

# Guideline for activities for reducing CO<sub>2</sub> emissions

Activities throughout the entire supply chain  
from your company

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**Fujitsu limited**

**Corporate Purchasing Unit**

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# “Global warming” raising an alarm to companies

## ■ Paris Climate Agreement entered into force on November 4, 2016



- ✓ All countries agreed to limit global temperature rise to well below 2 °C, and given the grave risks, to strive for 1.5 °C by 2050.
- ✓ “Target setting for reducing CO<sub>2</sub> emissions”, “Review of the target”, and “Report to the United Nations every five years” are required.



## ■ Required drastic social transformation

1. "Energy saving", "Reducing CO<sub>2</sub> emissions", and "Tightening of regulations on carbon taxation"
2. Expansion of renewable energy usage
3. Changes in market rules  
 (“ESG investment”, “Withdrawal of investment”, and “Pricing of carbon”)
4. Creation of future technology



Influence to companies



- Companies will need to make their policies change drastically and to make extra efforts.
- The issues to have to tackle throughout the entire supply chain will increase.

# Activities for reducing CO<sub>2</sub> emissions conducted by companies

## Expansion of the activities from your company toward external companies step-by-step

### 1. Decision-making

Decision of activities as your company



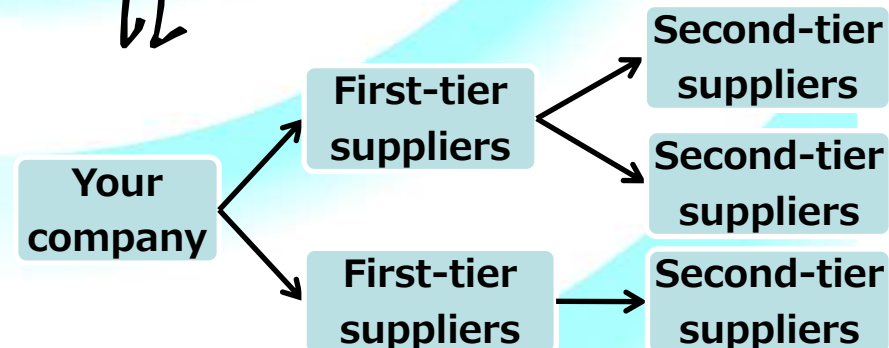
### 2. Practical activities

- Setting of "Numerical targets", "Policies", and "Plans"
- Management of the PDCA



### 3. Activity developments

- Request for practical activities to suppliers
- Activity developments toward external companies



# 1. Decision-making

I know how important for companies to reduce CO<sub>2</sub> emissions, but .....



“Manpower”, “Goods” and “Capital” are required for the activities.



First step to activities:

- Approval of management layer
- Establishment of decision-making as a company

Environmental policy

- Prevent global warming
- \_\_\_\_\_

President & CEO  
**Tarou Fujitsu**



## Examples for activities by whole company:

### 1) Strengthening of company structure:

Establishment of activity structure, Cooperation with related department, Prize-giving of activities, Introduction of incentive

### 2) Reflection to business strategy:

Realization of “Business risk avoidance” and “Creation of business opportunities” by activities for reducing CO<sub>2</sub> emissions

### 3) Cooperative structure with external organization:

- Cooperation with suppliers
- Information Exchange with environmental communities

## 2. Practical activities: Procedure for target setting

### 1. Setting of **Activity contents**

- 1) Extract feasible activities in-house.
- 2) Decide more suitable activities from the extractions.

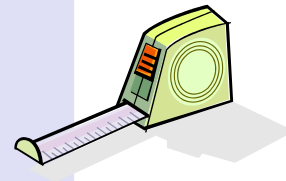


### 2. Selection of **Progress Indexes** (Numerical data)

Select CO<sub>2</sub> emissions data, or data leading to CO<sub>2</sub> emissions directly.

(e.g. Power usage, Fuel consumption)

- \* If it is difficult, select data leading to CO<sub>2</sub> emissions indirectly.  
(e.g. Control of time for lights-out, Holding of company training)



### 3. Setting of **Numerical targets**

Set numerical targets specifying activity term and scope.

