1

OBAYASHI CORPORATION

	Companies' approach	
Background and purpose of accounting	 When the Kyoto Protocol became effective in 2005, we examined and publicized our emissions including part of our supply chain in order to determine the greenhouse gas emissions within our company and find what we needed to do. Since then, we have been accounting every year in order to check on the effectiveness of our measures. Understanding emissions helps to know our progress and to establish important sectors, so that establishing long-term goals is possible. 	大ノスなど? 日本の第二 第二 第二
Utilization of accounting results	 The accounting results are used to determine which measures to emphasize and as material to discover priorities for the measures. With regard to external use, we are showing how much construction companies emit and describe the reasons for our measures. We also use the accounting results when environmental considerations are a requirement for bids. We use the results to show the types of measures we take and the reasons for them. 	Attack Attack Image and attack Image attack Image attack I
Benefits of accounting	 In order to contribute to global climate change countermeasures, we can clarify what is important from the point of view of emissions and what we should do. 	
□ Internal system for accounting	 The headquarters Environment Department collects overall data. With regard to materials, energy used by buildings based on design, energy used at work sites, waste, and labor related data, the data is collected by the various departments responsible for these areas. 	

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2

	Companies' approach	
Efforts to reduce supply chain emissions	 Construction material production: Changing to an alternative to cement (development and use of a low-carbon concrete that reduces CO₂ emissions during production by 80 percent), resource-saving design that reduces the use of materials. Construction: Energy-saving tower cranes and elevators, and reduced boring for civil engineering projects. Operation of customer buildings: Energy-saving design, etc. 	
□ Issues in supply chain emissions accounting	 Primary subcontractors can provide data, but it is difficult for others. The accounting results show that 80 of calculations are estimates and only 20 are from actual results. We sometimes question if this is meaningful. Other than CO₂, it is also necessary to examine the affects of resources, recycling and costs. Costs are especially important; otherwise, the results cannot be used as management criteria. It is necessary to make data collection as automatic as possible and with as little effort as possible. Basically, with respect to monetary data, collecting data from forms for checking is possible. When more accurate data is collected, there is a tendency for emissions to increase. Improving accounting methods leads to higher emissions, so it is difficult to assess the effectiveness of reduction measures. Our current mechanism does not allow for sufficient assessment, and we can only know the overall figures. 	
Other remarks	•	

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3

Category	Accounting methods	
	Activity data	Emission factor
Category 1: Purchased goods and services	<construction material="" production=""> Procurement of major materials (collected by the head office, weight basis) <construction> Diesel and electricity usage (sample about 40 percent of all construction sites to collect data and extrapolate) </construction> </construction>	<construction material="" production=""> CO₂ emission factor when producing materials (weight basis) <construction> Emissions coefficient of greenhouse gas emissions calculations, reporting and publicizing system </construction> </construction>
Category 4: Transportation and delivery (upstream)	Main material weight x Average transportation distance	 CO₂ emission factor per ton-km
Category 5: Waste generated in operations	<disposal> Waste disposal amount <transport> Main material weight x Average transportation distance </transport> </disposal>	<disposal> Processing and disposal CO₂ emission factor <transport></transport> CO₂ emission factor per ton-km </disposal>
Category 7: Employee commuting	Fuel usage when two employees use one vehicle for a round trip commute of 30 km	 Emissions coefficient of greenhouse gas emissions calculations, reporting and publicizing system
Category 11: Use of sold products	 Construction area by building type x Energy usage per area unit by building type 	 Emissions coefficient of greenhouse gas emissions calculations, reporting and publicizing system