

Work to establish standard

EN50549 -1 / -2 / -10

PRESENTED TO 7TH ACER GRID CONNECTION ESC

CENELEC TC8X AHG

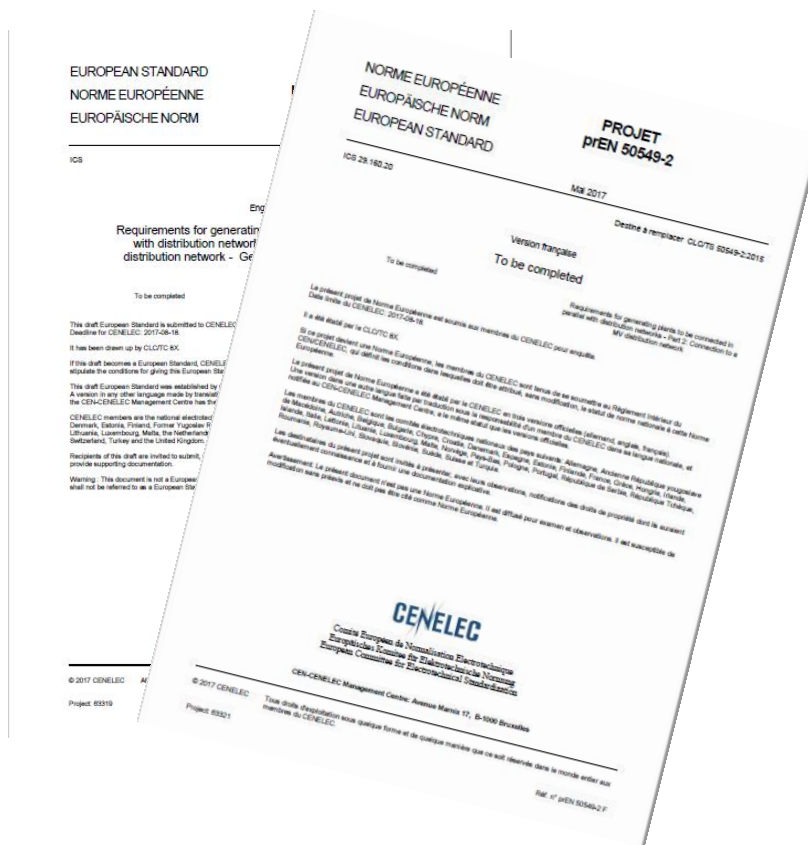
PRESENTED BY THOMAS SCHAUPP (KACO)

Agenda

Status to prEN 50549

Needed clarification

prEN50549-1; -2



- Status: Closure of enquiry
 - Enquiry stage– public comment at national level
- Next task: Analyzation of submitted comments
- Next stage: Formal vote, planned early 2018
- Next meeting to deal with comments September 13th and 14th

Planning EN50549-1; -2

	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
combined Adapt to NC RfG																		
WG comments on WG Draft -1-1 and -2																		
Dealing with WG comments on Draft -1-1 and -2 combined																		
Deliver splitted draft for Enquiry to CCMC																		
CCMC editing (3 months) - optional																		
Enquiry (3 months)		3m																
Dealing with comments from NC's					WG													
Deliver draft for voting to CCMC																		
CCMC editing (2,5 months)								2,5m										
Voting by NC's (2 months)										2m								
Final editorial review by CCMC																		

Requirements EN 50549 -1 ; -2

- Priority of WG3 is going to be focused on EN50549 part 1 and 2 after enquiry
- 6 meeting days to handle comments of national committees
- 2 months for editing and implementing decisions

Work on EN50549-1; -2; -10

EN 50549 – 10

- Provides test procedures for measurement and assessment of electrical characteristics of a generating unit
- Could be taken into account by Authorized Certifiers to establish Equipment Certificates

Planning

- Work to be interrupted after receiving comments on parts 1 and 2
- Resume work early 2018
- 1.5 years to 2 years before finalization and vote
- Result : Publication end of 2019 early 2020

Agenda

Status to prEN 50549

Needed clarification

Needed clarification

CENELEC TC8X WG03 asks for further clarification

5 Questions from CENELEC to ESC

- Four questions have been answered

One question still open

- May a European Standard impose more stringent requirements than imposed by NC RfG and may member states use such a standard?