- \* If it is difficult, set activity plans or policies.



# 2. Practical activities:

## Examples for activity contents and progress indexes

Select activities to be conducted and progress indexes to be controlled.

Activity items	Activity contents	Progress indexes
Saving energy (reducing lighting power consumption)	Switch off unnecessary lighting/ install LED	Implementation rate/Installation rate /Energy-saving rate
	Light off during break times	Time for lights off/Implementation rate
Saving energy (reducing common-use facility power consumption)	Stop of servers on holidays	Stopping time/Stopping rate
	Reduce overtime hours/ specify days on which all employees leave work at the same time	Implementation rate per department
	Utility time limits on reception/ conference room	Utility time/Energy-saving rate
Saving energy (reducing air-conditioning power consumption)	Appropriate temperature setting of air-conditioning systems	Implementation rate/Implementation period
	Installation of rooftop greening/ wall greening	Implementation rate/Greening area per building
Saving energy (promoting of renewable energy)	Installation of green electricity systems	Installation rate
Saving energy (innovative changes of lifestyles)	Encouragement of bicycle commuting of employees	Number of employees taking part in the initiative/Implementation rate
	Promotion of eco-driving	Implementation rate/ELV installation rate
Preserving biodiversity (preservation of CO <sub>2</sub> - absorbing resources)	Implementation of forest- preservation activities	Number of activities/Number of participants/Forestation land area/Number of trees planted
Conservation of paper resources	Promotion of paperless	Reduction volume/Implementation rate
Promotion of environmental awareness	Raise awareness by in-house education	Number of attendance/Attendance rate/ Test pass rate

