-2.

Q18-1. Do you agree to the building of a nuclear power plant in your neighborhood?

- 1) Yes
- 2) No

Q18-2. What is the reason?

- 1) The results of scientific research and investigation can't be trusted.
- 2) The decisions of the government or agency can't be trusted
- 3) The environment surrounding the area can be contaminated or destroyed.
- 4) The opinions of the area residents will be excluded in the decision making process.
- 5) The expectation of economic loss including lower property value, destruction of residents' livelihood, etc.
- 6) The compensation will not be sufficient.
- 7) Safety concerns
- 77) Other (Why? \_\_\_\_\_)

Q19. How much probability do you think there is for long term environmental disasters in many countries due to an accident at a nuclear power plant within the next 5 years?

- 1) Very high probability
- 2) Slight probability
- 3) Not much probability
- 4) Almost no probability

Q20. How dangerous do you think nuclear power plants are to the environment?

- 1) Extremely dangerous
- 2) Fairly dangerous
- 3) Slightly dangerous
- 4) Not very dangerous
- 5) Not dangerous at all

Q21. Generally, how dangerous do you think nuclear power plants are to you and your family?

- 1) Extremely dangerous
- 2) Fairly dangerous
- 3) Slightly dangerous
- 4) Not very dangerous
- 5) Not dangerous at all

Q22. Have you heard of recent protests by residents of a potential site for a nuclear power plant?

- 1) Yes       ⇒ Go to Q22-1.
- 2) No        ⇒ Go to Q22-2.

Q22-1. How interested were you in the protest?

- 1) Extremely interested
- 2) Somewhat interested
- 3) Somewhat uninterested
- 4) Extremely uninterested

Q22-2. What is your opinion of the protest?

- 1) Strongly support
- 2) Somewhat support
- 3) Neither support nor oppose
- 4) Somewhat oppose
- 5) Strongly oppose

Q23. Who do you think should be in the leadership position in selecting a suitable site for a nuclear power plant, the government or a private expert organization?

- 1) Government
- 2) Private expert organization
- 3) Both

Q24. If a nuclear power plant is to be built in your neighborhood, how should you be compensated?

- 1) Individual residents should be financially compensated.
- 2) Guaranty residents' employment or livelihood
- 3) Expand welfare facilities, such as schools and hospitals
- 4) Expand manufacturing infrastructure, such as roads and factories
- 77) Other (Which method? \_\_\_\_\_)

Q25. If the area you are living in is selected as the most suitable location for a nuclear power plant, how would you react to the building of the nuclear power plant?

- 1) Strongly support       ⇒ Go to Q26.
- 2) Somewhat support     ⇒ Go to Q26.
- 3) Neither support nor oppose ⇒ Go to Q26.

- 4) Somewhat oppose                      ⇒ Go to Q25-1.
- 5) Strongly oppose                      ⇒ Go to Q25-1.

Q25-1. What is the most important reason for your opposition?

- 1) The results of scientific research and investigation can't be trusted.
- 2) The decisions of the government or agency can't be trusted
- 3) The environment surrounding the area can be contaminated or destroyed.
- 4) The opinions of the area residents will be excluded in the decision making process.
- 5) The expectation of economic loss including lower property value, destruction of residents' livelihood, etc.
- 6) The compensation will not be sufficient.
- 7) Safety concerns
- 77) Other (Why?: \_\_\_\_\_)

Q25-2. If the government is determined to build a nuclear power plant in the area, what is the most desirable action that the area's residents should take?

- 1) Directly complain or protest to the government
- 2) Resolve through civic organization

Q25-3. Do you think it's desirable to use illegal means, if necessary, to resolve the issue?

- 1) Yes
- 2) No

Q25-4. If the government is determined to build a nuclear power plant in the area, what is the most advisable action that the government should take, compensation or persuasion?

- 1) Compensation
- 2) Persuasion

Q26. When the government plans to build a nuclear power plant in certain area, who should the government consult with?

- 1) Local government
- 2) Organization representing residents
- 3) All residents
- 4) Civic organization

Q27. If the area residents are divided, some supporting and some opposing the nuclear power plant, what is the most advisable way to resolve the issue?

- 1) Local legislature or city council decides
- 2) Resident representative organization decides
- 3) Decided by residents' vote
- 4) Central government decides

Q28. How would you respond if a nuclear power plant was built in your neighborhood?

- 1) I will oppose even if economic benefits are promised
- 2) I will support if economic benefits are promised
- 3) I will support even if economic benefits are not promised

Q29. If a nuclear power plant were to be built near your neighborhood, how much beneficial or harmful would it be to the following?