Due to the complexity of the matter CENELEC TC8X could not agree on one opinion, however the letter regarding these matters has been send to ESC representing the view of some experts in the TC8X AhG

Needed clarification

Directive 714/2009 8(7)

7. The network codes shall be developed for cross-border network issues and market integration issues and shall be without prejudice to the Member States' right to establish national network codes which do not affect cross-border trade.

Needed clarification in detail

1)

Are requirements which are not dealt with in the NC RfG to be considered as illegitimate more stringent requirements?

Examples:

- Requirement on power quality
- Requirements on island detection (as long the methods do not violate other RfG requirements)

WG03 understanding:

- Such requirements are legitimate as they do not effect cross border trade of electricity,
- provided that implementation is not in conflict with any article of NC RfG

Needed clarification in detail

3)

Are additional requirements to requirements dealt with in the NC RfG (accuracy of control and response times) to be considered as illegitimate more stringent requirements or as needed detailed requirements?

Examples:

- Response time for LFSM-O

WG03 understanding:

- Such requirements are legitimate as they are not dealt with in NC RfG and therefore not covered by EU legislation,
- provided that they are not in conflict with any other article of NC RfG

Needed clarification in detail

2)

Are requirements which are dealt with in the NC RfG for some type of generators to be considered as illegitimate more stringent requirements if they are imposed to other type of generators (Type A) during national implementation?

	Topic might be necessary for Type A	Article	WG03s understanding regarding conformity
a)	Under voltage ride through	Art. 14 3.	
b)	Reactive power requirements	Art. 17 2. and Art. 20 2.	
c)	Reconnection condition	Art. 14 4.	
d)	(Interface) Protection requirements	Art. 14 5. (b)	

Needed clarification in detail

	Topic might be necessary for Type A	Article	WG03s understanding regarding conformity
b)	Reactive power requirements	Art. 17 2. and Art. 20 2.	Required locally for the management of distribution grid -> no effect on cross border trade -> legitimate
c)	Reconnection condition	Art 14 4.	
d)	(Interface) Protection requirements	Art 14 5. (b)	

WG03s understanding regarding conformity for b)-d):

- Such requirements are legitimate as they do not effect cross border trade of electricity,
- Provided that Implementation in not in conflict with any article of NC RfG

Needed clarification in detail

	Topic might be necessary for Type A	Article	WG03s understanding regarding conformity
a)	Under voltage ride through	Art. 14 3.	?

WG03s understanding regarding conformity for a):

- UVRT for Type A is necessary in some regions for transport system stability aspects, at least for PV power-generating modules
- Transport system stability aspects are considered as effecting cross border trade
- As UVRT is covered in NC RfG for Type B-D it might be
 - a) intentionally left out for Type A and therefore covered in EU legislation
 - or
 - b) not considered for Type A and therefore not covered in EU legislation

Needed clarification in detail

- As UVRT is covered in NC RfG for Type B-D it might be
 - a) intentionally left out for Type A and therefore covered in EU legislation or
 - b) not considered for Type A and therefore not covered in EU legislation
- WG03 regards a) as more likely
 - ⇒ national requirement of UVRT for Type A conflicts with EU legislation

Issue

- Technical requirement conflicts with EU legislation
- UVRT for Type-A PV generating modules is necessary to achieve NC RfG overall goal

Conclusion 1

Proposed Solution

UVRT

- ESC GC unanimously states technical need for UVRT for Type-A PV generating modules
- ESC GC unanimously requests EC
 - **to immediately begin action regarding UVRT for Type A**
- and**
- **to provide option to bridge time between May 2018 and the amendment of NC RfG**

Conclusion 2

- ESC GC unanimously states that for Type A
 - Reactive power requirements
 - Reconnection condition
 - (Interface) Protection requirements
 - Power quality requirements
- do not effect cross border trade of electricity, provided that Implementation is not in conflict with any article of NC RfG
- ESC GC unanimously states that additional detail
 - e.g. response time for LFSM-O
 - e.g. Accuracy for active and reactive power control
- are legitimate, provided that they are not in conflict with any other article of NC RfG
- This even, if they result in a more complicated implementation in some member states

END

Thank you for your attention.

Please comment on our proposal.