

Research on the development of an energy supply chain ESG index

Questionnaire request

- **Purpose of the questionnaire:**

Kyushu University (Japan) are conducting research on the development of an energy supply chain ESG (Environment, Social, Governance) index. This study sets out to explore the relative importance of the ESG factors related to energy supply chain. Based on your opinion, we aim to establish an ESG assessment framework of energy supply chain.

- **The reason why you are selected as a respondent:**

We assume that the intentions of influential institutions or organizations globally engaged in ESG-relevant activities will contribute to the future supply chain. As your institution or organization is an NGO with consultative status with ECOSOC (United Nations Economic and Social Council) at least, we have selected you for this study and would be happy to share your opinions from an ESG perspective.

- **How the content of the answer will be handled:**

Responses to this questionnaire will be used only for academic purposes and as reference material in the development of the Social Life Cycle Assessment (S-LCA) methodology with the United Nations. The names of the organizations and companies that responded to the questionnaire will be kept anonymous when the results of the analysis are presented in external publications.

[For inquiries regarding the purpose and content of the survey, please contact below]

Managi-lab, Kyushu University (<http://www.managi-lab.com/english.html>)

Person in charge: Kento Komatsubara

E-mail: komatsubara.kento.290@s.kyushu-u.ac.jp

TEL: +81-92-802-3401

1 / 10

10%

Next

Powered by

See how easy it is to [create a survey](#).

[Privacy](#) & [Cookie Notice](#)

1. Introduction

This study sets out to explore the relative importance of the factors that create the energy supply chain. We would

Research on the development of an energy supply chain ESG index

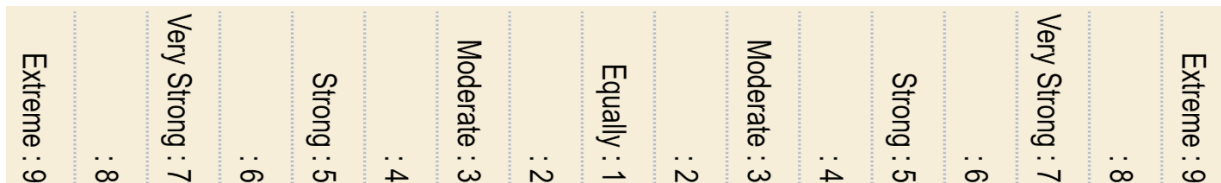
like to hear your opinion from the perspective of NGOs. Based on your opinion, we aim to establish an assessment of overall framework of energy.

2. How to answer

This questionnaire asks you to evaluate the relative importance of categories and items that constitute each category on a scale from 1 “equally important” to 9 “extremely more important” for each of them. Please evaluate the relative importance of the categories and items, supposing that you are assessing the international energy supply chain (from extraction of primary energy to energy utilization).

Below is an example of how to answer the question. The example compares the relative importance of “Land” (item A) to “Water” (item B) when assessing the international energy supply chain. If you think Land (item A) is moderately more important compared to Water (item B), then please choose below.

Question Title



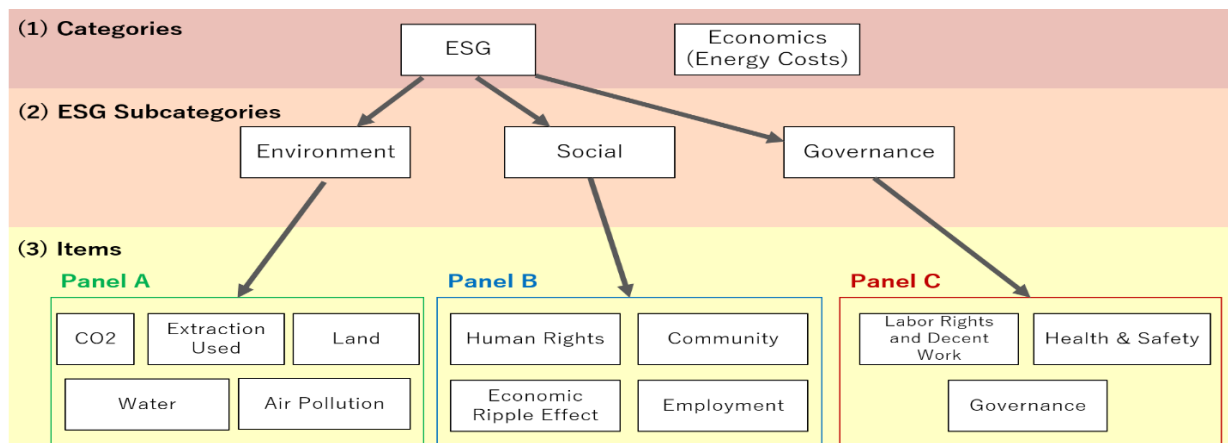
Example of a question and an answer (A is moderately more important than B)



Each item is categorized as shown in the following figure and table. Please answer the relative importance of each item by paired comparison. For the details about the explanation of each item, please see the attachment sheet.

