



GOVERNOR'S OFFICE OFFICE of PLANNING AND RESEARCH

Integrated Feedstock Aggregation and Mapping Tool – Project Summary

May 5, 2022

Project Lead: Cal Poly San Luis Obispo Dx Hub

Total Project Funding: \$350,000.00

Project Team: Under the direction of OPR and the Cal Poly San Luis Obispo Dx Hub project team, sub-grantees (UC Davis and Cal Poly Humboldt) will collaborate with project lead to develop and produce project deliverables.

Project Description: OPR has offered a joint award through an interagency agreement of \$350,000.00 to UC Davis, Cal Poly Humboldt and Cal Poly San Luis Obispo, to finance the integration of existing forest management tools into a comprehensive feedstock aggregation and mapping tool. Leveraging previous state investments made by the California Energy Commission (CEC), OPR in collaboration with its technology partners, desires to integrate the existing California Biomass Residue Emissions Characterization (C-BREC) model by Cal Poly Humboldt, the Forest Resources and Renewable Energy Decision Support System (DSS) by UC Davis, with a digital marketplace for woody feedstock at Cal Poly SLO (currently under development). Combining these tools into a single platform for the OPR Pilots can provide the digital infrastructure and data needed for feedstock aggregators to assess carbon intensity of feedstock mobilization, model economics of feedstock harvest and transportation and connect buyers and sellers of woody feedstock. Overall, this tool will be designed to improve feedstock supply chain logistics on all relevant land types, including private and non-commercial lands.

Project Scope:

- **Task 1:** Determine what updates or improvements (i.e. software or programming) will be needed to export and integrate each existing tool and its functions onto a shared platform (UC Davis and Cal Poly Humboldt teams).
 - Identify software or programming updates and/or improvement needs.
 - Complete software or programming updates and/or improvement needs.
 - Prepare tools for export to shared platform.
- **Task 2:** Design and Build Digital Marketplace Tool (Cal Poly SLO team).
 - Finalize tool functions and design.
 - Build functions.
 - Prepare tool for export to shared platform.
- **Task 3:** Determine shared platform and host site (all teams).
 - Identify appropriate host and/or domain.
 - Develop an integrated platform design.
 - Build shared platform.
 - Export each tool and its functions to shared platform.
 - Draft platform maintenance and hosting guidelines.