

**FREEDM: IAB Vote for Core Project for GEH Industry Support**

20 messages

Ken Dulaney <ken\_dulaney@ncsu.edu> Fri, Aug 4, 2017 at 6:12 PM  
 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>, Yoshinari IKEDA <ikeday@fujielctric.com>, Hayato Nakano <nakano-hayato@fujielctric.com>, "叶田玲彦 / KANOUDA, AKIHIKO" <akihiko.kanoda.zz@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>, "Srinivasan, Prasanna" <Prasanna\_Srinivasan@lord.com>, rudy.bukovnik@lord.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 <kenneth.aron@schneider-electric.com>, greg.myers@sensus.com, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, yoichi.morishima@toshiba.co.jp, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, Wente ZENG <wente.zeng@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, giuseppe.gatti@wicor.com, Giuseppe Simioli <giuseppe.simioli@wicor.com>  
 Cc: Iqbal Husain <ihusain2@ncsu.edu>, Ewan Pritchard <egpritch@ncsu.edu>

As discussed during our meeting on Thursday, there is an item that requires official vote from the IAB to allocate funds from the membership pool.

The specific project scope is attached. This project is to support the Fellowship for Total. Recall from the bylaws that Full Members may elect to fund a Fellow to conduct research on a scope developed in coordination with faculty and the member company. The project considered a core project and supports the mission of the Center. The Full Member pays an additional amount (usually \$15k) to help offset the tuition, fees and stipend of the graduate student. The balance of the student funding comes from the membership pool. This means research results are shared with all members and any IP developed by the project follows the IP rules listed in the bylaws.

The amount requested is \$60k which when combined with Total's contribution will cover the Fellow expenses for two years.

**Please reply to this email with your vote Yes or No by August 11.** 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



Energy Management for Hybrid Microgrids.pdf  
 303K

Kenneth Aron <kenneth.aron@schneider-electric.com> Mon, Aug 7, 2017 at 9:28 AM  
 To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Yes.

From: Ken Dulaney [mailto:ken\_dulaney@ncsu.edu]

Sent: Friday, August 04, 2017 5:13 PM

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>; Yoshinari IKEDA <ikeday@fujielctric.com>; Hayato Nakano <nakano-hayato@fujielctric.com>; 叶田玲彦 / KANOUDA, AKIHIKO <akihiko.kanoda.zz@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>; Srinivasan, Prasanna <Prasanna\_Srinivasan@lord.com>; rudy.bukovnik@lord.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>; Kenneth Aron <kenneth.aron@schneider-electric.com>; greg.myers@sensus.com; Dickerson, Paula <Paula.Dickerson@sensus.com>; yoichi.morishima@toshiba.co.jp; Liu, Peter (TIC) <Peter.Liu@toshiba.com>; Wente ZENG <wente.zeng@total.com>; Jae Lee (TEMA TTC) <jae.lee@toyota.com>; giuseppe.gatti@wicor.com; Giuseppe Simioli <giuseppe.simioli@wicor.com>  
 Cc: Iqbal Husain <ihusain2@ncsu.edu>; Ewan Pritchard <egpritch@ncsu.edu>  
 Subject: FREEDM: IAB Vote for Core Project for GEH Industry Support

[Quoted text hidden]

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

Wente ZENG <wente.zeng@total.com> Mon, Aug 7, 2017 at 10:02 AM  
 To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Hi Ken,

Yes, from Total.

Thanks!

Wente

From: Ken Dulaney [mailto:ken\_dulaney@ncsu.edu]

Sent: Friday, August 04, 2017 6:13 PM

To: Iulian Nistor; Sandeep Bala; Gajda, John; Chen, Ke; geraldonojima@eaton.com; Yanniello, Robert; Stella, Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; Yoshinari IKEDA; Hayato Nakano; 叶田玲彦 / KANOUDA, AKIHIKO; yuichi.mabuchi.wz@hitachi.com; Heping Dai; Reznack, Andrew; Driscoll, Tim; Srinivasan, Prasanna; rudy.bukovnik@lord.com; Ettlinger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Arnie de Castro; Tim Fairchild; John Shea; Kenny Aron; greg.myers@sensus.com; Dickerson, Paula; yoichi.morishima@toshiba.co.jp; Liu, Peter (TIC); Wente ZENG; Jae Lee (TEMA TTC); giuseppe.gatti@wicor.com; Giuseppe Simioli  
 Cc: Iqbal Husain; Ewan Pritchard  
 Subject: FREEDM: IAB Vote for Core Project for GEH Industry Support

As discussed during our meeting on Thursday, there is an item that requires official vote from the IAB to allocate funds from the membership pool.

