



# Hawai'i Natural Energy Institute Research Highlights

## International Support

### Vietnam: Mapping of Renewable Energy Sector Innovation System

**OBJECTIVE AND SIGNIFICANCE:** Under funding of its Asia Pacific Regional Energy System Assessment (APRESA) program, 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 in regard to the role of many organizations in Vietnam impacting energy development and the relationship between them. One of the objectives of this work is to identify key stakeholders in the RE sector for 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. Under Vietnam's Revised National Power Development Master Plan for the 2011-2020 period, the share of RE is anticipated to significantly accelerate beyond the 10 percent goal previously set for 2030. 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 December of 2022.

**PROJECT STATUS/RESULTS:** By November of 2021, NISTPASS completed a second round of interviews of stakeholders in the renewable energy sector in Vietnam, focusing on solar and wind energies. The interviewed stakeholders in two rounds of interviews, were divided into 4 groups: (i) government agencies; (ii) academic organizations, such as R&D organization and universities; (iii) companies; and (iv) intermediary organizations.

The interviews have yielded 21 overall trends and findings ranging to opportunities in the supply side of the sector innovation system to the impacts of environmental factors and the COVID-19 pandemic.

*Funding Source:* Office of Naval Research

*Contact:* Mark B. Glick, [mbglick@hawaii.edu](mailto:mbglick@hawaii.edu)

*Last Updated:* November 2021

