

Bologna – 19 ottobre 2016

GNL: LO STATO DELL'ARTE NORMATIVO

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CIG Comitato Italiano Gas



**Ente Federato all'UNI dotato di
personalità giuridica**

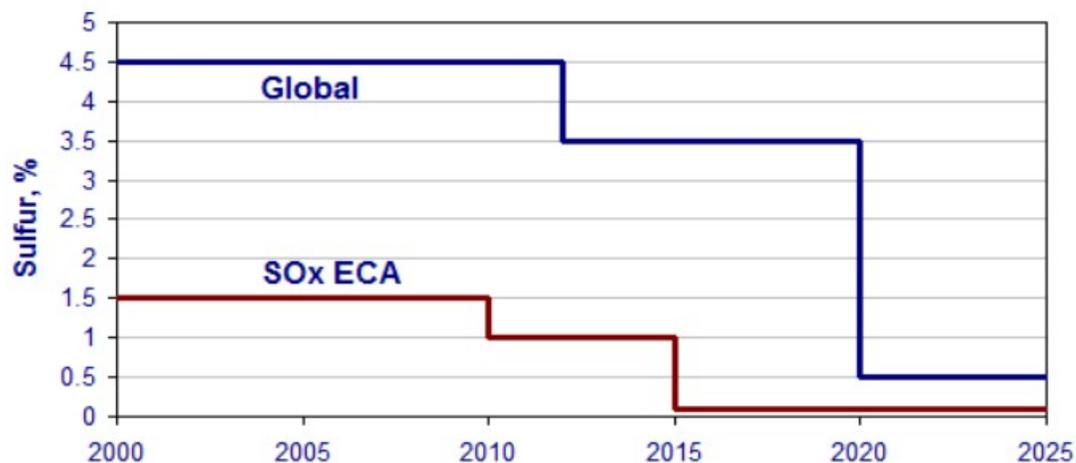
I regolamenti IMO sui limiti per lo zolfo

IMO – the International Maritime Organization – is the United Nations specialized agency with responsibility for the safety and security of shipping and the prevention of marine pollution by ships.

Table 2. MARPOL Annex VI Fuel Sulfur Limits

Date	Sulfur Limit in Fuel (% m/m)	
	SOx ECA	Global
2000	1.5%	4.5%
2010.07	1.0%	3.5%
2012		
2015	0.1%	0.5%
2020 ^a		

a - alternative date is 2025, to be decided by a review in 2018



La Direttiva 2014/94/UE sulla realizzazione di un'infrastruttura per i combustibili alternativi

Articolo 1 - Oggetto

La presente direttiva stabilisce un quadro comune di misure per la realizzazione di un'infrastruttura per i combustibili alternativi nell'Unione per **ridurre al minimo la dipendenza dal petrolio** e attenuare l'impatto ambientale nel settore dei trasporti. La presente direttiva stabilisce requisiti minimi per la **costruzione dell'infrastruttura per i combustibili alternativi**, inclusi i punti di ricarica per veicoli elettrici e i punti di rifornimento di gas naturale (**GNL e GNC**) e idrogeno, da attuarsi mediante i quadri strategici nazionali degli Stati membri, nonché le specifiche tecniche comuni per tali punti di ricarica e di rifornimento, e requisiti concernenti le informazioni agli utenti.

II MANDATO M/533



M/533

Brussels, 12.3.2015
C(2015) 1330 final

COMMISSION IMPLEMENTING DECISION

of 12.3.2015

**on a standardisation request addressed to the European standardisation organisations,
in accordance with Regulation (EU) No 1025/2012 of the European Parliament and of
the Council, to draft European standards for alternative fuels infrastructure**

(Text with EEA relevance)

II MANDATO M/533



M/533

Brussels, 12.3.2015
C(2015) 1330 final

Article 1

The European Committee for Standardisation and European Committee for Electrotechnical Standardisation are requested to draft European standards for alternative fuels infrastructure as set out in the Annex to this Decision.

Article 2

This Decision is addressed to the European Committee for Standardisation (**CEN**) and to the European Committee for Electrotechnical Standardisation (**CENELEC**).