Question Title

Items and categories



2 / 10

20%

Q1

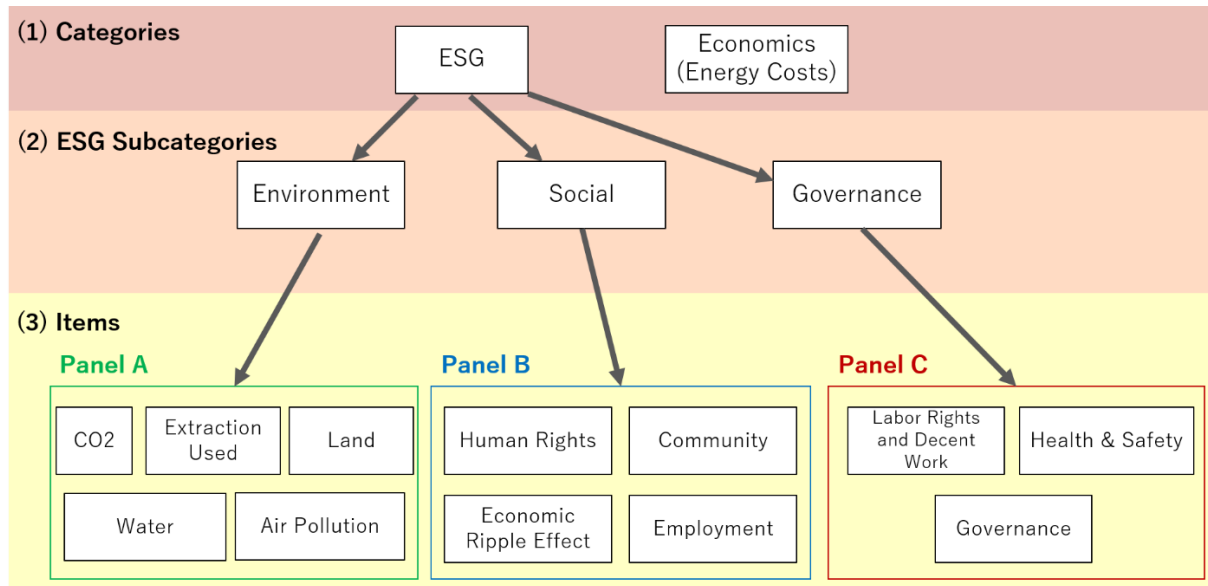
Please make a careful evaluation of which category/item is more important and how much, supposing that you are assessing the international supply chain of overall energy.

Research on the development of an energy supply chain ESG index

[Relative importance among categories]

Question Title

Items and categories



Question Title

Brief explanation of categories and items

(1) Categories	
ESG	Impacts on ESG when generating 1kWh of electricity. This category consists of 3 subcategories: Environment, Social, and Governance, and each of those subcategories includes the items in Panel A, Panel B, and Panel C, respectively.
Economics (Energy Costs)	Costs required for generating 1kWh of electricity (US\$).

Question Title

* You are comparing (A)**ESG** and (B)**Economics**. Which do you consider more important, and to what extent?

9 (A) ESG

1

9 (B) Economics

3 / 10

30%

Prev Next

Powered by

See how easy it is to [create a survey](#).

