



NEWSLETTER



Issue 1, October 2017

RDC2MT 1ST 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) aims to address new challenges of DC microgrids in the applications of DC powered houses and DC distribution networks.

1ST PROJECT ANNUAL MEETING AND WORKSHOP

The first RDC2MT project annual meeting and workshop was held on 5th and 6th September 2017 in TU Delft.

In the annual meeting, the [project progress](#) was reported, tasks for the next 12 months were reviewed, and actions to improve the project implementation were discussed.

In the workshop, Prof. Canizares from University of Waterloo gave a talk on "Overview of Remote Microgrid Research", and Prof. Bauer from TU Delft gave a talk on "From DC Buildings to a DC Distribution and Transmission - Roadmap for DC Systems". After a TU Delft DC System group laboratory tour, Dr Xuan from Heriot-Watt University gave a presentation on "Fuel Cell based CHP for DC house and microgrids". Two Ph.D students Fulong Li from Aston University and Ruichi Wang from Zhejiang University presented their research work done during their secondments. A discussion session was arranged for consortium members to share the experience and the best practice for the secondments.



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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.



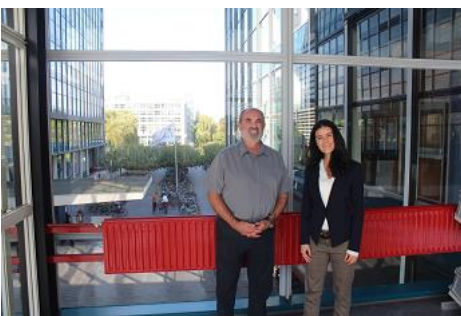
Project kick off meeting



Zhongnan Qian in Aston University



RDC2MT in ICDCM conference



Prof Canizares in TU Delft



A world first office building on DC grid

WHAT WE HAVE DONE SO FAR (FEB -- SEP 2017)

1st Feb 2017: RDC2MT project officially started.

1st Feb 2017: 1st secondment started, Ph.D student Zhongnan Qian from Zhejiang University was seconded to Aston University for 2 months.

2nd March 2017: Dr Zhengyu Lin attended coordinator's day meeting in the European Commission Brussels, and met EU project advisor.

3rd March 2017: Project kick off meeting was held in TU Delft.

April 2017: RDC2MT project first secondment completed.

1ST May 2017: Project website www.rdc2mt.org was released.

June 2017: RDC2MT consortium members attended ICDCM 2017.

July – September 2017: More secondments started:

Prof Fengyan Zhang from Xiamen University to CSEM

Ph.D students Fulong Li and Muhannad Alshareef from Aston University to DCBV for industrial training

Ph.D student Ruichi Wang from Zhejiang University to Aston University

Prof Claudio Canizares from University of Waterloo to TU Delft

Ph.D students Meltiani Belekoukia and Evangelos Kalamaras from Heriot-Watt University to DCBV for industrial training

September 2017: 1st Project Workshop was held in TU delft.

PUBLICATIONS

Ruichi Wang, Jiande Wu, Zhongnan Qian, Zhengyu Lin, and Xiangning He, 'A graph theory based energy routing algorithm in Energy Local Area Network (e-LAN)' IEEE Transactions on Industrial Informatics, vol in press ([Zenodo download](#))

Fulong Li, Zhengyu Lin, Zhongnan Qian and Jiande Wu, "Active DC Bus Signaling Control Method for Coordinating Multiple Energy Storage Devices in DC Microgrid", IEEE second International Conference on DC Microgrids (ICDCM), June 2017, Nürnberg, Germany ([Zenodo download](#))

CONSORTIUM NEWS

On 5th Sep 2017, a world first office building on DC grid, the Circl, was officially opened at the Gustav Mahlerplein in Amsterdam. The DC grid and components are developed by RDC2MT consortium member DCBV ([Full story](#)).

Next project workshop will be held in June 2018, contact us if you are interested to attend.
