



IMPRESS 2: Project Contributions to CEN and ISO Standardisation

Marc Coleman / Rod Robinson

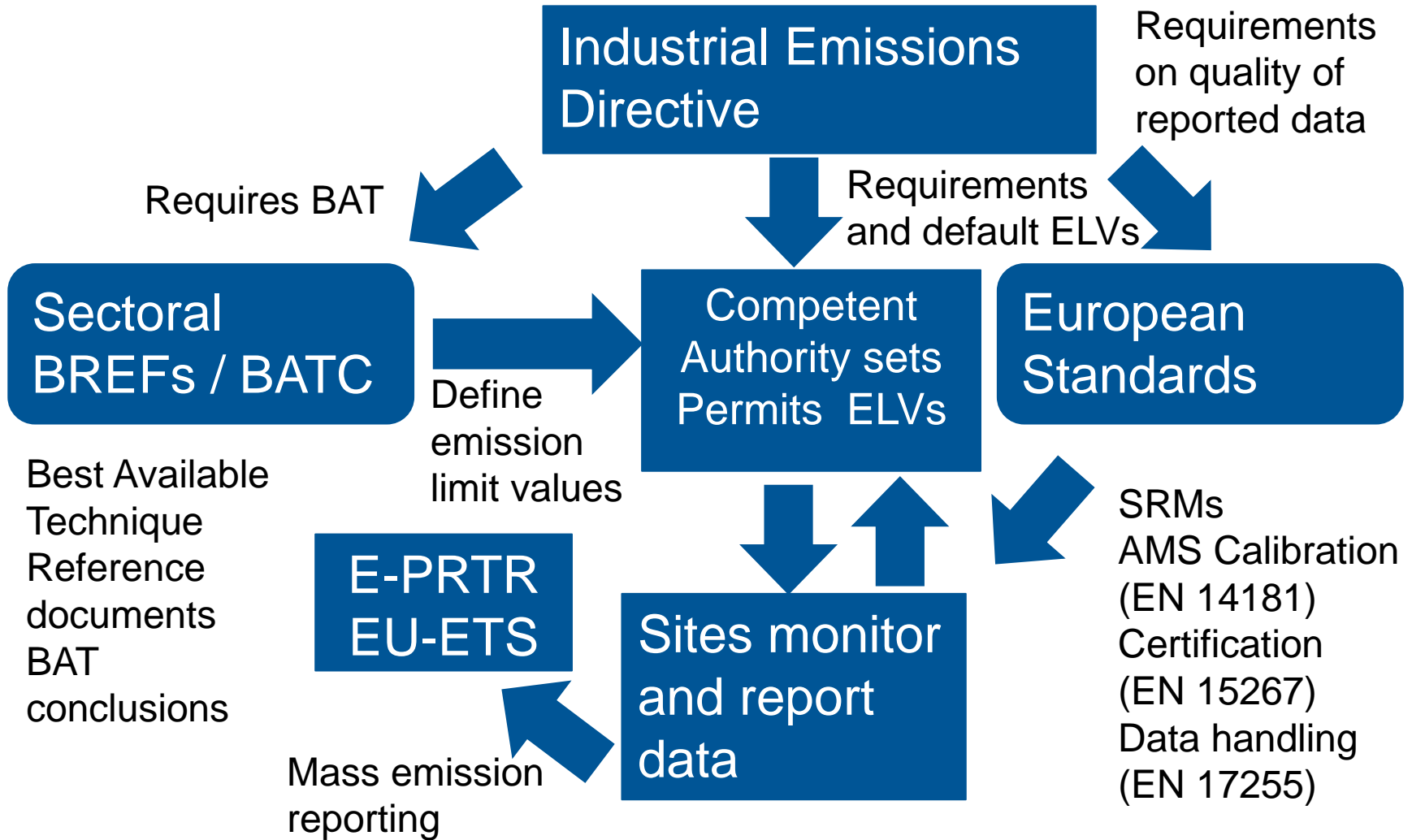
Stakeholder Workshop, 11th January 2021, virtual