Q2

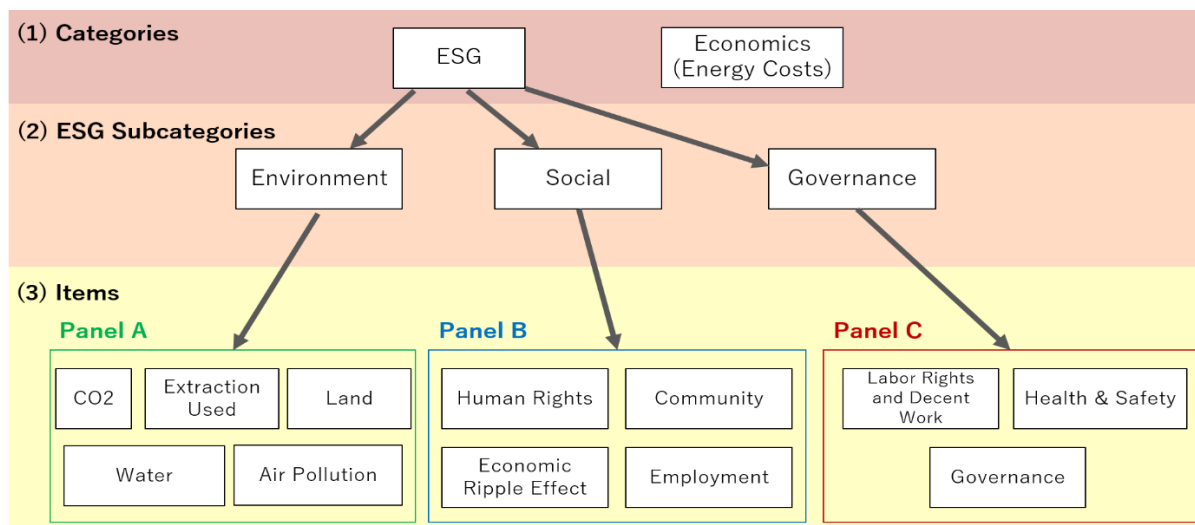
Please make a careful evaluation of which category/item is more important and how much, supposing that you are assessing the international supply chain of overall energy.

Research on the development of an energy supply chain ESG index

[Relative importance among ESG subcategories]

Question Title

Items and categories



Question Title

Brief explanation of categories and items

(2) ESG subcategories	
Environment	Impacts on Environment when generating 1kWh of electricity. This subcategory includes the 5 items in Panel A.
Social	Impacts on Social when generating 1kWh of electricity. This subcategory includes the 4 items in Panel A.
Governance	Impacts on Governance when generating 1kWh of electricity. This subcategory includes the 3 items in Panel A.

Question Title

* You are comparing (A)**Environment** and (B)**Social**. Which do you consider more important, and to what extent?

9 (A) Environment

1

9 (B) Social

Question Title

* You are comparing (A)**Environment** and (B)**Governance**. Which do you consider more important, and to what extent?

9 (A) Environment

1

9 (B) Governance

Question Title

* You are comparing (A)**Social** and (B)**Governance**. Which do you consider more important, and to what extent?

9 (A) Social

1

9 (B) Governance

4 / 10

40%

Q3

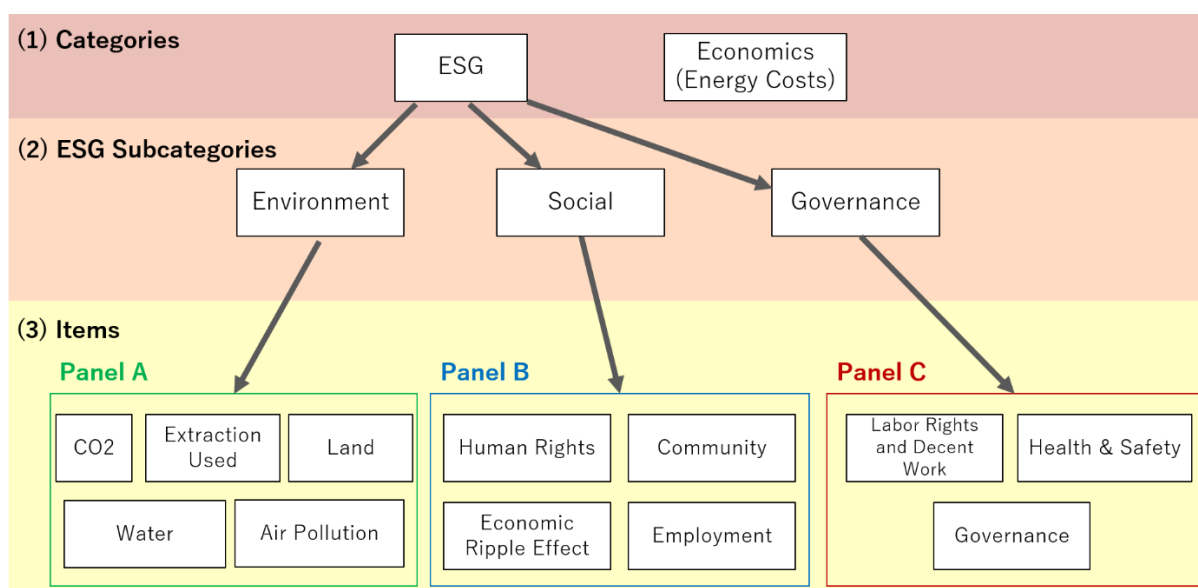
Please make a careful evaluation of which category/item is more important and how much, supposing that you are assessing the international supply chain of overall energy.