## 2. Practical activities :

Example applied to the time when setting of numerical targets is difficult

### Set Activity plans, Policies, or Autonomous targets

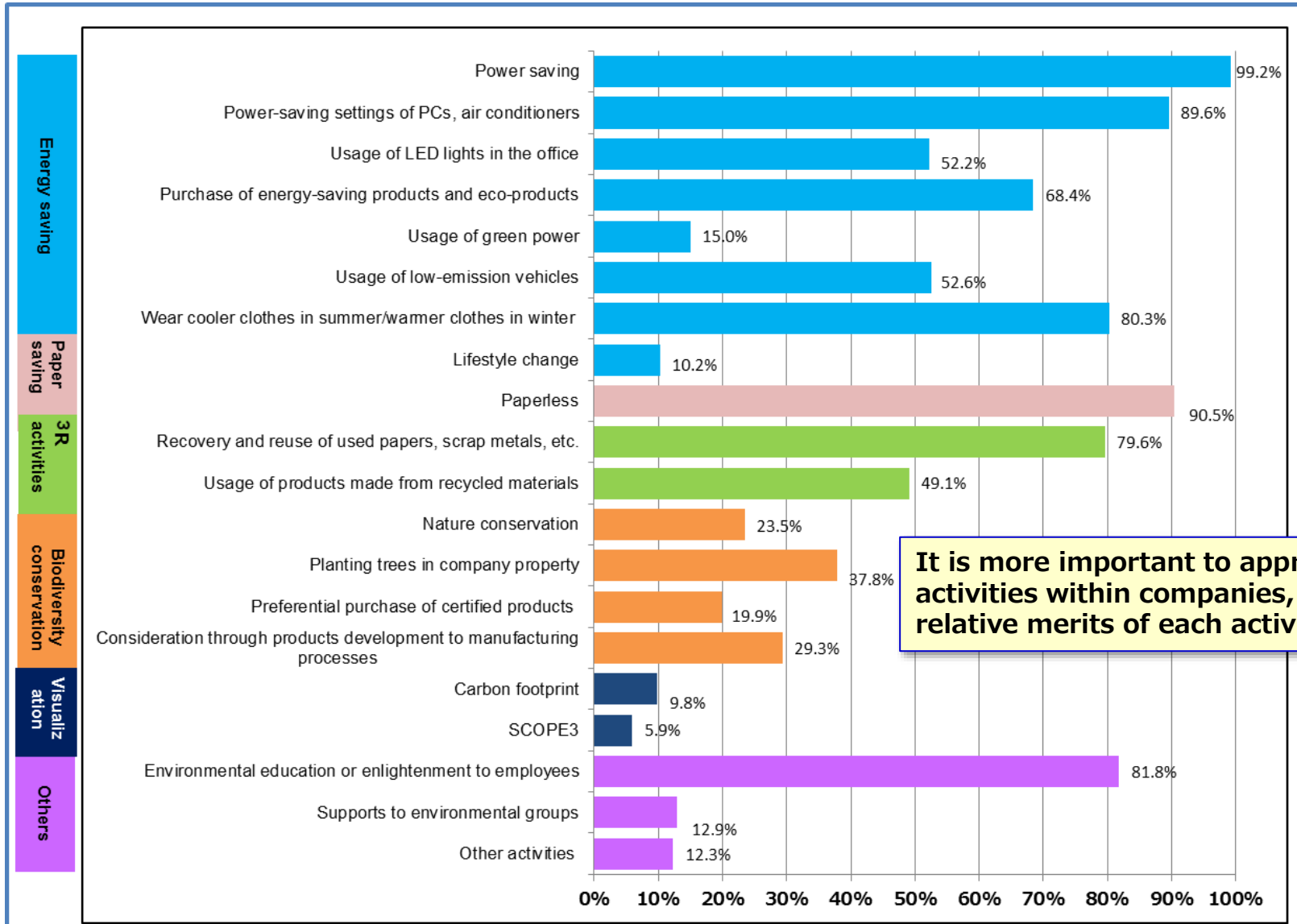
Activities	➔	Methods
Construction of promotion system of the activities		<ul style="list-style-type: none"><li>- Plan-making before the construction</li><li>- Selection of progress indexes of activities for milestone</li></ul>
Construction of cloud systems (Intensive treatment with servers)		Examples: <ol style="list-style-type: none"><li>1. Approval of activities</li><li>2. Start of working group</li><li>3. Assignment of responsible person</li><li>4. Estimate guarantee</li></ol>
Visualization of electricity usage conditions of internal company portal		Autonomous management of lighting time of illuminations, and target setting
Activities for saving energy at a tenant office		<ul style="list-style-type: none"><li>- Setting of autonomous targets or</li><li>- Setting of action policies (e.g. Contribution to energy saving activities for clients)</li></ul>



# 2. Practical activities

Reference: Fujitsu Group Stage VIII Environmental Activity Survey Form for fiscal 2016

## Conducted activities, and ratio of the number of companies conducting them



**It is more important to approach possible activities within companies, rather than relative merits of each activity.**

### 3. Activity development to outside companies

**Expansion of activities throughout the supply chain by activity development to suppliers**

#### Why is “Activity development to suppliers” important?

##### Social role of company

- Implementation of comprehensive activities throughout the entire supply chain
- Global expansion of activities throughout the supply chain

##### Business strategy

- Business opportunity (e.g. “Improvement of company value”, “Creation of innovation”)
- Environmental risk avoidance of your own company by understanding of environmental awareness of suppliers

##### Image enhancement of company

- Target for evaluation on supplier’s governance for environmental activities in several \*ESG surveys (e.g. Nikkei environmental management survey, CDP, Dow Jones, FTSE)

\*ESG : Environment, Social and Governance

# 3. Activity development to outside companies

## Examples for Activity development to suppliers

- Description in your “Green Procurement Direction”
- Holding a briefing session to suppliers
- Request by individual business meetings or by email
- Reflection of correspondent agreement



