

## Environmental Management System (EMS)

### Results of External Assessment of EMS

Audited term	FY2021.3
Certification body	Japan Testing Center for Construction Materials
Implementation period	2020 July 8 to 2020 July 17
Assessed items	Head Office, Tokyo Main Office, Tohoku Branch, Shikoku Branch, Kobe Branch, East Japan Robotics Center, Technical Research Institute
Number of deficiencies	Serious deficiencies: 0 case Minor deficiencies: 1 case
Number of items under observation	3 cases

### Results of Internal Audit of EMS

Audited term	FY2021.3
Audited items	All branches and departments
Number of audits Planned/ Implemented (Implementation rate)	231cases/237cases (97.5%) Of which, permanent divisions: 45 cases / 45 cases (100%) Of which, construction offices: 177 cases / 182 cases (97.3%) Of which secretariats: 9 cases / 10 cases (90%)
Number of internal auditors (active)	532 persons
Number of deficiencies	1 case
Number of cases under observation	94 cases

### Environmental Targets and Results

Environmental Targets	Unit	FY	FY	FY	FY	FY2021.3			FY2022.3
		2017.3	2018.3	2019.3	2020.3	EMS Target	Actual	Evaluation	Target
<b>Reducing CO2 Emissions</b>									
CO2 emissions reduction rate from construction sites (base year 2014.3)	%	16.8	8.0	18.8	16.6	Over 15.0	28.3	○	Over 15.0
CO2 emissions reduction rate of designed & build buildings <sup>1</sup>		23	26	20	34	Over 25	23	×	Over 25
Fuel efficiency driving training rate at construction sites		55	63	71	70	Over 70	60	×	Over 80
<b>Reducing Resource Consumption</b>									
Water consumption at construction sites	m3/ billions of yen	1800	1450	2050	1320	Below 1700	1720	△	Below 1500
Civil Engineering Building Construction		790	890	590	1010	Below 850	700		Below 800
<b>Reducing Waste Emissions</b>									
Amount of construction waste emissions (excluding sludge) per completed work from new building construction work	t / billions of yen	142	147	131	178	Below 140	127	○	Below 140
Confirmation rate of facilities for processing	%	75	75	84	84	100 <sup>*3</sup> Over 60 <sup>*4</sup>	95.5 90.1	○	100 <sup>*3</sup> Over 85 <sup>*4</sup>
<b>Implementing Green Procurement</b>									
Green procurement ratio for construction materials and supplies <sup>2</sup>	%	41	43	43	43	Over 55	48	△	Over 55

Notes ○ : Targets achieved  
△ : Targets have yet to be achieved, but results have improved from the previous fiscal year  
× : Targets have yet to be achieved

\*1 Figure represent comparisons with the CASBEE reference values, with the scope of aggregation including all building uses.

\*2 The ratio of the green procurement value to the total procurement value of all monitored items for the green procurement ratio.

\*3 Regulation Area

\*4 Outside the regulation area

## Deficiencies<sup>\*5</sup> and Complaints

Items	Unit	FY2017.3	FY2018.3	FY2019.3	FY2020.3	FY2021.3
Deficiencies	cases	1	6	2	3	2
Complaints	cases	1056	1229	624	513	445

\*5 Obayashi designates items as deficient and requiring management in the following cases:

- When received an administrative guidance
- When a written apology must be submitted
- When there is compensation payment
- When a government agency has submitted a recommendation to take corrective actions
- When a civil fine must be paid
- When there is a penalty involving more than a small fine

2 deficiencies of FY2021.3 were 1 case of river pollution, and 1 case of industrial water disposal. We have submitted a remedial report for avoiding these deficiencies happen again. Note that we strive to prevent conflicts for reoccurring by aptly responding to the complaints we receive and caring for the environment surrounding our sites