Research on the development of an energy supply chain ESG index

[Relative importance among items in Environment subcategory]

Question Title

Items and categories



Question Title

Brief explanation of categories and items

Environment (Panel A)	
CO2	Greenhouse gas (GHG) emitted when generating 1kWh of electricity (kg CO2-equivalent).
Extraction Used	Resource extraction necessary for generating 1kWh of electricity (kg).
Land	Land requirements for generating 1kWh of electricity (m ²).
Water	Water resource consumed for generating 1kWh of electricity (m ³).
Air Pollution	Increase in PM2.5 concentration by generating 1kWh of electricity (kg ⁻¹).

Question Title

* You are comparing (A)**CO2** and (B)**Extraction Used**. Which do you consider more important, and to what extent?

9 (A) CO2

1

9 (B) Extraction Used

Question Title

* You are comparing (A)**CO2** and (B)**Land**. Which do you consider more important, and to what extent?

9 (A) CO2

1

9 (B) Land

Question Title

* You are comparing (A)**CO2** and (B)**Water**. Which do you consider more important, and to what extent?

9 (A) CO2

1

9 (B) Water

Question Title

* You are comparing (A)**CO2** and (B)**Air Pollution**. Which do you consider more important, and to what extent?

9 (A) CO2

1

9 (B) Air Pollution

Question Title

* You are comparing (A)**Extraction Used** and (B)**Land**. Which do you consider more important, and to what extent?

Research on the development of an energy supply chain ESG index

9 (A) Extraction Used

1

9 (B) Land

Question Title

* You are comparing (A)**Extraction Used** and (B)**Water**. Which do you consider more important, and to what extent?

9 (A) Extraction Used

1

9 (B) Water

Question Title

* You are comparing (A)**Extraction Used** and (B)**Air Pollution**. Which do you consider more important, and to what extent?

9 (A) Extraction Used

1

9 (B) Air Pollution

Question Title

* You are comparing (A)**Land** and (B)**Water**. Which do you consider more important, and to what extent?

9 (A) Land

1

9 (B) Water

Question Title

* You are comparing (A)**Land** and (B)**Air Pollution**. Which do you consider more important, and to what extent?

9 (A) Land

1

9 (B) Air Pollution

Question Title

* You are comparing (A)**Water** and (B)**Air Pollution**. Which do you consider more important, and to what extent?

9 (A)

Water

1

9 (B) Air Pollution

5 / 10

50%

Prev Next

Powered by

Q4

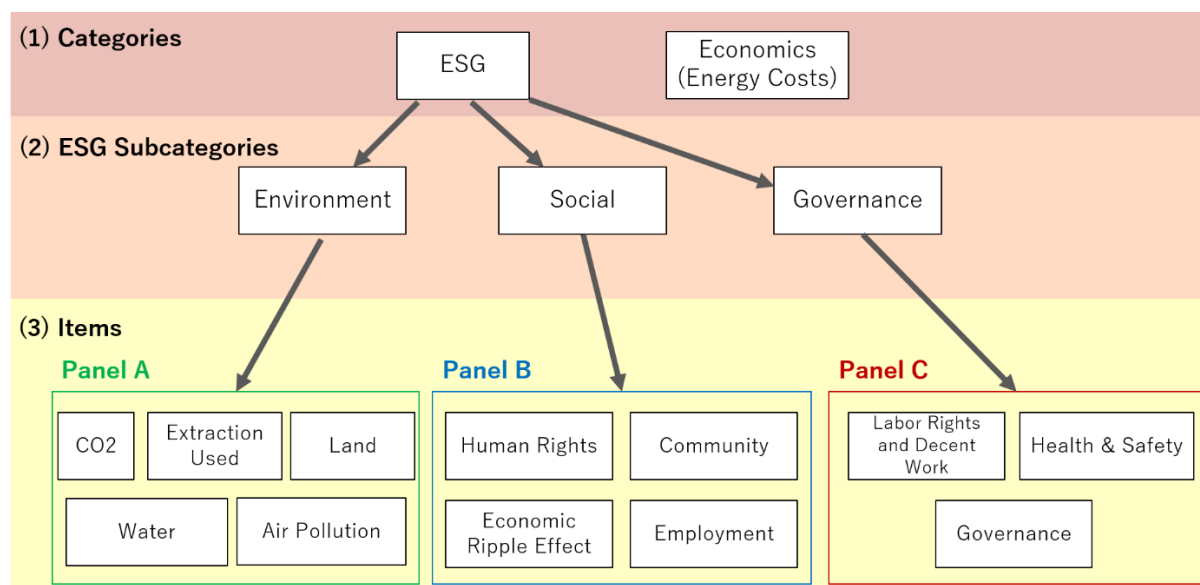
Please make a careful evaluation of which category/item is more important and how much, supposing that you are assessing the international supply chain of overall energy.