Structure and role of CEN TC264

- TC 264 Scope
 - Ambient air quality
 - Emissions
 - Indoor air- work carried out in ISO
- 25 active working groups – nearly 30 standards under development
- Role of standards in ensuring quality of environmental measurements
 - All TC 264 measurement standards are validated
- Link to ISO TC 146 – Air Quality
 - Vienna agreement
- Mandated standardisation from EU commission

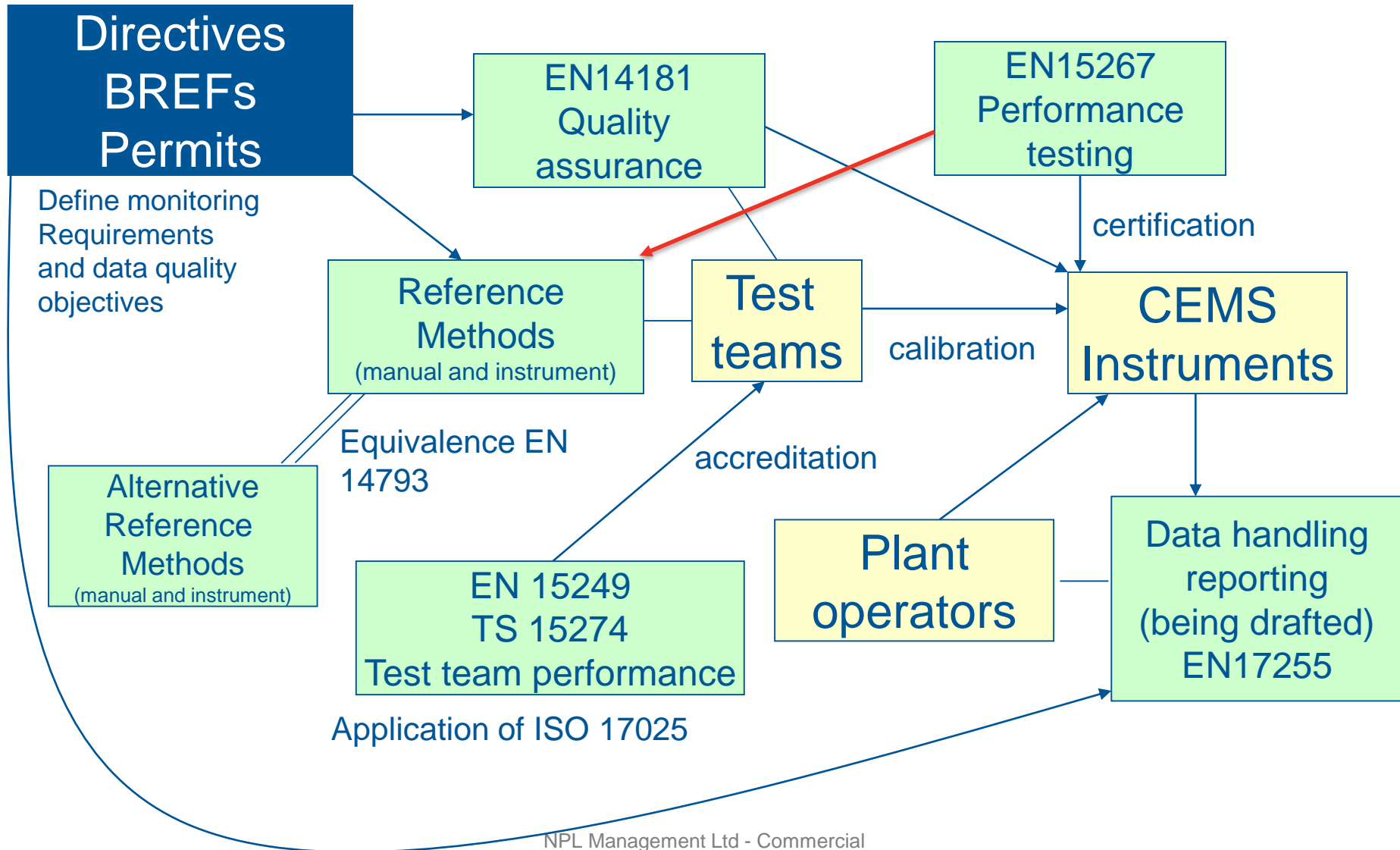


Emissions monitoring framework

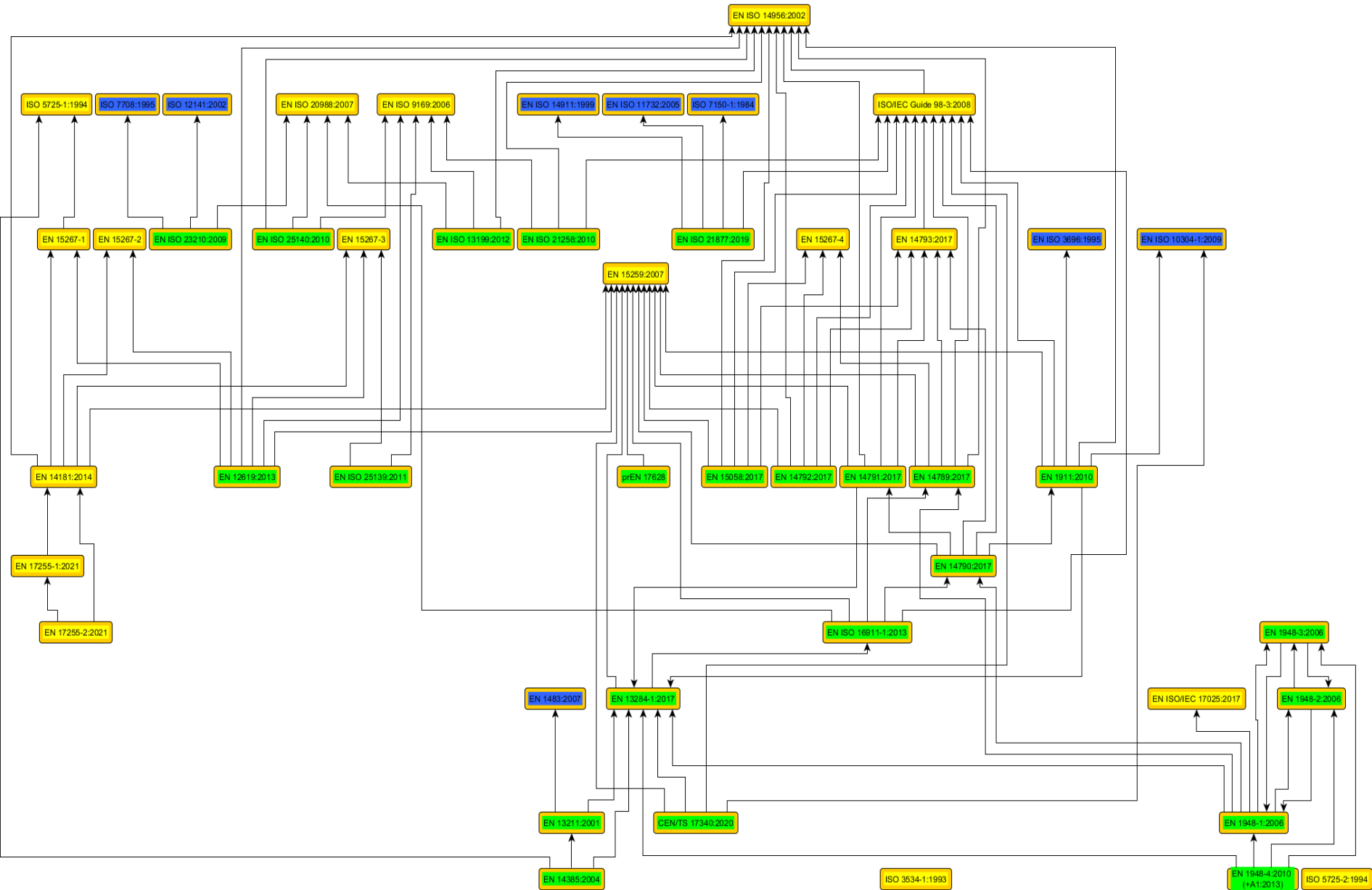


Paper on metrology of regulations and reporting – due to be submitted soon

Structure of emissions monitoring standards in Europe



Standards and regulations review



WP4 Standardisation Aims

- In terms of standard elaboration the main effort of the project was aimed at large scale industrial processes (i.e. IED regulated) with some smaller contribution in the domestic biomass combustion sector
- In terms of large industrial scale the following specific working groups were supported...

