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Transactive Campus Energy Systems: An R&D Testbed for Renewables Integration, Efficiency, and Grid Services - CRADA 356 (Abstract)

CRADA 356 (PNNL 74141) (PNNL 68021)

October 2023

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Washington State Department of Commerce

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Abstract

Under this Cooperative Research and Development Agreement (CRADA), the project team consisting of Pacific Northwest National Laboratory (PNNL), acting on behalf of the U.S. Department of Energy, and the University of Washington (UW) and Washington State University (WSU), acting under the purview of the State of Washington's Department of Commerce (the "industrial" partner), will connect the PNNL, UW, and WSU campuses to form a multi-campus test bed for transaction-based energy management – transactive – solutions (see sidebar). Building on the foundational transactive system established by the Pacific Northwest Smart Grid Demonstration (PNWSGD), it is proposing to construct the test bed as both a regional flexibility resource and as a platform for R&D on buildings/grid integration and information-based energy efficiency.

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