

CEN-CENELEC eMobility Coordination Group
M/468 Work Programme
(December 2014)

STANDARDS UNDER DEVELOPMENT:

CLC/SR 121B 'Low-voltage switchgear and controlgear assemblies'

| Reference | Title | Target date for vote | Current status | Next stage |
|--|---|----------------------|---|------------|
| Assemblies for charging stations: | | | | |
| FprEN 61439-7 (PR=23923) | Low-voltage switchgear and controlgear assemblies -- Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations | | At IEC level (Dresden Agreement) FDIS closed on 2013-04-05 | |

CLC/TC 20 'Electric cables'

| Reference | Title | Target date for vote | Current status | Next stage |
|-----------------------|------------------------------|----------------------|---|-------------------|
| Charging cable | | | | |
| EN 50620 (PR=24105) | Cables for electric vehicles | | Enquiry closed on 2014-07-11 Note: At IEC level, CD document under development → by IEC/TC 20) | Finalization text |

CLC/TC 23E 'Circuit breakers and similar devices for household and similar applications'

| Reference | Title | Target date for vote | Current status | Next stage |
|---|---|----------------------|--|------------|
| IC-CPD for mode 2 charging cable | | | | |
| FprEN 62752 (PR=25097) | In-Cable Control and Protection Device for mode 2 charging of electric road vehicles (IC-CPD) | | At IEC level (Dresden Agreement) Submission to second enquiry (deadline: 2014-12-05) | |

CLC/TC 64 'Electrical installations and protection against electric shock'

| Reference | Title | Target date for vote | Current status | Next stage |
|------------------------------------|--|----------------------|---|----------------------------|
| Supply to Electric Vehicles | | | | |
| FprHD 60364-7-722 (PR= 24483) | Low-voltage electrical installations -- Part 7-722: Requirements for special installations or locations - Supply of electric vehicle | | At IEC level (Dresden Agreement) Closure second vote on 2014-07-11 | FDIS ready for circulation |
| FprEN 61140 (PR=24640) | Protection against electric shock - Common aspects for installation and equipment | | At IEC level (Dresden Agreement) CDV circulated on 2014-10-24) | |

CLC/TC 69X 'Electrical systems for electric road vehicles'

| Electromagnetic compatibility of charging infrastructure | | | | |
|---|--|--|---|-------------------|
| IEC 61851-21-1 | Electric vehicle conductive charging systems - Part 21-1: Electric vehicle onboard charger EMC requirements for conductive connection to an a.c./d.c. supply | | At IEC level (Dresden Agreement) Committee Draft (CD) | CDV expected soon |
| prEN 61851-21-2 | Electric vehicle conductive charging system - Part 21-2: EMC requirements for OFF board electric vehicle charging systems | | At IEC level (Dresden Agreement) Committee Draft (CD) | CDV expected soon |
| FprEN61980 -1 (PR=25038) | Electric vehicle wireless power transfer systems (WPT) - Part 1: General requirements | | At IEC level (Dresden Agreement) CDV vote closed on 2014-02-07 | |
| IEC 62840 -1 | Electric vehicle battery swap system Part 1: System description and general requirements | | At IEC level (Dresden Agreement) CDV | Not under M/468 |
| IEC 62840-2 | Electric vehicle battery swap system - Part 2: Safety requirements | | At IEC level (Dresden Agreement) CDV | Not under M/468 |

CEN/TC 301 'Road vehicles'

| Reference | Title | Target date for vote | Current status | Next stage |
|-----------------------------------|--|----------------------|--|-----------------------------|
| prEN ISO 17409 (WI 00301036) | Electrically propelled road vehicles -- Connection to an external electric power supply -- Safety requirements | | Second ISO/DIS vote closed on 2014-05-16 | |
| prEN ISO 15118-1 (WI 00301034) | Road vehicles -- Vehicle to grid communication interface -- Part 1: General information and use-case definition | | Published at ISO on 2013-04-16 | |
| prEN ISO 15118-2 (WI 00301035) | Road vehicles -- Vehicle to grid communication interface -- Part 2: Network and application protocol requirements | | Published at ISO on 2014-03-31 | |
| prEN ISO 15118-3 (WI 00301033) | Road vehicles -- Vehicle to grid Communication Interface -- Part 3: Physical and data link layer requirements | | ISO/ FDIS registered for formal approval on 2014-09-15 | |
| prEN ISO 15118-4 (WI 00301037) | Road vehicles -- Vehicle to grid communication interface -- Part 4: Network and application protocol conformance test | | ISO/CD vote closed on 2014-06-21 | DIS registered: 2015-06-11 |
| prEN ISO 15118-5 (WI 00301038) | Road vehicles -- Vehicle to grid communication interface -- Part 5: Physical layer and data link layer conformance test | | ISO/CD ballot initiated on 2014-08-29 | DIS registered: 2015-03-11 |
| prEN ISO 15118-6 (WI 00301040) | Road vehicles - Vehicle to grid communication interface - Part 6: General information and use-case definition for wireless communication | | Close of CD voting/comment on 2014-07-30 | DIS registered : 2016-01-09 |
| prEN ISO 15118-7 (WI 00301041) | Road vehicles - Vehicle to grid communication interface - Part 7: Network and application protocol requirements for wireless communication | | New project registered in database on 2013-01-09 | DIS registered: 2016-01-09 |
| prEN ISO 15118-8 (WI 00301042) | Road vehicles - Vehicle to grid communication interface - Part 8: Physical layer and data link layer requirements for wireless communication | | New project registered in database on 2013-01-09 | DIS registered: 2016-01-09 |
| ISO/NP 18246 | Electrically propelled mopeds and motorcycles - Principles and requirements for conductive charging - Vehicle safety during charging from mains, grid and/or stationary external energy supply | | ISO/DIS ballot initiated on 2014-09-24 | |