WP4 Standardisation Targets

Committee / Working Group	Scope of Work
CEN/TC 264/WG 3	HF emissions - manual method
ISO/TC 146/SC 1/WG 33	Ammonia
CEN/TC 264/WG 40	Measurement of formaldehyde emissions
CEN/TC 264/WG 36	Measurement of stack gas emissions using FTIR instruments
CEN/TC 264/WG 9	Quality assurance of automated measuring systems
CEN/TC 264/WG 45	Proficiency testing schemes for emission measurements
CEN/TC 264/Plenary	Direction of all sub-WGs
CEN/TC 264/Task Force Emissions	To advise TC 264 on standardisation needs

WP4 Standardisation Targets

Committee / Working Group	IMPRESS 2 Contribution
CEN/TC 264/WG 3	Provided the majority of the text (from Task 1.3), the convenor, and several member state experts
ISO/TC 146/SC 1/WG 33	
CEN/TC 264/WG 40	
CEN/TC 264/WG 36	
CEN/TC 264/WG 9	
CEN/TC 264/WG 45	
CEN/TC 264/Plenary	
CEN/TC 264/Task Force Emissions	

PD CEN/TS 17340:2020



BSI Standards Publication

**Stationary source emissions — Determination
of mass concentration of fluorinated compounds
expressed as HF — Standard reference method**

WP4 Standardisation Targets

Committee / Working Group	IMPRESS 2 Contribution
CEN/TC 264/WG 3	Provided the majority of the text (from Task 1.3), the convenor, and several national experts
ISO/TC 146/SC 1/WG 33	Influenced direction of standard and provided national experts
CEN/TC 264/WG 40	
CEN/TC 264/WG 36	
CEN/TC 264/WG 9	
CEN/TC 264/WG 45	
CEN/TC 264/Plenary	
CEN/TC 264/Task Force Emissions	

BS EN ISO 21877:2019



BSI Standards Publication

**Stationary source emissions – Determination
of the mass concentration of ammonia –
Manual method (ISO 21877:2019)**

WP4 Standardisation Targets

Committee / Working Group	IMPRESS 2 Contribution
CEN/TC 264/WG 3	Authored the majority of the standard (from Task 1.3), the convenor, and several national experts
ISO/TC 146/SC 1/WG 33	Influenced direction of standard and provided national experts
CEN/TC 264/WG 40	Authored significant portion of the standard (from Task 1.3), changed approach to uncertainty requirements and provided national experts
CEN/TC 264/WG 36	
CEN/TC 264/WG 9	
CEN/TC 264/WG 45	
CEN/TC 264/Plenary	
CEN/TC 264/Task Force Emissions	

CEN/TC 264/WG 40

- Standard at Formal Vote stage

AutoSave On CEN-TC264-WG40_N0108_TC_264_WI_00264176_E_13.docx - Last Modified: 19/08/2020 Marc Coleman

File Home Insert Design Layout References Mailings Review View Help Search

Read Mode Print Web Draft Focus Immersive Reader Vertical Side to Side Page Movement Show Zoom 100% One Page Multiple Pages Page Width New Window Arrange All Split View Side by Side Synchronous Scrolling Reset Window Position Switch Windows Macros Properties

NPL Official (No visible marking)

CEN/TC 264/WG 40 N 108
CEN/TC 264
Date: 2020-07
TC 264 WI 00264176.13
CEN/TC 264
Secretariat: DIN

