



## Coway Co., Ltd.

**Introduction** Korea Management Registrar has been requested by Coway to verify its greenhouse gas emissions, energy usage and solar power generation amount from the year of 2016. The verification was conducted on the organization and operation boundary and suppliers, and the results are as specified as below. This verification statement is valid from the day of publication.

- Scope**
- Organization and operation boundary:
    - √ Greenhouse gas emissions:
      - 7 Sites and emission facilities under Coway's operational control; 26 suppliers
    - √ Energy usage:
      - 7 Sites and emission facilities under Coway's operational control
    - √ Solar power generation amount:
      - 3 Sites and emission facilities under Coway's operational control; 2 suppliers
  - Verification period: 01/01/2016 ~ 12/31/2016
  - Types of Greenhouse Gases: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>
  - Verification scope: Scope 1 (direct emissions), Scope 2 (indirect emissions), Scope 3 (purchased goods and services, employee commuting)
  - Performed verification work:
    - √ Interviewing with the Yugu site manager responsible for data collection of greenhouse gas emissions
    - √ Reviewing the MRV system and process, the data gathering method for greenhouse gas emission, energy usage and solar power generation amount
    - √ Examination on raw data including information system, bills and payment statements related to verification scope
    - √ Due diligence on a part of emission factors in Yugu site
    - √ Comparative examination through on-desk review, risk analysis, observation and inspection, etc.
  - Level of assurance: Limited Assurance

**Standard & Guidance** ISO 14064-1 Greenhouse gases -- Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (2006), ISO 14064-3 Greenhouse gases -- Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions (2006), WRI/WBCSD GHG Protocol (2004), Verification guidelines for operation of greenhouse gas and energy target

management scheme (Notification No. 2016-104, Korea Ministry of Environment),  
 KMR GHG TM01 - GHG & energy verification manual and procedure,  
 IPCC Guidelines for National Greenhouse Gas Inventories (2006),  
 International Standard on Assurance Engagements 3000 (Revised) – ‘Assurance Engagements other than Audits or Reviews of Historical Financial Information’

## Results

### 1. Greenhouse Gas Emissions

(Unit: ton CO<sub>2</sub>-eq.)

Year	Object site	Company Emissions				Purchased Goods and Services			Total Emissions (Scope1+2+3)
		Direct Emissions (Scope1)	Indirect Emissions (Scope2)	Employee Commuting (Scope3)	Total Emissions (Scope1+2+3)	Direct emissions (Scope1)	Indirect emissions (Scope2)	Total value chain (Scope3)	
<b>2016</b>	<b>Total</b>	<b>401</b>	<b>5,261</b>	<b>49</b>	<b>5,710</b>	<b>4,539</b>	<b>36,454</b>	<b>40,994</b>	<b>46,704</b>
2016	Ilbo buil.	-	382	-	382	-	-	-	382
2016	Seoul Univ. Env+Tec. Lab.	3	1,585	-	1,588	-	-	-	1,588
2016	Cosmetic Lab.	-	183	-	183	-	-	-	183
2016	Logistics Center (Yugu)	-	328	-	328	-	-	-	328
2016	Yugu Fac.	351	1,814	-	2,165	-	-	-	2,165
2016	Incheon Fac.	20	626	32	677	-	-	-	677
2016	Pocheon Fac.	27	343	17	387	-	-	-	387
2016	Saemyoung Co., Ltd.	-	-	-	-	187	352	539	539
2016	ShinWon Tube Co., Ltd.	-	-	-	-	86	857	943	943
2016	R.B.Korea Corporation	-	-	-	-	85	707	792	792
2016	Wapion Co., Ltd.	-	-	-	-	36	733	769	769
2016	Eunsung Industrial Co., Ltd.	-	-	-	-	121	204	326	326
2016	Eunsung Chemical Co., Ltd.	-	-	-	-	76	70	146	146
2016	Elensys Co., Ltd.	-	-	-	-	47	508	556	556
2016	CDT Corporation	-	-	-	-	15	201	216	216
2016	KJ Electronics Co., Ltd.	-	-	-	-	42	1,889	1,930	1,930
2016	QBS Technologies Co., Ltd.	-	-	-	-	101	174	276	276
2016	EPS Korea Co., Ltd.	-	-	-	-	588	18,216	18,804	18,804
2016	Kwangsang Co., Ltd.	-	-	-	-	93	2,043	2,136	2,136
2016	Dongland Plastic Co., Ltd.	-	-	-	-	154	2,154	2,308	2,308
2016	Jehsung Co., Ltd.	-	-	-	-	176	3,904	4,080	4,080
2016	JeongyongSG Co., Ltd.	-	-	-	-	2,172	515	2,687	2,687
2016	Handok Clean Tech Co., Ltd.	-	-	-	-	79	1,848	1,927	1,927
2016	ID System Co., Ltd.	-	-	-	-	67	255	322	322
2016	Haain Electronics Co., Ltd.	-	-	-	-	40	365	405	405
2016	Samsung Tech Co., Ltd.	-	-	-	-	14	85	99	99
2016	Shinwon Electronics Co., Ltd.	-	-	-	-	15	15	29	29
2016	Daelim Metal	-	-	-	-	22	62	83	83
2016	Stormtec Co., Ltd.	-	-	-	-	71	394	465	465
2016	SinWooMTech Co., Ltd.	-	-	-	-	79	254	333	333
2016	Younam Electronic Co., Ltd.	-	-	-	-	93	334	426	426
2016	Yooljin Prime Co., Ltd.	-	-	-	-	6	88	94	94
2016	CSE Company Limited	-	-	-	-	75	227	303	303

## 2. Energy Consumption

(unit: GJ)

Year	Object site	Scope1 (Consume Fuel)		Scope2 (Consume Electricity)	Scope3	Total Consumption (workplaces)
		Fixed Combustion	Moving Combustion	Indirect Emissions	Commuting Bus	
<b>2016</b>	<b>Total</b>	<b>6,580</b>	<b>283</b>	<b>108,312</b>	<b>699</b>	<b>115,874</b>
2016	Ilbo buil.	-	-	7,859	-	7,859
2016	Seoul Univ. Env. Tec. Lab.	59	-	32,629	-	32,688
2016	Cosmetic Lab.	-	-	3,770	-	3,770
2016	Logistics Center (Yugu)	-	-	6,752	-	6,752
2016	Yugu Fac.	6,006	-	37,355	-	43,361
2016	Incheon Fac.	387	-	12,885	452	13,724
2016	Pocheon Fac.	129	283	7,061	247	7,720

## 3. Solar Power Generation amount

(unit: KW)

Year	Object site	Solar Power Generation amount	Solar Power Generation amount from cooperators	Total Solar Power Generation amount
<b>2016</b>	<b>Total</b>	<b>174,709</b>	<b>79,056</b>	<b>253,765</b>
2016	Pocheon Fac.	57,814	-	57,814
2016	Yugu Fac.	63,076	-	63,076
2016	Incheon Fac.	53,819	-	53,819
2016	Jehsung Co., Ltd.	-	39,230	39,230
2016	ID System Co., Ltd.	-	39,826	39,826

### Conclusions

KMR verified the greenhouse gas emissions, energy usage and solar power generation amount from the year of 2016 of Coway and its suppliers as described above. Based on the procedures performed, nothing has come to the attention of the practitioner that causes the practitioner to believe that the subject matter information is not prepared, in all material respects, in accordance with the verification purpose and the applicable criteria.

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Korea Management Registrar

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KMR is an ETS & TMS verification institution authorized by Republic of Korea Government.  
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