

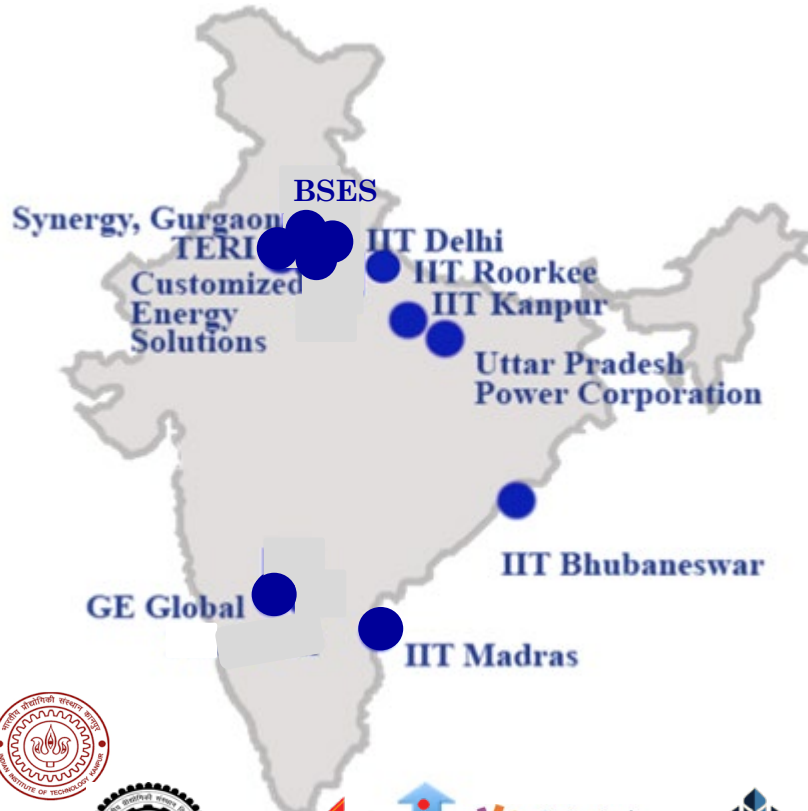


Summary Outline

UI-ASSIST: US-India collAborative for smart diStribution System wlth Storage is a 6 year, \$30M project that is finishing on October 1, 2023.

- WSU is US lead with 15 organizations across US.
- Project involved R&D to lab demonstrations to field demonstrations as well as policy and social impact research
- Many collaborations including India-India partners, US-US partners and India-US partners.
- US Field Demonstrations and Industry Interactions
 - AVISTA University District, Spokane, WA
 - WSU Pullman Battery Backup, Pullman, WA
 - Snohomish PUD, Everett, WA
 - Collaboration with Tulalip Tribes [Student microgrid project brings sustainability, resilience to Tulalip Tribes – WSU Insider](#)
 - Orcas Power & Light Co-op, San Juan Islands, WA
- India team helped electrify two hamlets for first time.

