



Energy-Just Local Capacity Management Solutions

Problem Statement

A 100% decarbonized future will require electrification and clean energy deployments that could worsen energy-justice inequalities and stress the power grid locally

Can we define **energy-justice** and **equity metrics** in the design and evaluation of **replicable, local** and **sustainable peak-load management solutions**?

Proposed Activities

1. Engage and hire in the Hyde Park neighborhood (Boston, MA) to collect data, with a focus on greenhouse gas **emissions** and local air pollutants, **energy burden** and **equity**, transportation and **local grid constraints**, and **community input**
2. Create community-centric focus groups and define local metrics to quantify the **current** environmental and energy-bruden **inequalities** experienced by **minority, low-income and English isolated** members in the Hyde Park community
3. Utilize state-of-the-art data analytics and visualization techniques to design **sustainable programs** that can reduce existing burdens and **increase** local access to **clean energy**, while predicting their impact on infrastructure **peak-load**

Team	Role
Kevala	Data analytics and visualization
All in Energy	Community outreach and inclusive clean energy experts
PowerOptions	Community members and energy program design
TSK Energy Solutions	Energy-Justice metrics

Advisors	Role
Eversource	Grid planning and community relations
Boston Planning & Development Agency	Community planning and outreach
Advanced Energy Group	Stakeholder coordination

