IBPSA Project 2: BOPTEST
Task 2
Virtual Progress Meeting

07/23/2024
10:00 AM – 11:00 AM U.S. Eastern Time

Participation

David Blum	LBNL
Ettore Zanetti	LBNL
Jaap Neven	KU Leuven
Zhe (Walter) Wang	Hong Kong University of Science and Technology
Xing Lu	PNNL
Laura Zabala	R2M
David Wolfle	FZI
Jan Marco Ruiz de Vargas	Technical University of Munich
Mingzhe Liu	Texas A&M
Guowen Li	Texas A&M
Javier Arroyo	Wedoco

Agenda
1. Weather forecast uncertainty [Laura and Zhe]
   - Paper still being reviewed.
   - Laura and Dave reviewing code. Dave to finish review and Laura to merge PR on her fork.
   - Think on next steps. Additional testing with new data and metrics suggested before. Temperature and solar irradiation are most impactful, maybe consider relative humidity in future.
   - David W willing to help.
2. Repo Refactor [Dave]
   - Dave and Kyle working on merging Service architecture to IBPSA repo
   - Kyle finished merged Service commit history
   - Dave needs to finalize update to documentation and Kyle and Dave need to make tests pass (issue with return of an HTTP 400 error)
3. Online Dashboard and Service [Dave/Kyle/Harald]
   - ADRENALIN is underway, see https://adrenalin.energy/
4. DOPTEST [Javier]
   - KPI Disaggregation PR – reference results change in /submit API. Javier still to look at what is going.
5. OpenModelica compilation testing and library updates [Ettore]
   - Of ones that are already released, all simulating in Dymola and Optimica, most simulating OpenModelica.
     i. Willing to update controls a bit for complex models to run with OpenModelica?
   - Still need to check FMU compilation and not just simulation for all tools.

- How to make fixes to models and manage with update to Modelica 4 libraries. ==Ettore== to make list of issues for each test case for 1) Modelica 4 updates and 2) other issues that have come up.

6. Semantic modeling [Ettore]
    - Started implementing semantics in multizone_simple_air_office and almost done. Need to work with team at LBNL to fully parse it.

7. New KPI – Actuator Travel [Xing and Jan Marco]
    - Had meeting with Dave and Ettore to discuss initial implementation. ==Xing== addressing comments. ==Xing and Jan== discussing on new workflow for updated Modelica overwrite/read block and parser file for new test cases. Will need to transition current workflow to new workflow for existing test cases.

8. Ideas for new initiatives [All]
    - None mentioned.