[Quoted text hidden]

Rogers, Bruce <brogers@epri.com> Mon, Aug 7, 2017 at 10:04 AM  
 To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Yes

Best Regards,

Bruce

EPRI, Power Delivery & Utilization

Phone: 423.341.4606

**From:** Ken Dulaney [mailto:ken\_dulaney@ncsu.edu]

**Sent:** Friday, August 04, 2017 6:13 PM

**To:** Iulian Nistor <lulian.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 <Robert.Yanniello@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>; Yoshinari IKEDA <ikeday@fujielectric.com>; Hayato Nakano <nakano-hayato@fujielectric.com>; 叶田玲彦 / KANOUDA, AKIHIKO <akihiko.kanoda.zz@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>; Srinivasan, Prasanna <Prasanna\_Srinivasan@lord.com>; rudy.bukovnik@lord.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 <kenneth.aron@schneider-electric.com>; greg.myers@sensus.com; Dickerson, Paula <Paula.Dickerson@sensus.com>; yoichi.morishima@toshiba.co.jp; Liu, Peter (TIC) <Peter.Liu@toshiba.com>; Wente ZENG <wente.zeng@total.com>; Jae Lee (TEMA TTC) <jae.lee@toyota.com>; giuseppe.gatti@wicor.com;

Giuseppe Simioli <giuseppe.simioli@wicor.com>

**Cc:** Iqbal Husain <ihusain2@ncsu.edu>; Ewan Pritchard <egpritch@ncsu.edu>

**Subject:** [EXTERNAL] FREEDM: IAB Vote for Core Project for GEH Industry Support

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**Sandeep Bala** <sandeep.bala@us.abb.com>

Wed, Aug 9, 2017 at 8:14 AM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Cc: Iulian Nistor <lulian.nistor@us.abb.com>

Ken,

With the understanding that the budget request (60k) for this core FREEDM project is a small fraction of the available IAB funds (~800k), and that the technical results would be shared with all members, ABB votes Yes.

--

Sandeep Bala

[Quoted text hidden]

<Energy Management for Hybrid Microgrids.pdf>

**Gajda, John W** <John.Gajda@duke-energy.com>

Thu, Aug 10, 2017 at 7:43 AM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Ken, I vote YES.

John W. Gajda, P.E.

Manager, Operations Support

Distributed Energy Technologies

Duke Energy

411 Fayetteville Street, NC16

Raleigh, NC 27601

[John.Gajda@duke-energy.com](mailto:John.Gajda@duke-energy.com)

(919) 546-4697 –office

**From:** Ken Dulaney [mailto:ken\_dulaney@ncsu.edu]

**Sent:** Friday, August 04, 2017 6:13 PM

**To:** Iulian Nistor; Sandeep Bala; Gajda, John W; Chen, Kevin; geraldonojima@eaton.com; Yanniello, Robert; Stella, Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; Yoshinari IKEDA; Hayato Nakano; 叶田玲彦 / KANOUDA, AKIHIKO; yuichi.mabuchi.wz@hitachi.com; Heping Dai; Reznack, Andrew; Driscoll, Tim; Srinivasan, Prasanna; rudy.bukovnik@lord.com; Ettlinger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Arnie de Castro; Tim Fairchild; John Shea; Kenny Aron; greg.myers@sensus.com; Dickerson, Paula; yoichi.morishima@toshiba.co.jp; Liu, Peter (TIC); Wente ZENG; Jae Lee (TEMA TTC); giuseppe.gatti@wicor.com; Giuseppe Simioli

**Cc:** Iqbal Husain; Ewan Pritchard

**Subject:** FREEDM: IAB Vote for Core Project for GEH Industry Support

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As discussed during our meeting on Thursday, there is an item that requires official vote from the IAB to allocate funds from the membership pool.

[Quoted text hidden]

**Taylor, Paul J** <Paul.J.Taylor@fpl.com>

Fri, Aug 11, 2017 at 8:36 AM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Cc: "Critelli, Ron" <Ron.Critelli@fpl.com>

FPL votes Yes for the proposal.

Paul J. Taylor, PE

Manager – Design and Standards P&C Applications

Paul\_J\_Taylor@fpl.com

(561) 904-3354 tel

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**Sent:** Friday, August 04, 2017 6:13 PM

**To:** Iulian Nistor; Sandeep Bala; Gajda, John; Chen, Ke; geraldonojima@eaton.com; Yanniello, Robert; Stella, Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; Yoshinari IKEDA; Hayato Nakano; 叶田玲彦 / KANOUDA.