PROJECT TEAM

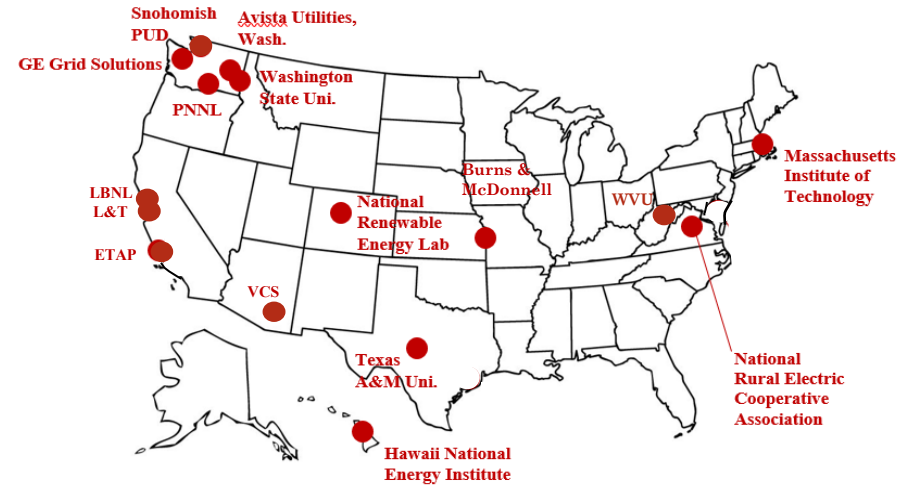


India Leads
S. Mishra
A. Sharma

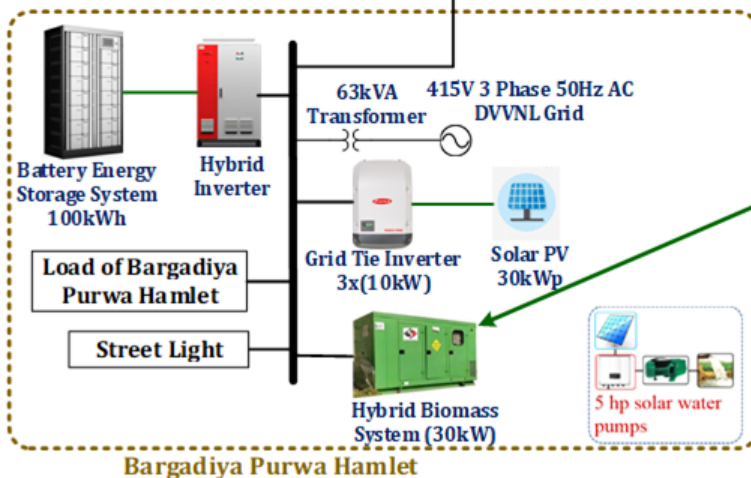
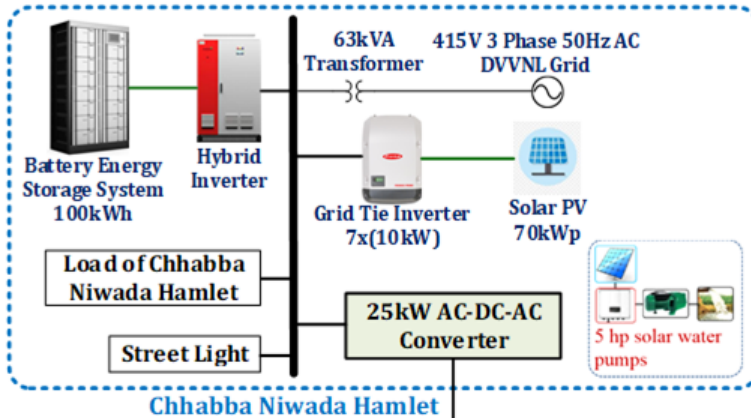
US Leads
N. Schulz
A. Srivastava



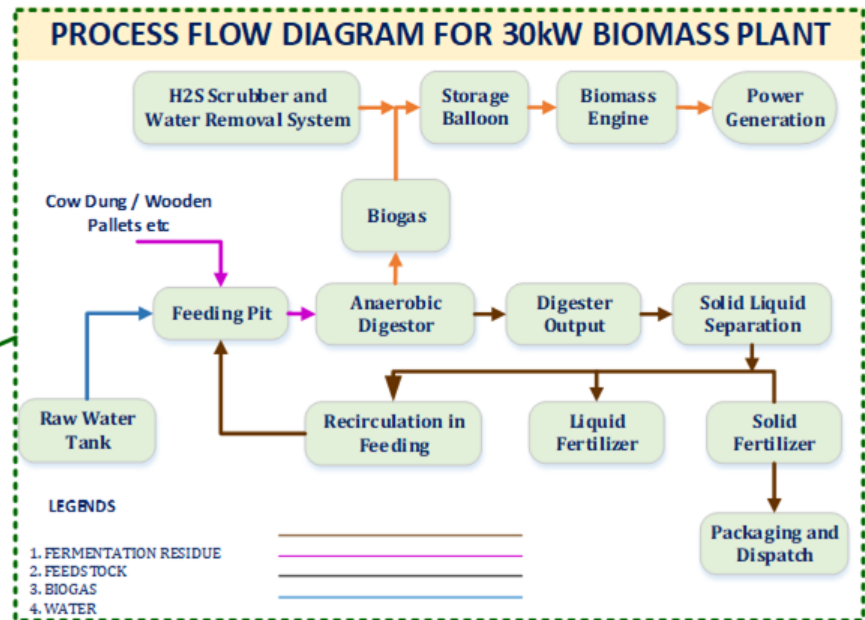
● Red Indicates Team in USA ● Blue Indicates Team in India