	Very beneficial	Somewhat beneficial	No impact	Somewhat harmful	Very harmful	Don't know
a. Residents' income	1	2	3	4	5	8
b. Residents' employment	1	2	3	4	5	8
c. Residents' health	1	2	3	4	5	8
d. Relationship between residents	1	2	3	4	5	8
e. Local patriotism	1	2	3	4	5	8
f. Development of local economy	1	2	3	4	5	8
g. Area's natural environment	1	2	3	4	5	8

### III. The following questions are about radioactive waste (treatment plant).

Q30. Do you think the following statements about radioactive waste are accurate or inaccurate?

	Accurate	Inaccurate	Don't know
a. The radioactive waste from a nuclear power plant can explode like an atomic bomb if not managed properly	1	2	8
b. Radioactive waste is produced after taking an X-ray or cancer treatment at a hospital	1	2	8
c. There is radioactivity everywhere in this world in its natural state	1	2	8
d. Although it will take a very long time, radioactive waste from the nuclear power plant will lose its radioactivity naturally	1	2	8

Q31. Please select your opinion on the following statements about radioactive waste.

	Strongly agree	Agree	Disagree	Strongly disagree	Don't know
a. The danger from radioactive waste from nuclear power plants will last for thousands of years	1	2	3	4	8
b. Radioactive waste can be treated safely using high-technology methods	1	2	3	4	8
c. The areas around radioactive waste treatment plant are so contaminated life can't exist	1	2	3	4	8



d. The radioactive waste from nuclear power plants in Korea are being well-managed	1	2	3	4	8
e. If a radioactive waste treatment plant is constructed in my neighborhood, I will oppose it regardless of the financial benefits	1	2	3	4	8

Q32. How safe do you think the radioactive wastes in our country are?

- 1) Very safe
- 2) Somewhat safe
- 3) Somewhat unsafe
- 4) Very unsafe

Q33. What do you think is the best way to respond to the safety concerns of the radioactive waste in our country?

- 1) Reinforce safety regulations
- 2) Protest and file complaints with responsible agencies
- 3) Resolve the issue through civil activist organizations
- 7) Other (How? \_\_\_\_\_)

Q34. In your opinion, should our county build more radioactive waste treatment plants, maintain the status quo, or reduce radioactive waste treatment plants?

- 1) Build more nuclear power plants ⇒ Go to Q34-1.
- 2) Maintain the current state ⇒ Go to Q34-2.
- 3) Reduce nuclear power plants ⇒ Go to Q34-2.

Q34-1. Do you agree to the building of a nuclear power plant in your neighborhood?

- 1) Yes
- 2) No

Q34-2. What is the reason?

- 1) The results of scientific research and investigation can't be trusted.
- 2) The decisions of the government or agency can't be trusted.
- 3) The environment surrounding the area can be contaminated or destroyed.
- 4) The opinions of the area residents will be excluded in the decision making process.
- 5) The expectation of economic loss including lower property value, destruction of residents' livelihood, etc.
- 6) The compensation will not be sufficient.
- 7) Safety concerns
- 77) Other (Why? \_\_\_\_\_)

Q35. How much probability do you think there is for long term environmental disaster in many countries due to an accident at a radioactive waste treatment plant within the next 5 years?

- 1) Very high probability
- 2) Slight probability
- 3) Not much probability
- 4) Almost no probability

Q36. Generally, how dangerous is a radioactive waste treatment plant to the environment?

- 1) Extremely dangerous
- 2) Fairly dangerous
- 3) Slightly dangerous
- 4) Not very dangerous
- 5) Not dangerous at all

Q37. Generally, how dangerous do you think the radioactive waste treatment plant is to you and your family?

- 1) Extremely dangerous
- 2) Fairly dangerous
- 3) Slightly dangerous
- 4) Not very dangerous
- 5) Not dangerous at all

Q38. Have you heard of recent protest by residents of a potential site for a radioactive waste treatment plant?

- 1) Yes       ⇒ Go to Q38-1.
- 2) No        ⇒ Go to Q38-2.

Q38-1. How interested were you in the protest?

- 1) Extremely interested
- 2) Somewhat interested
- 3) Somewhat uninterested
- 4) Extremely uninterested

Q38-2. What is your opinion of the protest?

- 1) Strongly support
- 2) Somewhat support
- 3) Neither support nor oppose
- 4) Somewhat oppose
- 5) Strongly oppose

Q39. Who do you think should be in the leadership position in selecting a suitable site for a radioactive waste treatment plant, the government or a private expert organization?

- 1) Government
- 2) Private expert organization
- 3) Both

Q40. If a radioactive waste treatment plant is to be built in your neighborhood, how should you be compensated?

- 1) Individual residents should be financially compensated.
- 2) Guaranty residents' employment or livelihood
- 3) Expand welfare facilities, such as schools and hospitals
- 4) Expand manufacturing infrastructure, such as roads and factories
- 77) Other (Which method? \_\_\_\_\_)

Q41. If the area you are living in is selected as the most suitable location for a radioactive waste treatment plant, how would you react to the building of the radioactive waste treatment plant?

