

Integrated Energy Systems (IES) Tools: Capability Overview and Training

March 17 and 18, 2022

March 23 and 24, 2022

Attire: Business Casual

Day 1: Thursday, March 17, 2022

Introduction

08:00	Welcome	Aaron Epiney <i>IES M&S Lead, (208) 526-0726</i>
08:10	IES Program Overview	Shannon Bragg-Sitton <i>IES National Technical Director, (208) 526-2367</i>
09:00	Framework for Optimization of Resources and Economics (FORCE) Overview	Aaron Epiney <i>IES M&S Lead, (208) 526-0726</i>
	Holistic Energy Resource Optimization Network (HERON)	Paul Talbot <i>HERON Owner and Technical Lead, (208) 526-5425</i>
	HYBRID	Konor Frick <i>HYBRID Owner and Technical Lead, (208) 526-1663</i>
10:30	Introduction to Markets	Jason Hansen <i>Senior Research Economist, (208) 526-7441</i>
11:00	Adjourn	

Host: Aaron Epiney
Admin: Brenda Monson

Revision Number: 7
Date agenda revised: 03/15/2022

Day 2: Friday, March 18, 2022

Economics, Dynamic Control, Advanced Visualizations, Use Cases, and Experiments

08:00	Welcome	Aaron Epiney <i>IES M&S Lead, (208) 526-0726</i>
08:10	Tool for Economic AnaLysis (TEAL)	Elizabeth Worsham <i>Systems Integration Engineer, (208) 526-5218</i>
08:40	Feasible Actuator Range Modifier (FARM).....	Haoyu Wang <i>Nuclear Engineer, (630) 252-1548</i>
09:10	Advanced Visualization	Scott Greenwood <i>Senior Engineering Researcher, (303) 358-7627</i>
09:30	IES Demonstration Cases.....	Konor Frick <i>HYBRID Owner and Technical Lead, (208) 526-1663</i>
10:30	IES Experimental Program.....	TJ Morton <i>Plant Engineering Lead, (208) 526-2650</i>
11:00	Adjourn	

Day 3: Wednesday, March 23, 2022

HERON

08:00	Welcome	Aaron Epiney <i>IES M&S Lead, (208) 526-0726</i>
08:10	Purpose, Inputs, and Outputs.....	Paul Talbot <i>HERON Owner and Technical Lead, (208) 526-5425</i>
09:10	Synthetic History Training	Dylan McDowell <i>Computational Scientist, (208) 526-3924</i>
10:10	Demonstration.....	Dylan McDowell <i>Computational Scientist, (208) 526-3924</i>
11:00	Adjourn	

Day 4: Thursday, March 24, 2022

HYBRID

08:00	Welcome	Aaron Epiney <i>IES M&S Lead, (208) 526-0726</i>
08:10	Introduction to Modelica and HYBRID.....	Konor Frick / Daniel Mikkelson <i>HYBRID Owner and Technical Lead, (208) 526-1663</i> <i>Systems Integration Scientist, (208) 526-9092</i>
09:10	Break	
09:20	Model development.....	Daniel Mikkelson <i>Systems Integration Scientist, (208) 526-9092</i>
10:20	Break	
10:30	HYBRID for Analysts	Konor Frick <i>HYBRID Owner and Technical Lead, (208) 526-1663</i>
11:20	Break	
11:30	High/Low Fidelity Model Coupling Through Functional Mock-up Interface/ Functional Mock-up Unit (FMI/FMU)	Wes Williams <i>Group Leader of Advanced Reactor Systems at ORNL, (617) 416-4286</i>
12:00	Adjourn	