The ILO sent an email requesting approval for the NYPA Full Member Fellowship approval on December 4, 2017. Members voted via email as shown below. Quorum is 9 votes. Measure approved.

<table>
<thead>
<tr>
<th>Company</th>
<th>Membership Level</th>
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<th>No</th>
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<td><strong>Project Total</strong></td>
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<td>255</td>
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</table>
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Let me know if you have any questions.

Ken Dulaney, PE
Director of Industry and Innovation
FREEDM Systems Center
(919) 513-2996 Office
(919) 645-8085 Mobile

---

Visit us at Distributech in San Antonio on January 22-25!
Gajda, John W <John.Gajda@duke-energy.com>

To: Ken Dulaney <ken_dulaney@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Chen, Kevin" <Kevin.Chen@duke-energy.com>, "geraldonojima@eaton.com" <geraldonojima@eaton.com>, "Yanniello, Robert" <RobertYanniello@eaton.com>, "Stella, Stephen" <sstella@epri.com>, "Rogers, Bruce" <brogers@epri.com>, "Sanchez, Francisco" <Francisco.Sanchez@fpl.com>, "Taylor, Paul J" <Paul.j.Taylor@fpl.com>, "Critelli, Ron" <Ron.Critelli@fpl.com>, "叶田玲彦 / KANOUDA, AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, "yuichi.mabuchi.wz@hitachi.com" <yuichi.mabuchi.wz@hitachi.com>, Heping Dai <heping.dai@huawei.com>, "Reznack, Andrew" <andrew.reznack@itron.com>, "Driscoll, Tim" <Tim.driscoll@itron.com>, "Ettlinger, Alan" <Alan.Ettlinger@nypa.gov>, "Darvishi, Atena" <Atena.Darvishi@nypa.gov>, Adam Gregory <Adam.gregory@pos-en.com>, Daniel Constantine Gregory <dan.gregory@pos-en.com>, Paul Gregory <paul.gregory@pos-en.com>, Tim Fairchild <Tim.Fairchild@sas.com>, Arnie de Castro <Arnie.deCastro@sas.com>, Tim Fairchild <Tim.Fairchild@sas.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, "greg.myers@sensus.com" <greg.myers@sensus.com>, "Gregory, Jared" <jared.gregory@xyleminc.com>, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, "yoichi.morishima@toshiba.co.jp" <yoichi.morishima@toshiba.co.jp>, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, Wente ZENG <wente.zeng@total.com>, Franck RAGOT <franck.ragot@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, "giuseppe.gatti@wicor.com" <giuseppe.gatti@wicor.com>, Giuseppe Simioli <giuseppe.simioli@wicor.com>

Cc: Iqbal Husain <ihusain2@ncsu.edu>

Ken,

Please consider Duke’s a vote a “YES” to the NYPA fellowship.

Thanks,

John Gajda

John W. Gajda, P.E.
Director, DER Operations Support
Distributed Energy Technologies department
Duke Energy
411 Fayetteville Street, NC16
Raleigh, NC 27601
John.Gajda@duke-energy.com
(919) 546-4697 –office

---

From: Ken Dulaney [mailto:ken_dulaney@ncsu.edu]
Sent: Monday, December 04, 2017 11:22 AM
To: Iulian Nistor; Sandeep Bala; Gajda, John W; Chen, Kevin;geraldonojima@eaton.com; Yanniello, Robert; Stella,
EPRI is a “Yes.”