- 1) Strongly support                      ⇒ Go to Q42.
- 2) Somewhat support                    ⇒ Go to Q42.
- 3) Neither support nor oppose        ⇒ Go to Q42.
- 4) Somewhat oppose                    ⇒ Go to Q41-1.
- 5) Strongly oppose                      ⇒ Go to Q41-1.

Q41-1. What is the most important reason for your opposition?

- 1) The results of scientific research and investigation can't be trusted.
- 2) The decisions of the government or agency can't be trusted
- 3) The environment surrounding the area can be contaminated or destroyed.
- 4) The opinions of the area residents will be excluded in the decision making process.
- 5) The expectation of economic loss including lower property value, destruction of residents' livelihood, etc.
- 6) The compensation will not be sufficient.
- 7) Safety concerns
- 77) Other (Why?: \_\_\_\_\_)

Q41-2. If the government is determined to build a radioactive waste treatment plant in the area, what is the most desirable action that the area's residents should take?

- 1) Directly complain or protest to the government
- 2) Resolve through civic organization

Q41-3. Do you think it's desirable to use illegal means, if necessary, to resolve the issue?

- 1) Yes
- 2) No

Q41-4. If the government is determined to build a radioactive waste treatment plant in the area, what is the most advisable action that the government should take, compensation or persuasion?

- 1) Compensation
- 2) Persuasion

Q42. When the government plans to build a radioactive waste treatment plant in certain area, who should the government consult with?

- 1) Local government
- 2) Organization representing residents
- 3) All residents
- 4) Civic organization

Q43. If the area residents are divided, some supporting and some opposing the radioactive waste treatment plant, what is the most advisable way to resolve the issue?

- 1) Local legislature or city council decides
- 2) Resident representative organization decides
- 3) Decided by residents' vote
- 4) Central government decides

Q44. How would you respond if a radioactive waste treatment plant was built in your neighborhood?

- 1) I will oppose even if economic benefits are promised
- 2) I will support if economic benefits are promised
- 3) I will support even if economic benefits are not promised

Q45. If a radioactive waste treatment plant were to be built near your neighborhood, how much beneficial or harmful would it be to the following?

	Very beneficial	Somewhat beneficial	No impact	Somewhat harmful	Very harmful	Don't know
a. Residents' income	1	2	3	4	5	8
b. Residents' employment	1	2	3	4	5	8
c. Residents' health	1	2	3	4	5	8
d. Relationship between residents	1	2	3	4	5	8
e. Local patriotism	1	2	3	4	5	8
f. Development of local economy	1	2	3	4	5	8
g. Area's natural environment	1	2	3	4	5	8

**IV. The following questions are about your personal information**

Q46. What is your gender? (Interviewer: Please record the gender of respondent without asking.)

- 1) Male
- 2) Female

Q47. What is your current age?

\_\_\_\_\_ years old

Q48. What is your marital status?

- 1) Never married
- 2) Married
- 3) Divorced
- 4) Separated
- 5) Widowed

Q49. Which region of the country are you from?

- 1) Seoul
- 2) Gyeonggi-do (including Incheon)
- 3) Gangwon-do
- 4) Chungcheong-do (including Daejeon)
- 5) Jeolla-do (including Gwangju)
- 6) Gyeongsang-do (including Busan, Daegu, Ulsan)
- 7) Jeju-do
- 8) North Korea
- 77) Other (Where? \_\_\_\_\_)

Q50. What is the highest level of school you have attended?

- 0) No formal school                      ⇒ Go to Q51.
- 1) Elementary school
- 2) Junior high school
- 3) High school
- 4) Junior college (Two or three-year course)
- 5) College (Four-year course)
- 6) Graduate school

Q50-1 Did you graduate from this school, or are you currently attending?

- 1) Graduated
- 2) Dropped out
- 3) Currently attending

Q51. What is your employment status?

- 1) Unemployed           ⇒ Go to Q52.
- 2) Employed             ⇒ Go to Q51-1.

Q51-1. What is your occupation?

- 1) Professional
- 2) Management
- 3) Clerical
- 4) Sales
- 5) Service
- 6) Technical
- 7) Manual labor
- 8) Agricultural or Fishery
- 77) Other (Specify: \_\_\_\_\_)

Q52. What is your average monthly gross income? Please state all of your pre-tax income, including base pay, bonus, extra pay, property income and etc. (For occupations such as farming, divide annual income by 12 and check the appropriate box.)