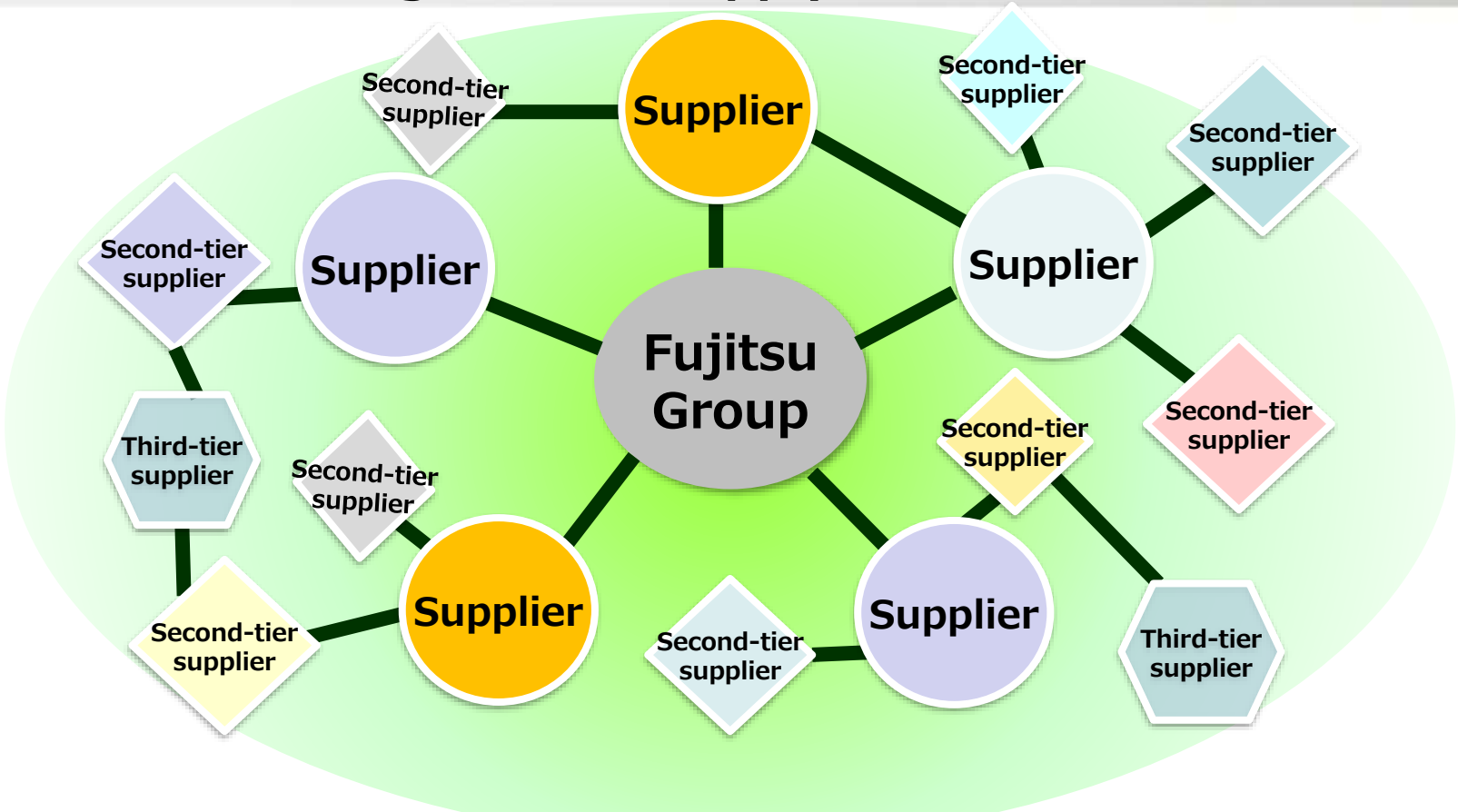
If you want, you can use this guideline for the following purpose:

- Explanation to your suppliers
- Request for practical activities

Fujitsu group requires suppliers to implement activities by “Fujitsu Group Green Procurement Direction” posted on the following URL.

<http://www.fujitsu.com/global/about/procurement/green/>


# Final request: Conducting activities for reducing CO<sub>2</sub> emissions throughout the supply chain



Fujitsu Group alone has insufficient power for tackling environmental issues, e.g. global warming. However, conducting the activities throughout the entire supply chain enables great effects of overall society for reducing CO<sub>2</sub> emissions.



**You are kindly requested to cooperate with the activity promotion.**



**FUJITSU**

shaping tomorrow with you