Best Regards,

Bruce

EPRI, Power Delivery & Utilization
Phone: 423.341.4606

From: Ken Dulaney [mailto:ken_dulaney@ncsu.edu]
Sent: Monday, December 04, 2017 11:22 AM
To: Iulian Nistor <iulian.nistor@us.abb.com>; Sandeep Bala <sandeep.bala@us.abb.com>; Gajda, John <john.gajda@duke-energy.com>; Chen, Ke <Ke.Chen@duke-energy.com>; geraldonojima@eaton.com; Yanniello, Robert <RobertYanniello@eaton.com>; Stella, Stephen <sstella@epri.com>; Rogers, Bruce <brogers@epri.com>; Sanchez, Francisco <Francisco.Sanchez@fpl.com>; Taylor, Paul J <Paul.j.Taylor@fpl.com>; Critelli, Ron <Ron.Critelli@fpl.com>; Liu, Peter (TIC) <Peter.Liu@toshiba.com>; Heping Dai <heping.dai@huawei.com>; Reznack, Andrew <andrew.reznack@itron.com>; Driscoll, Tim <Tim.driscoll@itron.com>; Ettlinger, Alan <Alan.Ettlinger@nypa.gov>; Darvishi, Atena <Atena.Darvishi@nypa.gov>; Adam Gregory <Adam.gregory@pos-en.com>; Daniel Constantine Gregory <dan.gregory@pos-en.com>; Paul Gregory <paul.gregory@pos-en.com>; Arnie de Castro <Arnie.deCastro@sas.com>; Tim Fairchild <Tim.Fairchild@sas.com>; John Shea <john.shea@schneider-electric.com>; Kenny Aron <kennetharon@schneider-electric.com>; greg.myers@sensus.com; Gregory, Jared <jared.gregory@xyleminc.com>; Dickerson, Paula <Paula.Dickerson@sensus.com>; yochi.morishima@toshiba.co.jp; Liu, Peter (TIC) <Peter.Liu@toshiba.com>; Wente ZENG <wente.zeng@total.com>; Franck RAGOT <franck.ragot@total.com>; Jae Lee (TEMA TTC) <jae.lee@toyota.com>; giuseppe.gatti@wicor.com; Giuseppe Simioli <giuseppe.simioli@wicor.com>
Cc: Iqbal Husain <husain2@ncsu.edu>
Subject: [EXTERNAL] FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Dear IAB,

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management approach. And industry input is highly valued! Please RSVP to sean.mcauliffe@ucc.ie if you plan to attend. He will send you the webex link and presentations from the morning sessions.

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Let me know if you have any questions.

Ken Dulaney, PE
Director of Industry and Innovation
FREEDM Systems Center
(919) 513-2996 Office
(919) 645-8085 Mobile

Visit us at Distributech in San Antonio on January 22-25!

---

Wente ZENG <wente.zeng@total.com> Tue, Dec 5, 2017 at 12:10 PM
To: Ken Dulaney <ken_dulaney@ncsu.edu>

Hi Ken

Yes from Total.

Thanks!

Wente

---

From: Ken Dulaney [mailto:ken_dulaney@ncsu.edu]
Sent: Monday, December 04, 2017 11:22 AM
To: Julian Nistor; Sandeep Bala; Gajda, John; Chen, Ke; geraldonojima@eaton.com; Yanniello, Robert; Stella, Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; 叶田玲彦 / KANOUDA, AKIHIKO; yuichimabuchi.wz@hitachi.com; Heping Dai; Reznack, Andrew; Driscoll, Tim; Ettlinger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Arnie de Castro; Tim Fairchild; John Shea; Kenny Aron; greg.myers@sensus.com; Gregory, Jared; Dickerson, Paula; yoichi.morishima@toshiba.co.jp; Liu, Peter (TIC); Wente ZENG; Franck RAGOT; Jae Lee (TEMA TTC); giuseppe.gatti@wicor.com; Giuseppe Simioli
Cc: Iqbal Husain
Subject: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7
Dear IAB,

[Quoted text hidden]