II MANDATO M/533



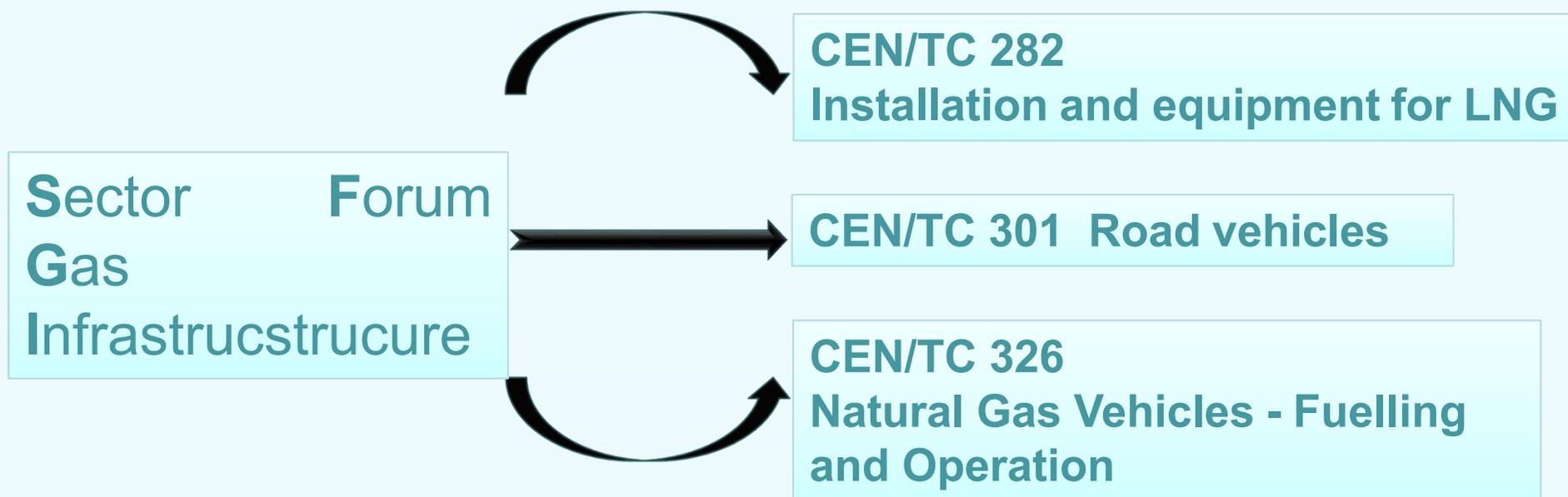
M/533

Brussels, 12.3.2015
C(2015) 1330 final

III European standards (ENs) on natural gas supply

1. A European standard (EN) for Liquefied Natural Gas (LNG) refuelling points for maritime and inland waterway vessels	31/12/2017
2. A European standard (EN) for Liquefied Natural Gas (LNG) connectors and receptacles	31/12/2016
3. A European standard (EN) for Liquefied Natural Gas (LNG and L-CNG) refuelling points for motor vehicles	31/12/2016
4. A European standard for Compressed Natural Gas (CNG) refuelling points for motor vehicles	31/12/2016
5. A European standard (EN) for Compressed Natural Gas (CNG) connectors and receptacles	31/12/2016

Comitati Tecnici CEN coinvolti dal Mandato M/533



La risposta al Mandato M/533

VIENNA AGREEMENT



Norme EN ISO

CEN/TC 282
Installation and equipment for LNG

CEN/TC 301
Road vehicles

CEN/TC 326
Natural Gas Vehicles - Fuelling and
Operation

ISO/TC 67/SC 9
Installation and equipment for LNG
ISO/TC 8 Ships and marine
technology

ISO/TC 22/SC 25
Road vehicles

ISO/TC 252
Natural Gas Vehicles - Fuelling and
Operation

Il programma di lavoro del CEN/TC 282



EN ISO 16903

Characteristics of LNG influencing design and material selection
(pubblicata come **UNI EN ISO 16903** in ottobre 2015)

EN ISO 16904

Design and Testing of LNG Marine Transfer Arms for Conventional Onshore Terminals
(pubblicata come **UNI EN ISO 16904** a settembre 2016)

EN 1473

Installation and equipment for liquefied natural gas - Design of onshore installations
(pubblicata come **UNI EN 1473** a luglio 2016)

prEN ISO 20519 Ships and marine technology - Specification for bunkering of gas fuelled ships (in collaborazione con **ISO/TC 8/WG 8 Liquid and gas fueled vessels**)

prEN ISO 20257-1 Installation and equipment for liquefied natural gas -- Design of offshore installations -Part 1: General requirements for floating LNG installations

ISO/TC 67/SC 9 Liquefied Natural Gas installations and equipment

ISO/AWI 20257 Installation and equipment for liquefied natural gas --
Design of offshore installations (progetto in 3 parti in fase di elaborazione)

ISO/AWI TR 18624 Guidance for conception, design and testing of LNG
storage tanks (progetto in 2 parti in fase di elaborazione)

ISO/TS 18683:2015

Guidelines for systems and installations for supply of LNG as fuel to ships

ISO/TS 16901

Guidance on performing risk assessment in the design of onshore LNG installations including the ship/shore interface

ISO/PC 252 Natural gas fuelling stations for vehicles

ISO/DIS 16923.2 Natural gas fuelling stations -- CNG stations for fuelling vehicles (in attesa di FV)

ISO/DIS 16924.2 Natural gas fuelling stations -- LNG stations for fuelling vehicles (in attesa di FV)



GRAZIE PER L'ATTENZIONE

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