【Relative importance among items in Social subcategory】

Question Title

Research on the development of an energy supply chain ESG index

Items and categories



Question Title

Brief explanation of categories and items

Social (Panel B)	
Human Rights	Impacts on human rights when generating 1kWh of electricity (Risk Hours ¹).
Community	Impacts on community infrastructure when generating 1kWh of electricity (Risk Hours ¹).
Economic Ripple Effect	Total economic ripple effect around the world by generating 1kWh of electricity (US\$).
Employment	Employment created when generating 1kWh of electricity (people, around the world).

Question Title

* You are comparing (A)**Human Rights** and (B)**Community**. Which do you consider more important, and to what extent?

9 (A) Human Rights

1

9 (B) Community

Question Title

* You are comparing (A)**Human Rights** and (B)**Economic Ripple Effect**. Which do you consider more important, and to what extent?

9 (A) Human Rights

1

9 (B) Economic Ripple Effect

Question Title

* You are comparing (A)**Human Rights** and (B)**Employment**. Which do you consider more important, and to what extent?

9 (A) Human Rights

1

9 (B) Employment

Question Title

* You are comparing (A)**Community** and (B)**Economic Ripple Effect**. Which do you consider more important, and to what extent?

9 (A) Community

1

9 (B) Economic Ripple Effect

Research on the development of an energy supply chain ESG index

Question Title

* You are comparing (A)**Community** and (B)**Employment**. Which do you consider more important, and to what extent?

9 (A) Community

1

9 (B) Employment

Question Title

* You are comparing (A)**Economic Ripple Effect** and (B)**Employment**. Which do you consider more important, and to what extent?

9 (A) Economic Ripple Effect

1

9 (B) Employment

6 / 10

60%

Research on the development of an energy supply chain ESG index

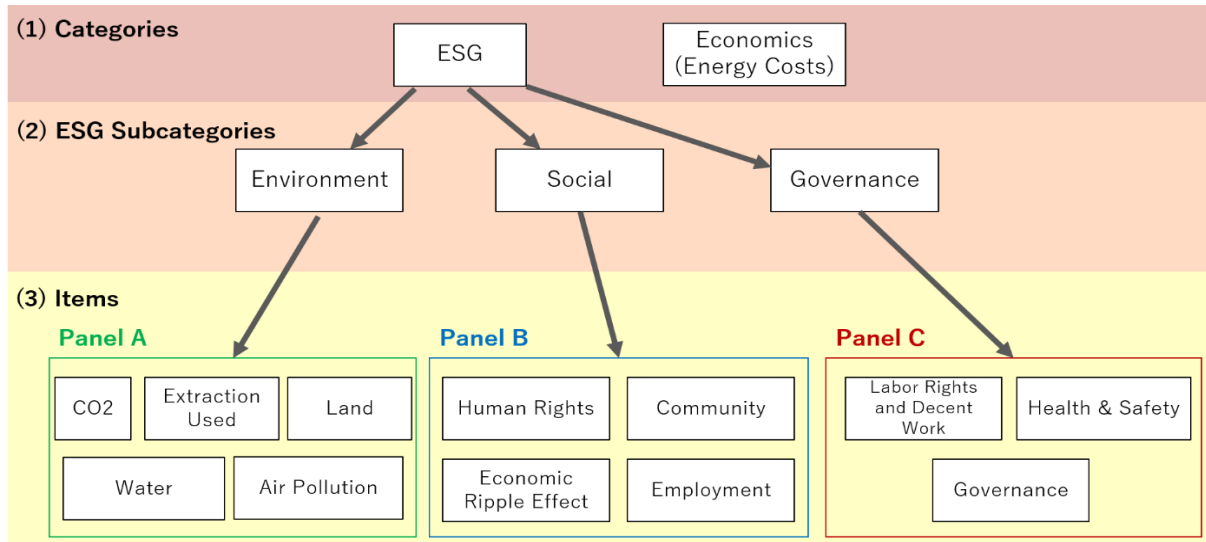
Q5

Please make a careful evaluation of which category/item is more important and how much, supposing that you are assessing the international supply chain of overall energy.

