



MULTI-LAYER AGGREGATOR SOLUTIONS TO FACILITATE OPTIMUM DEMAND RESPONSE AND GRID FLEXIBILITY (SMART-MLA)

Third meeting on SMART_MLA

Time: 20 September 2019

Venue: The Marmara Hotel, Antalya, Turkey.

1. Agenda

08.45-09.00	Welcoming and opening	
09.00-09.45	Optimization algorithms design and development (Updates on WP2 - Task 2.a.1)	EPRA Contributors: All
09.45-10.45	Optimization algorithms design and development (Updates on WP2 - Task 2.a.2 & Task 2.a.3)	DTU Contributors: All
10.45-11.00	Task 2.c. Data provision (sample data from real world)	EPRA Contributors: All
11:00-11:15	Coffee break	
11.15-11.45	Task 2.d. Forecasting algorithms (demand and renewable generation)	BUES (online) Contributors: All
11.45-12.30	Discussions on the interrelation of WP2 with the other WPs	All
12.30-13.30	Lunch Break	
13.30-14.15	Monitoring and control (hardware, software, telecommunication, devices, standards) (Updates on WP3 - Task 3.b)	KTH Contributors: All
14.15-15.15	Task 2.b.1. Smart, flexible contracts blockchain implementations	USN Contributors: All
15.15-15.30	Coffee Break	
15.30-16.15	Design and development cloud-based web-service application tool (Updates on WP3 - Task 3.a)	BUES (online) Contributors: All
16.15-17.30	Targets, timeline, next steps, recommendations, next meetings	All



2. List of participants

First name	Last name	Institution	Country
Osman Bulent	Tor	EPRA	Turkey
Saeed	Teimourzadeh		
Lasse	Berntzen	USN	Norway
Thomas	Brekke		
Murat	Kisakurek	AKEDAS DSO	Turkey
Ali Osman	Köksal		
Elif Naz	Kurşuncu		
Onur	Tanriverdi		
Xiaolong	Jin	DTU	Denmark
Ming	Xiao	KTH (online)	Sweden
Adela	Bara	BUES (online)	Romania
Simona Vasilica	Oprea		
Ionut	Taranu	Stimasoft (online)	

3. Discussed items and decisions

- Brief introduction on participants was made to orient the new members.
- Outline, scope and current status of the project was reviewed by Dr. Osman Bulent Tor as the project manager.
- It was stated that more online meeting are in essence for keeping the project as update as possible.
- The community aggregator (layer 1 of Task 2) model and associated demo was presented by Dr. Saeed Teimourzadeh and the comments and feedbacks of participate was discussed. The source formulation and codes behind the interface was discussed with participants.
- It was recommended to use Nordpool data at the devised community aggregator tool.
- It was recommended to investigate possibility of adding heater\cooler as another flexible load to the devised community aggregator tool.
- Prof. Lasse Berntzen presented some studies on different tariff mechanisms.
- Dr. Adela Bara and Dr. Simona Oprea made online presentation regarding different algorithms they devised for renewable energy and demand forecast.
- It was stated that the data format BUES needs feedback from other participants regarding the data attributes and constraints for the relational database. EPRA and DTU will contact with BUES regarding this subject.
- It was recommended to design a data flow outline to coordinate the data flow between the algorithms devised by different partners of the project.
- It was asked from Stimasoft to sort the publication in chronological order and explicitly define the type of article (Journal\conference).



- APA citation format in google scholar platform is selected to be used for reporting the reporting the publications in SMART-MLA website.
- Prof. Xiao Ming updated the participants regarding the progresses happened at KTH side.
- Dr. Xiaolong Jin presented the outline of their study for layer 2 and 3 of Task 2. The mechanisms envisioned for steering the prosumer towards the optimal operation plan was discussed. In addition, the structure of layer 2 and Layer 3 and their relationship was presented.
- Dr. Thomas Brekke and Prof. Lasse Berntzen presented the fundamentals and outline of their study on blockchain and business model development.
- It was stated that using blockchain costs more than its benefits and more investigation on this subject is of great significance.
- It was decided to make to make monthly regular teleconferences. The first one would be 14 October 2019, the second one would be 11 November 2019, and the third one 9 December 2019 all 5 PM Istanbul time (3:00 PM CET). EPRA will share the link for call.
- Next meetings for the consortium was planned:
 - Second week of January 2020, Bucharest (Romainia) or kahramanmaraş (Turkey) – will be decided;
 - 31 March 2020 stackholder Workshop at Norway
 - 1 April 2020 SMART-MLA fifth meeting.



4. To do List

Task	Responsible Partner	Deadline
Using Nordpool data at the devised community aggregator tool.	EPRA	Next in person meeting
Investigate possibility of adding heater\cooler as another flexible load to the devised community aggregator tool.	EPRA	Next in person meeting
Design a data flow outline to coordinate the data flow between the algorithms.	EPRA, DTU, BUES, KTH	Late October 2019.
Sharing second meeting presentations files	All	Late September 2019.
Investigating Homer Energy tool	EPRA & DTU	Next in person meeting
Bilateral contacting of EPRA and DTU regarding WP2 and optimization model	EPRA-DTU	Bilateral coordination by EPRA and DTU
More investigation on blockchain	USN	Next in person meeting
Update of the project website with second meeting materials	Stima Soft	Late September 2019.
Data Table preparation for Task 2.1	EPRA	End of September 2019
Data Table preparation for Task 2.2 and 2.3	DTU	End of September 2019
Sending calendar invitation for regular telcos for blocking the dates: <u>14 October 2019, the second one would be 11 November 2019, and the third one 9 December 2019 all 5 PM Istanbul time (3:00 PM CET).</u> (Please check the time and confirm)	All-EPRA	Late September 2019.
Organization of the next in person meeting at second week of January 2020	EPRA-BUES-AKEDAS	Late November 2019