RURAL PILOT-SCHEMATIC AND RECENT ACTIVITIES

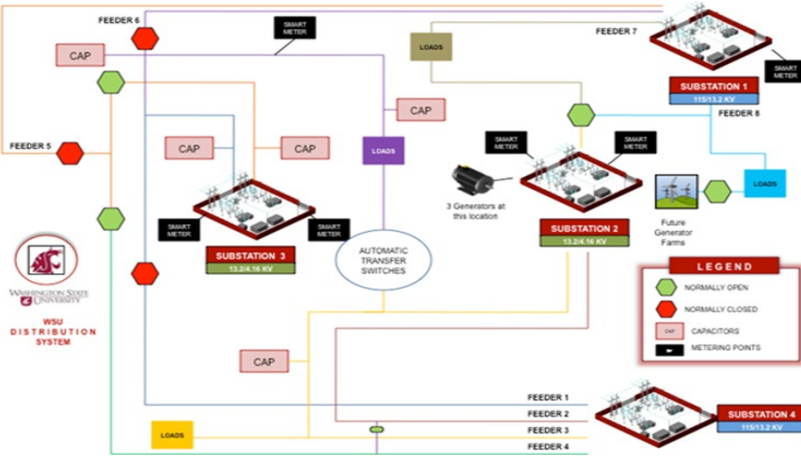


- **New Community Management Model: Through a local society, already approved.**
- **Single Point metering by utility in each hamlet.**

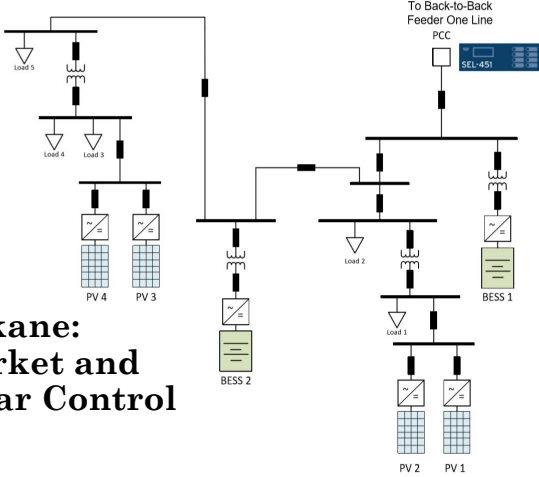




US Pilot Demonstration Projects 2022-2023



WSU: Microgrid and Battery integration



**AVISTA-Spokane:
Distribution Market and
Distributed Volt/Var Control**

BEYOND UI-ASSIST PROJECT



Synergy between UI-ASSIST and other funded projects across all India and US partners for leveraging advances as well as additional testing and validation opportunities.

Testbeds across multiple institutions provide foundation for continued collaborations.

Field demonstration relationships enhanced ***university-research lab-technology and service provider-utility-end user relationships*** and built trust and communication channels for dialog in future.

Solutions from UI-ASSIST partners included ***modifying existing systems as well as developing new solutions for advanced distribution systems and microgrids*** providing alternatives for a variety of situations worldwide.

Identification of gaps and challenges in ***policy, market structures and interactions, technical standards and practices, and societal understanding*** in two countries helps develop priorities and roadmap for next steps.

Unique framework for ***transforming R&D activities to the field demonstrations*** including lessons learned for team dynamics and interactions especially during worldwide pandemic.