



ISO/TC 197
Hydrogen technologies

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The Liaison Report on IEC/TC 105 Fuel cell technologies

8 December, 2017

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Chairmanship, Scope and Meetings

Chair: Mr Laurent Antoni (FR)

Secretary: Mr Wolfgang Winkler (DE)

Last meeting: 2017-11-06 to 2017-11-10, in Korea, Republic of (Seoul)

Scope: To prepare international standards regarding fuel cell (FC) technologies for all FCs and various associated applications such as stationary FC power systems, FCs for transportation such as propulsion systems, range extenders, auxiliary power units, portable FC power systems, micro FC power systems, reverse operating FC power systems, and general electrochemical flow systems and processes



TC 105 Membership

P-member: 17, O-member: 15

Country	Country Code	P/O Status	IEC Membership
Austria	AT	O-Member	Full Member
Australia	AU	O-Member	Full Member
Belgium	BE	O-Member	Full Member
Brazil	BR	O-Member	Full Member
Canada	CA	P-Member	Full Member
Switzerland	CH	P-Member	Full Member
China	CN	P-Member	Full Member
Czech Republic	CZ	O-Member	Full Member
Germany	DE	P-Member	Full Member
Denmark	DK	P-Member	Full Member
Egypt	EG	P-Member	Full Member
Spain	ES	P-Member	Full Member
Finland	FI	P-Member	Full Member
France	FR	P-Member	Full Member
United Kingdom	GB	P-Member	Full Member
Israel	IL	O-Member	Full Member
2017-12-08			

Country	Country Code	P/O Status	IEC Membership
Iran	IR	O-Member	Full Member
Italy	IT	P-Member	Full Member
Japan	JP	P-Member	Full Member
Korea, Republic of	KR	P-Member	Full Member
Netherlands	NL	P-Member	Full Member
Norway	NO	O-Member	Full Member
Poland	PL	O-Member	Full Member
Portugal	PT	O-Member	Full Member
Romania	RO	O-Member	Full Member
Serbia	RS	O-Member	Full Member
Russian Federation	RU	O-Member	Full Member
Sweden	SE	P-Member	Full Member
Thailand	TH	O-Member	Full Member
Turkey	TR	O-Member	Full Member
United States of America	US	P-Member	Full Member
South Africa	ZA	P-Member	Full Member

TC 105 Working Groups

Label	Description
AG 12	CAG - Chairman's Advisory Group
WG 01	Terminology
WG 02	Fuel cell modules
WG 03	Stationary fuel cell power systems - Safety
WG 04	Performance of Fuel Cell Power Systems
WG 05	Stationary Fuel Cell Power Systems - Installation
WG 06	Fuel cell power systems for propulsion other than for road vehicles, for range extenders and for auxiliary power units (APU)
WG 07	Portable fuel cell power systems - Safety
WG 08	Micro fuel cell power systems - Safety
WG 09	Micro fuel cell power systems - Performance
WG 10	Micro fuel cell power systems - Interchangeability
WG 11	Single cell test methods for PEFC and SOFC
WG 12	Stationary fuel cell power systems - Small stationary fuel cell power systems with combined heat and power output
WG 13	Fuel cell technologies - Energy storage systems using fuel cell modules in reverse mode
WG 14	Life cycle assessment
AHG 04	Monitoring the smart grid
AHG 05	Life cycle assessment (LCA)
AHG 07	Numbering and titles of standards in the IEC 62282 series on "Fuel cell power systems for propulsion and auxiliary power units"

TC 105 Work programme (1/3)

Project Reference	Title	Document Reference	Init. Date	Current Stage Date	Current Stage	Next Stage Date	Next Stage	Working Group	Project Leader
IEC 62282-2-100 ED1	Fuel cell technologies – Part 2-100: Fuel cell modules – Safety	105/658/CD	2017-01	2017-11	PCC	2017-12		WG 2	Eckhard Schwendemann
IEC 62282-2-201 ED1	Fuel cell technologies - Part 2-201: Fuel cell modules - Performance (PEFC)	105/559/NP	2016-04	2016-04	ACD	2018-02	CD	WG 2	Alexander Dyck
IEC 62282-3-100 ED2	Fuel cell technologies - Part 3-100: Stationary fuel cell power systems - Safety	105/663/CDV	2016-12	2017-11	CCDV	2018-02	PRVC	WG 3	Kelvin Hecht
IEC 62282-5-100 ED1	Fuel cell technologies - Part 5-100: Portable fuel cell power systems - Safety	105/649/CDV	2016-11	2017-11	TPUB	2018-01	DECPUB	WG 7	Toshiki Shimizu
IEC 62282-6-101 ED1	Fuel cell technologies - Part 6-101: Micro fuel cell power systems - Safety - General requirements	105/438/CD	2013-01	2015-09	PWI		prePNW	WG 8	H. Jones
IEC 62282-6-400 ED1 2017-12-08	Fuel cell technologies - Part 6-400: Micro fuel cell power systems - Power and data interchangeability	105/641/CD	2016-07	2017-11	TCDV	2018-01	CCDV	WG 10	Hongki Lee

TC 105 Work programme (2/3)

Project Reference	Title	Document Reference	Init. Date	Current Stage Date	Current Stage	Next Stage Date	Next Stage	Working Group	Project Leader
IEC 62282-8-101 ED1	Fuel cell technologies - Part 8-101: Energy storage systems using fuel cell modules in reverse mode - Test procedures for solid oxide single cell and stack performance including reversing operation	105/653/CD	2016-03	2017-10	CDM	2017-12		WG 13	S.McPhail
IEC 62282-8-102 ED1	Fuel cell technologies - Part 8-102: Energy storage systems using fuel cell modules in reverse mode - PEM single cell and stack performance including reversing operation	105/560/NP	2016-03	2016-03	ACD	2017-04	CD	WG 13	Hongmei Yu
IEC 62282-8-201 ED1 2017-12-08	Fuel cell technologies - Part 8-201: Energy storage systems using fuel cell modules in reverse mode - Power-to-power systems performance	105/560/NP	2016-03	2016-03	ACD	2017-04	CD	WG 13	T. Kameda

TC 105 Work programme (3/3)

Project Reference	Title	Document Reference	Init. Date	Current Stage Date	Current Stage	Next Stage Date	Next Stage	Working Group	Project Leader
IEC TS 62282-9-101 ED1	62282-9-101:Fuel cell technologies - Part 101: Evaluation methodology for the environmental performance of fuel cell power systems based on life cycle thinking - Streamlined life-cycle considered environmental performance characterization of stationary fuel cell power systems for residential applications	105/630/NP	2017-03	2017-03	ACD	2018-03	CD	WG 14	Noboru Hashimoto
IEC TS 62282-9-102 ED1	Fuel cell technologies - Part 102: Evaluation methodology for the environmental performance of fuel cell power systems based on life cycle thinking - Product category rules for environmental product declarations of stationary fuel cell power systems and alternative systems for residential applications	105/630/NP	2017-03	2017-10	ACD		CD	WG 14	Kiyoshi Dowaki

2017-12-08