

NEC Corp.
Env. Management, Div.
Ryosuke UGO



The next discussion - Debating -

☆Debating process

Step1: Select your option: theme (1) - (5)

Step2: Check your opinion:

□Approval , □Opposite

Step3: How are you conducting the logics

for your opinion?

Please try to follow the processes as the bellow.

- 1 The clarification of the reason for your opinion
- ② Collecting information or data supporting your opinion taking account for the following key-words:
 - -technology, -cost, -environmental resources or loadings,
 - management resources (people, capital, resources), etc.
- 3 Also, Collecting information or data supporting your opposite opinion
- Speculating on the opposite side logics
- (5) Establishment of your conclusion

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The Today's discussion - Debating -

★Let's consider the following issue?©Themes for the debate:

' Are the following technologies or systems effective or ineffective for CO2 reduction?'

(1)Carbon tax

(Ap.) Masato Miyachi, Ryunosuke Sakaki, Yohei Sato

(Op.) Wang Hao, Elsa Thorselius

(2) Carbon trading system

(Ap.) Kenji ONO, Takahiro Sakuma

(Op.) Kazuya Suzuki, Yuma Murakami

(3) Eco-point to replace TV, air-conditioner

(Ap.) Takuma Iino, Ponou Josiane (Op.) Hiroki Tashiro, Parinda Thayamhul

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Debating Team making and time table

OTeam making: 1 team – 2 members

* Please, selection your partner each other taking account of your schedule or situation

OTime table: 60 minutes for 1 debating

<Step 1> Initial insistence from both teams

5 minutes : The 1st team presentation 5 minutes : The 2nd team presentation

<Step 2> Debating

3 minutes: The 1st team - Additional and opposite explanation and questions 3 minutes: The 2nd team - Answer and additional explanation, questions

* Repetition of 3~5 times

<Step 3> Discussion with audience

10 - 15 minutes : questions from audience and answers from teams

<Step 4> Judgment of audience and comments from coordinators

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Evaluating of the debating

Evaluation for the Debate as follows.

1.The peer-evaluation

Please, carry out the peer-evaluation

(1) Evaluation of the discussion

Excellent: S, Good: A, Normal: B, Poor: C

2. Facilitators' evaluation

(1) Evaluation of discussion

Excellent: S, Good: A, Normal: B, Poor: C

(2) Evaluation of audience

Appropriate or Good comments : A,

Simple criticism : B, No comment : C,

The total evaluation will be the above peer-evaluation and the facilitators' evaluation.

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Data for the case study

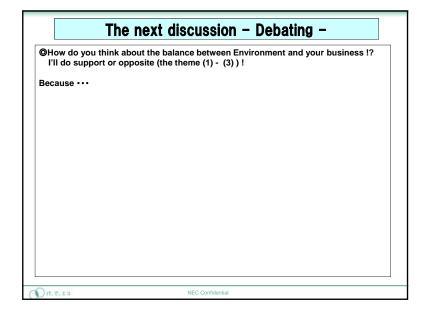
CO2 reduction elements	Content	Values	Unit
① Transportation	Car	0.270	kg / person•km
③Use of goods	CD production	0.330	kg / unit amount
4 Logistics	Truck : 2-tons type	0.338	kg/t·km ※
©Use of machines	Power of Desk-top type PC	59.100	w
	Power of Display	24.000	w
	Power of Server	411.111	w
①Use of inter-net	Inter-net line	0.120	kg / unit usage

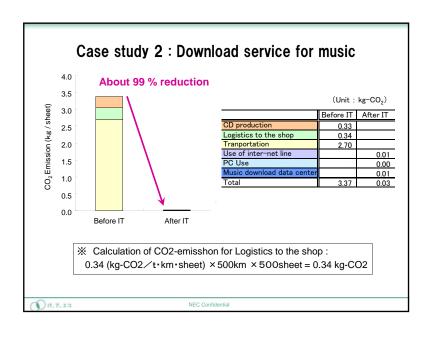
% Unit: kg-CO2/t•km(•sheet)

This means the amount of CO2 per unit truck load (1t), per unit distance (1 km) and per unit volume (in this case 1-sheet CD).

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