AKIHIKO; [yuichi.mabuchi.wz@hitachi.com](mailto:yuichi.mabuchi.wz@hitachi.com); Heping Dai; Reznack, Andrew; Driscoll, Tim; Srinivasan, Prasanna; [rudya.bukovnik@lord.com](mailto:rudya.bukovnik@lord.com); Ettlinger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Arnie de Castro; Tim Fairchild; John Shea; Kenny Aron; [greg.myers@sensus.com](mailto:greg.myers@sensus.com); Dickerson, Paula; [yuichi.morishima@toshiba.co.jp](mailto:yuichi.morishima@toshiba.co.jp); Liu, Peter (TIC); Wente ZENG; Jae Lee (TEMA TTC); [giuseppe.gatti@wacor.com](mailto:giuseppe.gatti@wacor.com); Giuseppe Simioli  
Cc: Iqbal Husain; Ewan Pritchard  
**Subject:** FREEDM: IAB Vote for Core Project for GEH Industry Support

CAUTION - EXTERNAL EMAIL

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**Please reply to this email with your vote Yes or No by August 11.** 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

[Redacted]

---

Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>  
To: Adam Gregory <[adam.gregory@pos-en.com](mailto:adam.gregory@pos-en.com)>

Wed, Aug 16, 2017 at 9:22 AM

Adam, quick reminder on this. Could you submit your vote today?

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



[Quoted text hidden]

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Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>  
To: "Darvishi, Atena" <[Atena.Darvishi@nypa.gov](mailto:Atena.Darvishi@nypa.gov)>

Wed, Aug 16, 2017 at 9:24 AM

Atena, could NYPA please submit their vote on this measure by the end of today?

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



On Fri, Aug 4, 2017 at 6:12 PM, Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)> wrote:  
[Quoted text hidden]

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Darvishi, Atena <[Atena.Darvishi@nypa.gov](mailto:Atena.Darvishi@nypa.gov)>  
To: Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>

Wed, Aug 16, 2017 at 9:41 AM

Ken,  
NYPA approves, thanks.  
Atena

---

**From:** Ken Dulaney [[mailto:ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)]  
**Sent:** Wednesday, August 16, 2017 9:25 AM  
**To:** Darvishi, Atena <[Atena.Darvishi@nypa.gov](mailto:Atena.Darvishi@nypa.gov)>  
**Subject:** [EXTERNAL]Re: FREEDM: IAB Vote for Core Project for GEH Industry Support

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**NYPA ALERT:** This is an external email. Use caution before clicking attachments or links. See below for more.

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Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>  
To: "Darvishi, Atena" <[Atena.Darvishi@nypa.gov](mailto:Atena.Darvishi@nypa.gov)>

Wed, Aug 16, 2017 at 9:48 AM

Got it. Thank you.

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



[Quoted text hidden]

Ken Dulaney <ken\_dulaney@ncsu.edu>  
To: Adam Gregory <adam.gregory@pos-en.com>

Thu, Aug 17, 2017 at 2:52 PM

Hey, forgot to ask about this today. Do you guys approve?

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



[Quoted text hidden]

Ken Dulaney <ken\_dulaney@ncsu.edu>  
To: Heping Dai <Heping.Dai@huawei.com>


Thu, Aug 17, 2017 at 3:57 PM

Heping, here's the original request for feedback on the GEH budget approval.

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



[Quoted text hidden]

 Energy Management for Hybrid Microgrids.pdf  
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Heping Dai <Heping.Dai@huawei.com>  
To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Thu, Aug 17, 2017 at 4:14 PM

That look interesting and I'd like vote YES.

**From:** Ken Dulaney [mailto:ken\_dulaney@ncsu.edu]  
**Sent:** Thursday, August 17, 2017 2:58 PM  
**To:** Heping Dai <Heping.Dai@huawei.com>  
**Subject:** Fwd: FREEDM: IAB Vote for Core Project for GEH Industry Support

[Quoted text hidden]

Ken Dulaney <ken\_dulaney@ncsu.edu>  
To: Heping Dai <Heping.Dai@huawei.com>

Thu, Aug 17, 2017 at 4:19 PM

Thank you.

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



[Quoted text hidden]

Ken Dulaney <ken\_dulaney@ncsu.edu>  
To: "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>

Thu, Aug 17, 2017 at 4:22 PM

Peter, I know we're asking a lot of you lately but could you review this budget request and send your response by tomorrow?

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



On Fri, Aug 4, 2017 at 6:12 PM, Ken Dulaney <ken\_dulaney@ncsu.edu> wrote:  
[Quoted text hidden]

Ken Dulaney <ken\_dulaney@ncsu.edu>  
To: Giuseppe.Gatti@wicor.com

Thu, Aug 17, 2017 at 4:23 PM

Giuseppe,

This may have become buried in your email. But could you review this budget request and send your response by tomorrow? Thank you.

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



On Fri, Aug 4, 2017 at 6:12 PM, Ken Dulaney <ken\_dulaney@ncsu.edu> wrote:  
[Quoted text hidden]

Adam Gregory <adam.gregory@pos-en.com>  
To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Fri, Aug 18, 2017 at 9:01 AM

After our discussion yesterday, I spoke with Dan. Let's go ahead and split the vote, 8 and 7 with 8 to Bhattacharya.

