

**Announcement for
Enforcing GHG Accounting and Registration
for the First Batch of GHG Emission Sources**

Announced Date: 2016.01.07

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1040111710D of Environmental Protection Administration of Executive Yuan

Pursuant to paragraph 1 of article 16 of the Greenhouse Gas Reduction and Management Act, Environmental Protection Administration hereby adopts and promulgates the following announcement.

Article 1

The first batch of the designated emission sources are listed in the Annex.

Article 2

The designated emission sources shall complete annual GHG accounting and registration by August 31 of the preceding year. With regard to 2015 GHG emissions, the designated emission sources shall complete GHG accounting and registration by the end of August 2016.

Annex

Designated Emission Sources List

Any facilities satisfied with any of the following conditions are the designated emission sources.

Batch	Industry	Process	Conditions	Notice
1st	Electric generation	with steam turbine	process with steam turbines by using fossil fuels	<ul style="list-style-type: none"> Any facilities with any of the conditions listed on the left shall conduct GHG emission accounting and registration by its control number. Direct GHG emissions from fossil fuel combustions shall be calculated by the following formula: Annual GHG emissions (ton CO₂e/year) =annual consumptions of raw materials/fuels, production or other levels of activities designated by the central competent
		with combined cycle	process with combined cycles by using fossil fuels	
1st	Iron and steel	with steel billets manufacturing by integrated complex system	processes of ironmaking, steelmaking, hot-rolling or cold-rolling for steel billets manufacturing.	<ul style="list-style-type: none"> Direct GHG emissions from fossil fuel combustions shall be calculated by the following formula: Annual GHG emissions (ton CO₂e/year) =annual consumptions of raw materials/fuels, production or other levels of activities designated by the central competent
		with carbon steel billets manufacturing by electric arc furnace (E.A.F)	steelmaking by EAF for carbon steel billets manufacturing with converting, extraction or continuous casting processes	
		with stainless steel billets manufacturing by electric arc furnace (E.A.F)	steelmaking by EAF for stainless steel billets manufacturing with converting, vacuum refining, extraction or continuous casting processes	
		with H-beam manufacturing	processes of hot-rolling, blasting with steel grit or grounding for H beams manufacturing	
1st	Refining	With petroleum refinery process	processes of converting crude oil into gasoline, kerosene, diesel oil, lubricating oils, paraffin wax, petroleum ether, organic solvents or other oils.	<ul style="list-style-type: none"> Direct GHG emissions from fossil fuel combustions shall be calculated by the following formula: Annual GHG emissions (ton CO₂e/year) =annual consumptions of raw materials/fuels, production or other levels of activities designated by the central competent
			with hot-rolled stainless steel coils and plates manufacturing	
1st	Cement	with clinker manufacturing	processes of grinding raw material with	

Batch	Industry	Process	Conditions	Notice
			calcium oxide (CaO), silicon dioxide (SiO ₂), aluminum oxide (Al ₂ O ₃) and iron oxide (Fe ₂ O ₃) by homogeneous components, or heating raw materials in rotary kilns to obtain hydraulic gelling material which mainly consists of calcium silicate.	authority (ton, kiloliter or kilocubic meter) × emission factor (ton/ton, kiloliter/ton, or kilocubic meter /ton) × GWP
1st	Semiconductor	with wafer manufacturing	processes in manufacturing wafers of physical vapor deposition, chemical vapor deposition, photoresist, lithography, etching, diffusion, ion implantation, oxidation or heating processes and with fluorinated gases.	<ul style="list-style-type: none"> For existing facilities, annual consumptions of raw materials/fuels, production or other levels of activities designated by the central competent authority are the data from the previous year. For new or modified facilities after this regulation is promulgated, the levels of activities are reference to the maximum of its design values.
1st	TFT-LCD	with TFT-array and color-filter manufacturing	processes manufacturing TFT-LCDs of film deposition, photolithography, etching, photoresist stripping or liquid crystal and with fluorinated gases.	
1st	Others	Others	Annual direct emissions from fossil fuel combustions exceeding 25000 tons CO ₂ e	