



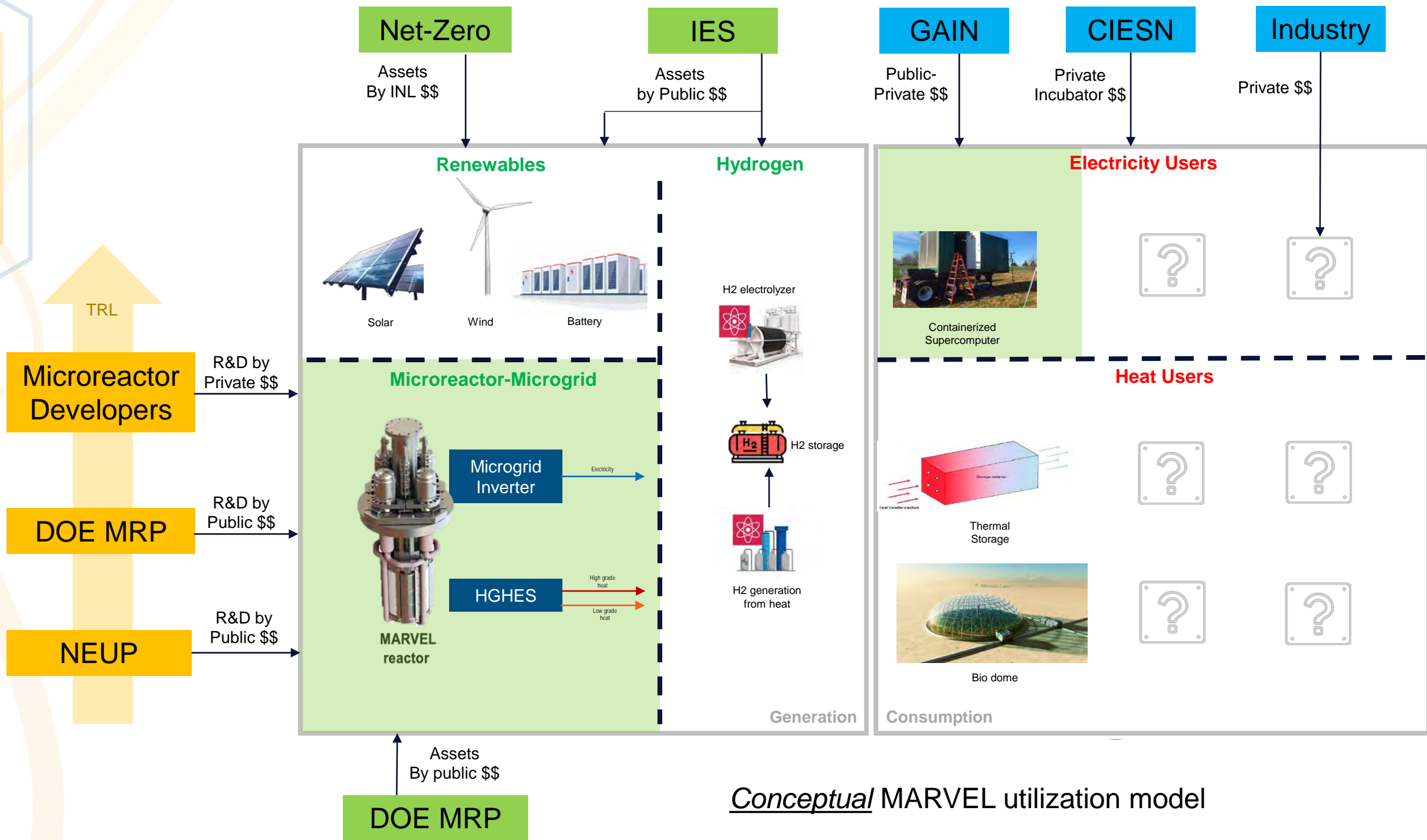
The MARVEL Microreactor

Utilization – Summary and path forward

2022 MARVEL Technology Review

October 19th – 20th , 2022

John Jackson, Ph.D. | National Technical Director, DOE MRP



Summary/philosophy of the day

- It's 2024 and MARVEL has successfully started up, now what?
- How to provide data and operational experience?
 - Initial planned testing
 - Sensors and systems
- What are the ways to integrate MARVEL?
 - Integrated Energy Systems: MARVEL possibilities
 - Connecting to a microgrid
 - Hydrogen production using MARVEL process heat/electricity
 - Net-Zero proof of principle
- How do we access MARVEL as a test facility?
 - Oh man! Not *another* RFP!
 - We'll provide some seed ideas – you run with it.



<https://kissflow.com/digital-workplace/collaboration/business-collaboration-guide/>

What do you want from
MARVEL?



Industry Needs/Feedback to Inform MARVEL Testing Requirements and Schedule

- **What test needs do you have with MARVEL?**
 - Reactor & Instrumentation
 - Control & HMI
 - Microgrid
- **When do you need to perform these tests?**
 - Q3-Q4, CY24 (MRP tests)
 - Q1-Q2, CY25
 - Q3-Q4, CY25
 - Q1-Q2, CY26
- **Call to action: Fill out the [pre-engagement questionnaire](#)**

Questions?