[Relative importance among items in Governance subcategory]

Question Title

Items and categories



Question Title

Brief explanation of categories and items

Governance (Panel C)	
Labor Rights and Decent Work	Impacts on labor rights and decent work when generating 1kWh of electricity (Risk Hours ¹).
Health & Safety	Impacts on workers' health and safety when generating 1kWh of electricity (Risk Hours ¹).
Governance	Impacts on governance when generating 1kWh of electricity (Risk Hours ¹).

Question Title

* You are comparing (A)**Labor Rights and Decent Work** and (B)**Health & Safety**. Which do you consider more important, and to what extent?

9 (A) Labor Rights and Decent Work

1 9 (B) Health & Safety

Question Title

* You are comparing (A)**Labor Rights and Decent Work** and (B)**Governance**. Which do you consider more important, and to what extent?

9 (A) Labor Rights and Decent Work

1 9 (B) Governance

Question Title

* You are comparing (A)**Health & Safety** and (B)**Governance**. Which do you consider more important, and to what extent?

9 (A) Health & Safety

1 9 (B) Governance

7 / 10

70%

Q6

【S-LCA evaluation items】

Brief explanation of categories and items

9 (A) Human Rights	1	9 (B) Governance
--------------------	---	------------------

Research on the development of an energy supply chain ESG index

Question Title

* You are comparing (A)**Community** and (B)**Labor Rights and Decent Work**. Which do you consider more important, and to what extent?

9 (A) Community 1 9 (B) Labor Rights and Decent Work

Question Title

* You are comparing (A)**Community** and (B)**Health & Safety**. Which do you consider more important, and to what extent?

9 (A) Community 1 9 (B) Health & Safety

Question Title

* You are comparing (A)**Community** and (B)**Governance**. Which do you consider more important, and to what extent?

9 (A) Community 1 9 (B) Governance

Question Title

* You are comparing (A)**Labor Rights and Decent Work** and (B)**Health & Safety**. Which do you consider more important, and to what extent?

9 (A) Labor Rights and Decent Work 1 9 (B) Health & Safety

Question Title

* You are comparing (A)**Labor Rights and Decent Work** and (B)**Governance**. Which do you consider more important, and to what extent?

9 (A) Labor Rights and Decent Work 1 9 (B) Governance

Question Title

* You are comparing (A)**Health & Safety** and (B)**Governance**. Which do you consider more important, and to what extent?

9 (A)
Health &
Safety 1 9 (B) Governance

8 / 10

Research on the development of an energy supply chain ESG index

Q7

Question Title

If you have any comments for each item, please describe them.

9 / 10

90%

Prev Next

We welcome and **support research and development projects** in the fields of environment, society, human rights, health, public infrastructure management and economics. Without research, development projects and education, the decisions of decision-makers and the adopted legislation will be poor and inadequate for the sustainable development of the environment and society.

Research on the development of an energy supply chain ESG (Environment, Social, Governance) index led by Kyushu University is very important.

The answers in the questionnaire are based on our long-term **research and evaluation of investments and management of public infrastructure**. We are developing **the standards of management of public infrastructure for sports and leisure**. We support the training of managers and professionals in the field of physical culture development, sports for all and "social management" of public infrastructure.

We express our willingness to cooperate in the fields of research and R&D projects in the field of environment, society and management of public infrastructure for sports and leisure.

Research on the development of an energy supply chain ESG index

Thank you for your response

Please fill out the following profile to the extent you can (Institution/Organization and Country is required.). Your information is going to be used for academic purposes only, and the names of respondents' institutions or organizations will be kept anonymous at the time of publication.

You can withdraw this consent. Please get in touch with the below if you have any requests or inquiries regarding the correction or deletion of personal information.

Person in charge: Kento Komatsubara

E-mail: komatsubara.kento.290@s.kyushu-u.ac.jp

TEL: +81-92-802-3401

Question Title

* **Institution/Organization:**

Question Title

Position:

Question Title

Name:

Question Title

Email:

Question Title

* **Country/Region:**

10 / 10

100%

Prev