



# Hawai'i Natural Energy Institute Research Highlights

## International Support

### Mapping of Renewable Energy Sector Innovation System

**OBJECTIVE AND SIGNIFICANCE:** Under funding of its Asia Pacific Regional Energy System Assessment (APRESA) program (see “[APRESA](#)” project summary), HNEI is providing financial support and guidance to the National Institute for Science and Technology Policy and Strategy Studies (NISTPASS) to map the innovation system in the renewable energy (RE) sector in Vietnam. While the development of renewable energy resources in Vietnam is a government priority, there is lack of clarity about the role of many organizations in Vietnam impacting energy development and the relationship between them. An objective of this work is to identify which Vietnamese stakeholders in the RE sector can benefit from further policy and institutional support.

**BACKGROUND:** With rapidly growing industrialization and modernization of the economy, energy demand in Vietnam has increased rapidly between 2016-2020 and is predicted to increase by eight percent per annum through 2030 resulting in a four-fold increase in total electricity demand compared to 2014. To meet the aggressive government goals associated with RE innovation, the project is focused on identifying relevant organizations in the sector and understanding how they interact with each other and as a system. The analysis will involve an exhaustive review of energy producers, energy consumers, business systems, educational and research systems, policies,

regulations and statutes, and infrastructure developers. The project began in August of 2019 and is scheduled for completion in September of 2023.

**PROJECT STATUS/RESULTS:** In 2022, NISTPASS completed interviews with key players in the four groups of stakeholders in the renewable energy sector in Vietnam, focusing on solar and wind energies. The interviews have yielded 21 overall trends and findings ranging from opportunities in the supply side of the sector innovation system to the impacts of environmental factors and the COVID-19 pandemic.

NISTPASS is currently preparing a final report summarizing results of RE innovation mapping for Vietnam and will announce plans for an international workshop/conference in Honolulu during the Spring of 2023 to review the results and explore next steps. A summary report of the outcome of the international workshop and the issuance of two publications containing research results in both the Vietnamese and English language will conclude the project.

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