



NEWSLETTER

Issue 5, December 2019



RDC2MT 3rd project workshop

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ABOUT RDC2MT

Research, Demonstration and Commercialisation of DC Microgrid Technologies (RDC2MT) is a four-year international collaborative research project (2017 to 2020) funded by EU H2020 RISE program, and aims to address new challenges of low voltage DC microgrids.



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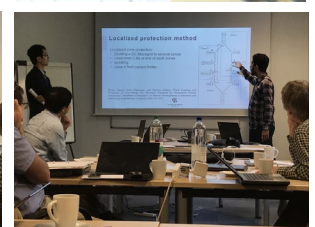
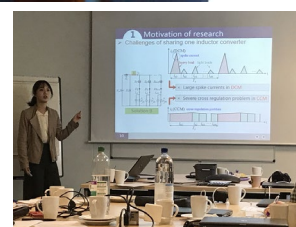
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 734796.

RDC2MT 3RD PROJECT WORKSHOP WAS HELD AT LOUGHBOROUGH UNIVERSITY

On 22nd October 2019, RDC2MT 3rd project workshop was held at Loughborough University. More than 20 researchers from 7 institutions attended the workshop.

The workshop includes four invited talks: Dr Dong Chen from Glasgow Caledonian University presented his work on "Control and operation of a DC distribution network", Dr Matthew Little from Loughborough University talked about his "Experience with a stand-alone DC microgrid demonstration system at West Beacon Farm". Mr. Navid Bayati from Aalborg University presented his research work on "Localized fault detection and location of DC microgrids". Dr Bing Ji from University of Leicester talked about "Eeliable power Electronics".

Four project presentations from project students were given after an open discussion session for the topic "why DC?". A training session on "how to write journal papers" was given by Dr Bing Ji of University of Leicester, who is the Editorial Coordinator & Editor of IET power electronics.



Project 3rd annual meeting

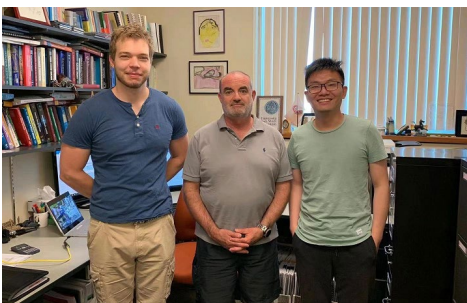
Visiting Pulse Building in TU Delft



Yufei in TU Delft library



Mladen presented in Zhejiang University



Nils and Fulong with Prof. Claudio



Yuwei and Lantao enjoy BBQ under rain

3RD RDC2MT ANNUAL MEETING WAS HELD AT TU DELFT

On 22nd August 2019, 3rd RDC2MT annual project meeting was held at TU Delft. Project team members from Loughborough University, Aston University, Shanghai University, CSEM and TU Delft attended meeting.

The project progress and future delivery plan were discussed. Dr Pierre Jean from CSEM gave a presentation on their DC microgrid demonstration site design and evaluation work recently completed.

After the meeting, some of the project members visited Pulse building of TU Delft. Pulse is the first energy-neutral building on the TU Delft campus, and a DC system is used to connect everything that works on direct current (DC).

RDC2MT PROJECT HAS MADE A GOOD SECONDMENT IMPLEMENTATION

RDC2MT project has made a good secondment implantation in the third year of the project. 27 person-months secondment have been implemented by 13 researchers, which including 5 female researchers and 9 early career researchers. This good progress keeps the RDC2MT project's secondments completion rate as high as 100% at October 2019.

Yufei Li: 5 PM from Shanghai University to TU Delft

Jintao Lei: 3 PM from Zhejiang University to TU Delft

Fulong Li: 4 PM from Aston University to University of Waterloo

Nils van der Blij: 2 PM from TU Delft to University of Waterloo

Mladen Gagić: 3 PM from TU Delft to Zhejiang University

Lantao Huang: 2 PM from Xiamen University to Loughborough University

Yuwei Liu: 3 PM from Xiamen University to Loughborough University

Keke Zhao, 4 PM from Zhejiang University to Loughborough University

Yongwen Gu, 3 PM from Zhejiang University to Loughborough University

NEW PUBLICATIONS

Fulong Li, Zhengyu Lin, Zhongnan Qian, Jiande Wu, and Wei Jiang, "A Dual-Window DC Bus Interacting Method for DC Microgrids Hierarchical Control Scheme", IEEE Transactions on Sustainable Energy, early access ([Zenodo download](#))

Jintao Lei, Zian Qin, Wuhua Li, Pavol Bauer, and Xiangning He, Modelling of Output Admittance Coupling Between Shunt Active Power Filters and Non-linear Loads, the 4th IEEE Workshop on the Electronic Grid (eGrid 2019), Xiamen China, Nov 2019 ([Zenodo download](#))

CALL FOR PAPERS

We are organising a special session on "Advanced Technologies for DC microgrid Plug-and-Play Operations" in The 29th IEEE International Symposium on Industrial Electronics (ISIE 2020), which will be held in 17-19 June 2020, Delft, The Netherlands. Full paper submission deadline is 31st Jan 2020. More details can be found:

<http://isie2020.org/special-sessions.php#05>