Daniel Gregory <dan.gregory@pos-en.com>  Tue, Dec 5, 2017 at 6:16 PM
To: Ken Dulaney <ken_dulaney@ncsu.edu>, "Yanniello, Robert" <robertyanniello@eaton.com>
Cc: Iqbal Husain <ihsain2@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Gajda, John" <john.gajda@duke-energy.com>, "Chen, Ke" <ke.chen@duke-energy.com>, "Nojima, Geraldo" <geraldonojima@eaton.com>, "Stella, Stephen" <stella@epri.com>, "Rogers, Bruce" <brogers@epri.com>, "Sanchez, Francisco" <francisco.sanchez@fpl.com>, "Taylor, Paul J" <paul.j.taylor@fpl.com>, "Critelli, Ron" <ron.critelli@fpl.com>, "?? / KANOUDA,AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, "yuichi.mabuchi.wz@hitachi.com" <yuichi.mabuchi.wz@hitachi.com>, Heping Dai <heping.dai@huawei.com>, "Reznack, Andrew" <andrew.reznack@itron.com>, "Driscoll, Tim" <tim.driscoll@itron.com>, "Ettlinger, Alan" <alana.ettlinger@nypa.gov>, "Darvishi, Atena" <atena.darvishi@nypa.gov>, Adam Gregory <adam.gregory@pos-en.com>, Paul Gregory <paul.gregory@pos-en.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, "ggreg.myers@sensus.com" <ggreg.myers@sensus.com>, "Gregory, Jared" <jared.gregory@xyleminc.com>, "Dickerson, Paula" <paula.dickerson@sensus.com>, "yoichi.morishima@toshiba.co.jp" <yoichi.morishima@toshiba.co.jp>, "Liu, Peter (TIC)" <peter.liu@toshica.com>, Wente ZENG <wente.zeng@total.com>, Franck RAGOT <franck.ragot@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, "giuseppe.gatti@wicor.com" <giuseppe.gatti@wicor.com>, Giuseppe Simioli <giuseppe.simioli@wicor.com>

Ken,

Pos-En votes "Yes" for NYPA fellowship.

Best,
Dan

Daniel C. Gregory
CEO
Pos-En

919-593-5031
www.pos-en.com

This email is confidential.

From: Yanniello, Robert
Sent: Tuesday, December 5, 12:54 PM
Subject: RE: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7
To: Ken Dulaney
Cc: Iqbal Husain, Iulian Nistor, Sandeep Bala, Gajda, John, Chen, Ke, Nojima, Geraldo, Stella, Stephen, Rogers, Bruce, Sanchez, Francisco, Taylor, Paul J, Critelli, Ron, ?? / KANOUDA,AKIHIKO, yuichi.mabuchi.wz@hitachi.com, Heping Dai, Reznack, Andrew, Driscoll, Tim, Ettlinger, Alan, Darvishi, Atena, Adam Gregory, Daniel Gregory, Paul Gregory, Ann de Castro, Tim Fairchild, John Shea, Kenny Aron, greg.myers@sensus.com, Gregory, Jared, Dickerson, Paula, yoichi.morishima@toshiba.co.jp, Liu, Peter (TIC), Wente ZENG, Franck RAGOT, Jae Lee (TEMA TTC), giuseppe.gatti@wicor.com, Giuseppe Simioli

Eaton is supportive of the NYPA fellowship.

From: Ken Dulaney [mailto:ken_dulaney@ncsu.edu]
Sent: Monday, December 04, 2017 11:22 AM
To: Julian Nistor; Sandeep Bala; Gajda, John; Chen, Ke; Nojima, Geraldo; Yanniello, Robert; Stella, Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; 叶田玲彦 / KANOUDA, AKIHIKO; yuichi.mabuchi.wz@hitachi.com; Heping Dai; Reznack, Andrew; Driscoll, Tim; Ettlinger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Ann de Castro; Tim Fairchild;
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Let me know if you have any questions.

Ken Dulaney, PE
Director of Industry and Innovation
FREEDM Systems Center
(919) 513-2996 Office
(919) 645-8085 Mobile

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---

Critelli, Ron <Ron.Critelli@fpl.com> Tue, Dec 5, 2017 at 8:20 PM
To: Ken Dulaney <ken_dulaney@ncsu.edu>  

FPL approves NYPA

Sent from my iPhone

> On Dec 4, 2017, at 11:23 AM, Ken Dulaney <ken_dulaney@ncsu.edu> wrote:
> 
> > CAUTION - EXTERNAL EMAIL
> >
> > Dear IAB,
> >
> > I mentioned earlier that there are a few business items I would like to complete before our face to face meeting next week. We have one request for an Enhancement Project and an invitation to participate in the CREDENCE Industry Advisory Committee.
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Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile

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[Quoted text hidden]
Athena and Alan,

Just a reminder that NYPA can vote to approve your own request. I know you support it but I need official documentation via email. Thanks. Hoping to get this processed this week so you guys can issue the PO.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile  

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On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <ken_dulaney@ncsu.edu> wrote:

[Quoted text hidden]

Kenneth Aron <kenneth.aron@schneider-electric.com>  
To: Ken Dulaney <ken_dulaney@ncsu.edu>, John Shea <John.Shea@schneider-electric.com>

Yes.