CLC/TC 23BX 'Switches, boxes and enclosures for household and similar purposes, plugs and socket outlets for d.c. and for the charging of electrical vehicles including their connectors'

| Reference | Title | Target date for vote | Current status | Next stage |
|--------------------------------------|--|----------------------|---|----------------------|
| DC Charging | | | | |
| FprEN 62196-1:2014/FrprAA (PR=58649) | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements | | Common Modifications (to adapt to upcoming directive on alternative fuels) Formal vote closed on 2014-08-29 (positive) | To be published soon |

PUBLISHED STANDARDS

CLC/BTWG 112-1 'Improvement of EN 60309-1 and EN 60309-2'

| Reference | Title | Remarks |
|--|---|-------------------|
| EN 60309-1:1999 (PR=12444) | Plugs, socket-outlets and couplers for industrial purposes - Part 1: General requirements | Dresden Agreement |
| EN 60309-1:1999/A1:2007 (PR=16594) | Plugs, socket-outlets and couplers for industrial purposes - Part 1: General requirements | Dresden Agreement |
| EN 60309-1:1999/A2:2012 (PR= 23615) | Plugs, socket-outlets and couplers for industrial purposes - Part 1: General requirements | Dresden Agreement |
| EN 60309-2:1999 (PR=12871) | Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories | Dresden Agreement |
| EN 60309-2:1999/A1:2007 (PR=16595) | Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories | Dresden Agreement |
| EN 60309-2:1999 /A2:2012 (PR=23616) | Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories | Dresden Agreement |

CLC/TC 64 'Electrical installations and protection against electric shock'

| Reference | Title | Remarks |
|-----------------------|---|-------------------|
| HD 60364-7-722:2012 | Low voltage electrical installations - Part 7-722: Requirements for special installations or locations - Supply of electric vehicle | |
| EN 61140:2002 | Protection against electric shock - Common aspects for installation and equipment | Dresden Agreement |
| EN 61440:2002/A1:2006 | Protection against electric shock - Common aspects for installation and equipment | |

CLC/TC 69X 'Electrical systems for electric road vehicles'

| Reference | Title | Remarks |
|--------------------------------|---|-------------------|
| EN 61851-1:2011 | Electric vehicle conductive charging system - Part 1: General requirements | Dresden Agreement |
| EN 61851-23:2014 (PR=24554) | Electric vehicle conductive charging system -- Part 23: D.C. electric vehicle charging station | Dresden Agreement |
| EN 61851-24:2014 (PR=24517) | Electric vehicle conductive charging system -- Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging | Dresden Agreement |

CLC/TC 23BX 'Switches, boxes and enclosures for household and similar purposes, plugs and socket outlets for d.c. and for the charging of electrical vehicles including their connectors'

| Reference | Title | Remarks |
|--|--|-------------------|
| EN 62196-1:2014 (PR=24588) | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements | Dresden Agreement |
| EN 62196-2:2011 (PR=23259) | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories | Dresden Agreement |
| EN 62196-2:2012/A11:2013 (PR=23822) | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories | |
| EN 62196-2:2012/A12:2014 (PR=25110) | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles -- Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories | |
| EN 62196-3:2014 (PR=24566) | Plugs, socket-outlets, and vehicle couplers - conductive charging of electric vehicles - Part 3: Dimensional compatibility and interchangeability requirements for dedicated d.c. and combined a.c./d.c. pin and contact-tube vehicle couplers | Dresden Agreement |