Stationary source emissions — Manual method for the determination of the mass concentration of formaldehyde — Reference method

Emissionen aus stationären Quellen — Manuelles Verfahren zur Bestimmung der Massenkonzentration von Formaldehyd — Referenzverfahren

Emissions de sources fixes — Méthode manuelle pour la détermination de la concentration massique en formaldéhyde — Méthode de référence

ICS:

Page 1 of 45 11951 words French (France)

Type here to search

NPL Management Ltd - Commercial

WP4 Standardisation Targets

Committee / Working Group	IMPRESS 2 Contribution
CEN/TC 264/WG 3	Authored the majority of the standard (from Task 1.3), the convenor, and several national experts
ISO/TC 146/SC 1/WG 33	Influenced direction of standard and provided national experts
CEN/TC 264/WG 40	Authored significant portion of the standard (from Task 1.3), changed approach to uncertainty requirements and provided national experts
CEN/TC 264/WG 36	Provided convenor and authored standard
CEN/TC 264/WG 9	
CEN/TC 264/WG 45	
CEN/TC 264/Plenary	
CEN/TC 264/Task Force Emissions	

PD CEN/TS 17337:2019



BSI Standards Publication

**Stationary source emissions - Determination of
mass concentration of multiple gaseous species -
Fourier transform infrared spectroscopy**

WP4 Standardisation Targets

Committee / Working Group	IMPRESS 2 Contribution
CEN/TC 264/WG 3	Authored the majority of the standard (from Task 1.3), the convenor, and several national experts
ISO/TC 146/SC 1/WG 33	Influenced direction of standard and provided national experts
CEN/TC 264/WG 40	Authored significant portion of the standard (from Task 1.3), changed approach to uncertainty requirements and provided national experts
CEN/TC 264/WG 36	Provided convenor and authored standard
CEN/TC 264/WG 9	Provided convenor, drafting of Data Handling Standard (EN 17255) and drafting of revision to Certification Standard (EN 15267)
CEN/TC 264/WG 45	
CEN/TC 264/Plenary	
CEN/TC 264/Task Force Emissions	

BS EN 17255-1:2019

- Impress 2 activities on the metrology of legislation supported Part 1



BS EN 17255-2:2020

Stationary source emissions - Data acquisition and handling systems

Part 1: Specification of requirements for the handling and reporting of data

- EN 17255 will be in 4 parts
- Part 3 on performance testing – enquiry finished
- Part 4 on ongoing quality control draft being finalised



Stationary source emissions – Data acquisition and handling systems

Part 2: Specification of requirements on data acquisition and handling systems

WP4 Standardisation Targets

Committee / Working Group	IMPRESS 2 Contribution
CEN/TC 264/WG 3	Authored the majority of the standard (from Task 1.3), the convenor, and several national experts
ISO/TC 146/SC 1/WG 33	Influenced direction of standard and provided national experts
CEN/TC 264/WG 40	Authored significant portion of the standard (from Task 1.3), changed approach to uncertainty requirements and provided national experts
CEN/TC 264/WG 36	Provided convenor and authored standard
CEN/TC 264/WG 9	Provided convenor, drafting of Data Handling Standard (EN 17255) and drafting of revision to Certification Standard (EN 15267)
CEN/TC 264/WG 45	Provided text and design descriptions of mini-boiler based and mass flow control based stack simulator facilities
CEN/TC 264/Plenary	Provided chair and several national delegation leads. Gave invited presentations at annual meetings of project progress
CEN/TC 264/Task Force Emissions	Provided several national experts. Contributed to formal documents discussing: differences in national uncertainty requirements; reporting close to detection limits; original EC validation of SRMs compared to increasingly stringent emission limits

WP4 Standardisation Aims

- In terms of the domestic biomass combustion sector, the project was aimed at supporting work of TC 295 WG 5 (**Residential solid fuel burning appliances, Test methods WG**) on the topic of emission of PM including condensables, and organic compounds measurement methods
- The contribution of the Impress 2 project was to provide data on methods performances and protocols describing method set-up, in order to influence standard orientation and provide material to author new standards