From: Ken Dulaney [mailto:ken_dulaney@ncsu.edu]  
Sent: Wednesday, December 6, 2017 1:43 PM  
To: John Shea <John.Shea@schneider-electric.com>; Kenneth Aron <kenneth.aron@schneider-electric.com>  
Subject: Re: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

[Quoted text hidden]

This email has been scanned by the Symantec Email Security.cloud service.

--

Ken Dulaney <ken_dulaney@ncsu.edu>  
To: Arnie de Castro <Arnie.deCastro@sas.com>

Arnie, can I get SAS's vote on the NYPA request?

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile
Visit us at Distributech in San Antonio on January 22-25!

On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <ken_dulaney@ncsu.edu> wrote:

Sandeep Bala <sandeep.bala@us.abb.com>  
To: Ken Dulaney <ken_dulaney@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>  

Hi Ken,

Sorry for the delayed response. We vote yes to NYPA’s request.

Sandeep

---

From: Ken Dulaney [mailto:ken_dulaney@ncsu.edu]  
Sent: Wednesday, December 06, 2017 14:44  
To: Sandeep Bala <sandeep.bala@us.abb.com>; Iulian Nistor <iulian.nistor@us.abb.com>  
Subject: Re: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7  

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hey Sandeep and Julian, could I get ABB’s vote on NYPA’s fellowship request?

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile  

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Let me know if you have any questions.

Ken Dulaney, PE
Director of Industry and Innovation
FREEDM Systems Center
(919) 513-2996 Office
(919) 645-8085 Mobile

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---

Excellent. Thank you.

Ken Dulaney, PE
Director of Industry and Innovation
FREEDM Systems Center
(919) 513-2996 Office
Visit us at Distributech in San Antonio on January 22-25!

Ken Dulaney <ken_dulaney@ncsu.edu>  
To: Sandeep Bala <sandeep.bala@us.abb.com>  
Cc: Iulian Nistor <iulian.nistor@us.abb.com>

Thank you.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile

Visit us at Distributech in San Antonio on January 22-25!

Ken Dulaney <ken_dulaney@ncsu.edu>  
To: Heping Dai <Heping.Dai@huawei.com>

Heping, could you please vote on NYPA’s request?

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile

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On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <ken_dulaney@ncsu.edu> wrote:

Ettlinger, Alan <Alan.Ettlinger@nypa.gov>  
To: Ken Dulaney <ken_dulaney@ncsu.edu>  
Cc: "Darvishi, Atena" <Atena.Darvishi@nypa.gov>

Atena is out on business we will get back to you asap

From: Ken Dulaney [mailto:ken_dulaney@ncsu.edu]  
Sent: Wednesday, December 6, 2017 2:45 PM
To: EliŶgeƌ, Alan <Alan.Ettlinger@nypa.gov>; Darvishi, Atena <Atena.Darvishi@nypa.gov>
Subject: [EXTERNAL]Re: FREEDM: IAB Vote, CREDENCE WeďiŶaƌ IŶǀite, No IAB Call oŶ ϭϮ/ϳ

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For suspicious emails. Contact Help Desk (718-4357). Or open a new email, insert the suspicious email and send to Email Abuse.

Arnie de Castro <Arnie.deCastro@sas.com>  
To: Ken Dulaney <ken_dulaney@ncsu.edu>

Wed, Dec 6, 2017 at 3:50 PM

Yes to NYPA request.