Best,

Adam Gregory  
Communications & Logistics  
adam.gregory@pos-en.com  
+1(919) 593-3145  
www.pos-en.com

**From:** Ken Dulaney [mailto:ken\_dulaney@ncsu.edu]  
**Sent:** Wednesday, August 16, 2017 9:23 AM  
**To:** Adam Gregory <adam.gregory@pos-en.com>  
**Subject:** Re: FREEDM: IAB Vote for Core Project for GEH Industry Support

[Quoted text hidden]

**Giuseppe.Gatti@wicor.com** <Giuseppe.Gatti@wicor.com>  
To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Fri, Aug 18, 2017 at 9:51 AM

Dear Ken,  
thanks in pointing out this email because, yes, it was buried in a pile of other mails and I did not mind it because I was out of office.

Frankly, I would need more details about this project, because I found a variety of similar studies in available literature and I do not understand what are the most important topics that this study should approach. On the other hand, I think that it is important for FREEDM to have the possibility to physically test a hybrid microgrid, because it would be the future for energy distribution and management.

At the end, I say yes for this project, but it is not clear to me if you are looking for economical support by Weidmann for funding this project. Please clarify.

Kind regards,

Freundliche Grüsse

Giuseppe Gatti  
Manager Engineering Consulting EA  
Engineering Chiasso

WEIDMANN ELECTRICAL TECHNOLOGY AG  
Corso San Gottardo 25  
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giuseppe.gatti@wicor.com  
www.wicor.com

From: Ken Dulaney <ken\_dulaney@ncsu.edu>  
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@fpj.com>, "Taylor, Paul J" <Paul.J.Taylor@fpj.com>, "Criteelli, Ron" <Ron.Criteelli@fpj.com>, Yoshinari IKEDA <ikeday@fujielectric.com>, Hayato Nakano <nakano-hayato@fujielectric.com>, 叶田玲彦 / KANOUDA, AKIHIKO <akihiko.kanoda.zz@hitachi.com>, yuichi.mabuchi.wz@hitachi.com, Heping Dai <heping.dai@huawei.com>, "Reznack, Andrew" <andrew.reznack@iron.com>, "Driscoll, Tim" <Tim.driscoll@iron.com>, "Srinivasan, Prasanna" <Prasanna\_Srinivasan@lord.com>, rudy.bukovnik@lord.com, "Eitlinger, Alan" <Alan.Eitlinger@nyqa.gov>, "Darvishi, Atena" <Atena.Darvishi@nyqa.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 <kenneth.aron@schneider-electric.com>, greg.myers@sensus.com, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, yoichi.morishima@toshiba.co.jp, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, Wente ZENG <wente.zeng@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, giuseppe.gatti@wicor.com, Giuseppe Simioli <giuseppe.simioli@wicor.com>  
Cc: Iqbal Husain <ihusain2@ncsu.edu>, Ewan Pritchard <egpritch@ncsu.edu>  
Date: 05/08/2017 00:13  
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As discussed during our meeting on Thursday, there is an item that requires official vote from the IAB to allocate funds from the membership pool.

The specific project scope is attached. This project is to support the Fellowship for Total. Recall from the bylaws that Full Members may elect to fund a Fellow to conduct research on a scope developed in coordination with faculty and the member company. The project considered a core project and supports the mission of the Center. The Full Member pays an additional amount (usually \$15k) to help offset the tuition, fees and stipend of the graduate student. The balance of the student funding comes from the membership pool. This means research results are shared with all members and any IP developed by the project follows the IP rules listed in the bylaws.

The amount requested is \$60k which when combined with Total's contribution will cover the Fellow expenses for two years.

**Please reply to this email with your vote Yes or No by August 11.** Let me know if you have any questions.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
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[attachment "Energy Management for Hybrid Microgrids.pdf" deleted by Giuseppe Gatti/CHECO/WETAG/Wicor]

**Ken Dulaney** <ken\_dulaney@ncsu.edu>  
To: Giuseppe.Gatti@wicor.com

Fri, Aug 18, 2017 at 11:47 AM

I apologize that this is confusing. It would be nice if I had time to send out the minutes from the meeting as part of this debate. We are not asking for additional funding from Weidmann. But according to our bylaws, we need approval from the IAB to allocate funds from the membership dues to fund this project. In reality, we are really just all agreeing to move some of Total's membership dues to fund their selected research fellow. Unfortunately, this is one of those bureaucratic issues we have to deal with as part of a university.

I appreciate your "Yes" vote. But let me know if you have any other questions. All the other members also voted yes.

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