- 1) No income
- 2) Less than 500,000 won
- 3) 500,000 won ~ 990,000 won
- 4) 1,000,000 won ~ 1,490,000 won
- 5) 1,500,000 won ~ 1,990,000 won
- 6) 2,000,000 won ~ 2,490,000 won
- 7) 2,500,000 won ~ 2,990,000 won
- 8) 3,000,000 won ~ 3,490,000 won
- 9) 3,500,000 won ~ 3,990,000 won
- 10) 4,000,000 won ~ 4,490,000 won
- 11) 4,500,000 won ~ 4,990,000 won
- 12) 5,000,000 won ~ 5,490,000 won
- 13) 5,500,000 won ~ 5,990,000 won
- 14) 6,000,000 won ~ 6,490,000 won
- 15) 6,500,000 won ~ 6,990,000 won
- 16) 7,000,000 won ~ 7,490,000 won
- 17) 7,500,000 won ~ 7,990,000 won
- 18) 8,000,000 won ~ 8,490,000 won
- 19) 8,500,000 won ~ 8,990,000 won
- 20) 9,000,000 won ~ 9,490,000 won
- 21) 9,500,000 won ~ 9,990,000 won
- 77) More than 10 million won (How much? \_\_\_\_\_)

Q53. What is the average monthly gross income of your household? Please include incomes of every household member residing in the same residence including yourself. (For occupations such as farming, divide annual income by 12 and check the appropriate box.)

- 1) No income
- 2) Less than 500,000 won
- 3) 500,000 won ~ 990,000 won
- 4) 1,000,000 won ~ 1,490,000 won
- 5) 1,500,000 won ~ 1,990,000 won
- 6) 2,000,000 won ~ 2,490,000 won
- 7) 2,500,000 won ~ 2,990,000 won
- 8) 3,000,000 won ~ 3,490,000 won
- 9) 3,500,000 won ~ 3,990,000 won
- 10) 4,000,000 won ~ 4,490,000 won
- 11) 4,500,000 won ~ 4,990,000 won
- 12) 5,000,000 won ~ 5,490,000 won
- 13) 5,500,000 won ~ 5,990,000 won
- 14) 6,000,000 won ~ 6,490,000 won
- 15) 6,500,000 won ~ 6,990,000 won
- 16) 7,000,000 won ~ 7,490,000 won
- 17) 7,500,000 won ~ 7,990,000 won
- 18) 8,000,000 won ~ 8,490,000 won
- 19) 8,500,000 won ~ 8,990,000 won
- 20) 9,000,000 won ~ 9,490,000 won
- 21) 9,500,000 won ~ 9,990,000 won
- 77) More than 10 million won (How much? \_\_\_\_\_)

Q54. If our society was divided into seven different classes with 1 being the lowest class and 7 being the highest class, in which class do you think you belong?

Lowest class <-----> Highest class  
 1                      2                      3                      4                      5                      6                      7

**THE FOLLOWING QUESTIONS ARE ASKED TO INTERVIEWERS**

※ Please answer these questions right after the interview is completed with no respondents present.

Q55. Please answer following questions about the interviewer.

- 1) Name: \_\_\_\_\_
- 2) Sex:                      1) Male    2) Female
- 3) Age:                      \_\_\_\_\_
- 4) Telephone number: \_\_\_\_\_
- 5) E-mail address:        \_\_\_\_\_
- 6) Interviewer ID:        \_\_\_\_\_

Q56. Please fill in the respondent's name, telephone, and address to be used for post-interview confirmation.

- 1) Name:                      \_\_\_\_\_
- 2) Telephone number: \_\_\_\_\_
- 3) Address:                      \_\_\_\_\_

Q57. Interview date and time

Year\_\_\_\_\_    Month\_\_\_\_\_    Day\_\_\_\_\_

FROM: Hour\_\_\_\_\_    Minute\_\_\_\_\_    (a.m./p.m)

TO: Hour\_\_\_\_\_    Minute\_\_\_\_\_    (a.m./p.m)

Q58. Interview location?

- 1) Respondent's house
- 2) Respondent's workplace
- 3) Vacant lot in the village
- 4) Senior center
- 5) Community center
- 77) Other (Where? \_\_\_\_\_)

Q59. Final result of the interview

- 1) Complete                      ⇒ Go to Q60.
- 2) Incomplete                      ⇒ Go to Q59-1.



Q59-1. Why wasn't the interview completed?

- 1) Respondent refused to answer
- 2) Respondent couldn't be found
- 3) Respondent couldn't answer (illness, age, etc.)
- 4) Respondent wasn't available
- 77) Other (What? \_\_\_\_\_)

Q60. Did the respondent receive the free gift prepared for the interview?

- 1) Yes
- 2) No       ⇒ Go to Q60-1.

Q60-1. Why didn't the respondent receive the free gift?

- 1) Didn't need it
- 2) Didn't want it
- 3) Didn't have opportunity to give the free gift
- 4) Didn't prepare it.