Sent from my iPhone

On Dec 6, 2017, at 2:46 PM, Ken Dulaney <ken_dulaney@ncsu.edu> wrote:

EXTERNAL

Giuseppe.Gatti@wicor.com <Giuseppe.Gatti@wicor.com>  
To: Ken Dulaney <ken_dulaney@ncsu.edu>
Cc: Adam Gregory <Adam.gregory@pos-en.com>, "叶田玲彦 / KANOUDA. AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, "Ettlinger, Alan" <Alan.Ettlinger@nypa.gov>, "Reznack, Andrew" <andrew.reznack@itron.com>, Arnie de Castro <Arnie.deCastro@sas.com>, "Darvishi, Atena" <Atena.Darvishi@nypa.gov>, "Rogers, Bruce" <brogers@epri.com>, Daniel Constantine Gregory <dan.gregory@pos-en.com>, "Sanchez, Francisco" <Francisco.Sanchez@fpl.com>, Franck RAGOT <franck.ragot@total.com>, geraldonojima@eaton.com, Giuseppe Simioli <giuseppe.simioli@wicor.com>, greg.myers@sensus.com, Heping Dai <heping.dai@huawei.com>, Iqbal Husain <ihusain2@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, "Gregory, Jared" <jared.gregory@xyleminc.com>, "Gajda, John" <john.gajda@duke-energy.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, "Chen, Ke" <Ke.Chen@duke-energy.com>, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, Paul Gregory <paul.gregory@pos-en.com>, "Taylor, Paul J" <Paul.j.Taylor@fpl.com>, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, "Yanniello, Robert" <RobertYanniello@eaton.com>, "Critelli, Ron" <Ron.Critelli@fpl.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Stella, Stephen" <sstella@epri.com>, "Driscoll, Tim" <Tim.driscoll@itron.com>, Tim Fairchild <Tim.Fairchild@sas.com>, Wente ZENG <wente.zeng@total.com>, yoichi.morishima@toshiba.co.jp, yuichi.mabuchi.wz@hitachi.com, joseph.elhayek@wicor.com

Thu, Dec 7, 2017 at 4:44 AM

Dear Ken,

the answer by Weidmann is YES.

Kind regards - Cordiali saluti - Freundliche Grüsse

Giuseppe Gatti
Manager Engineering Consulting EA
Engineering Chiasso

Weidmann Electrical Technology AG
Corso San Gottardo 25
6830 Chiasso, Switzerland

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Dear IAB,

I mentioned earlier that there are a few business items I would like to complete before our face to face meeting next week. We have one request for an Enhancement Project and an invitation to participate in the CREDENCE Industry Advisory Committee.

1. NYPA is requesting approval for a Fellowship student as allowed in our bylaws. This is a program offered to Full Members that allows them to pay an additional fee and designate a portion of their dues to fund a student who's research will be shared with all members. You may recall that we approved a Fellowship Student for Total in August. This is a similar request but from NYPA. The proposed project scope is attached. Note that this vote is not requesting additional funds from members but just granting approval to NYPA to allocate their dues to a particular project. Please reply with Yes or No to this email.

2. FREEDM IAB members are also invited to attend a webinar this Thursday, December 7, at 11 am US eastern for the CREDENCE Project Industry Advisory Committee. A flyer with details on the project is attached. This is the joint project between FREEDM and several university research centers in Ireland to develop an island-wide energy management approach. And industry input is highly valued! Please RSVP to sean.mcauliffe@ucc.ie if you plan to attend. He will send you the webex link and presentations from the morning sessions.

3. Hopefully, you noticed that the CREDENCE call overlaps somewhat with our regular IAB monthly call. Since we’ll be face to face next week, we will cancel this call on Thursday. Now you should be free to join the CREDENCE call if you can!

Let me know if you have any questions.

Ken Dulaney, PE
Director of Industry and Innovation
FREEDM Systems Center
(919) 513-2996 Office
(919) 645-8085 Mobile
Visit us at Distributech in San Antonio on January 22-25![attachment "FREEDM Fellowship SOW - NYP A Control using FACTS and Wind.pdf" deleted by Giuseppe Gatti/CHECO/WETAG/Wicor]
[attachment "CRE DENCE Brochure 2017.pdf" deleted by Giuseppe Gatti/CHECO/WETAG/Wicor]