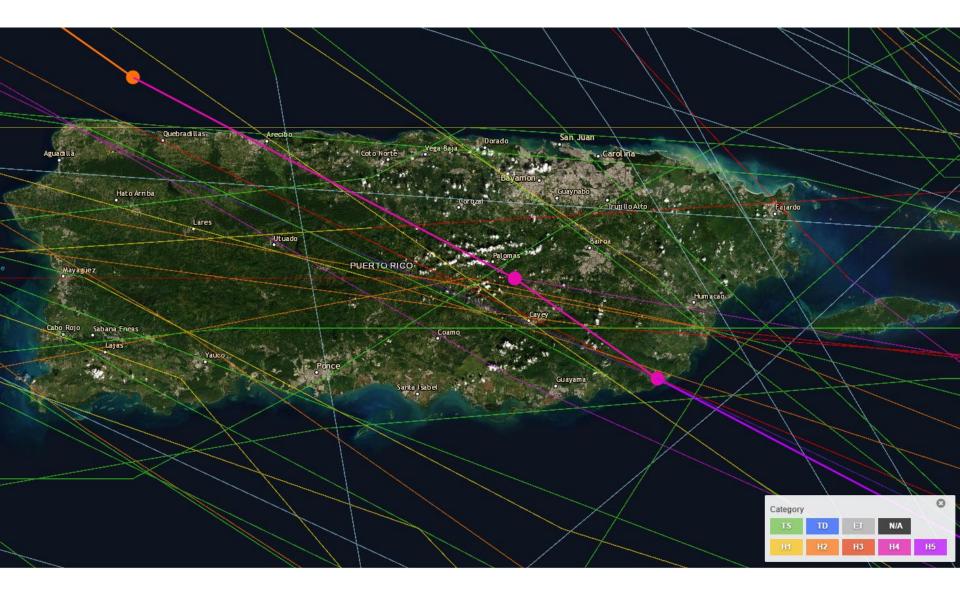
Beyond Recovery to Energy Democracy

Ruth Santiago, JD,LLM El Puente-Latino Climate Action Network, Comité Dialogo Ambiental, Inc.





Impacts of Hurricane Maria

- Estimated 80% of the transmission and distribution systems seriously damaged. Prof. Efrain O'Neill,PhD,UPRM
- Estimated 50,000 poles, 500 transmission towers down. USACE
- Knocked out 100% power
- Communications failure
- "Generator Island" diesel fumes, high noise levels
- Immense human suffering and deaths.



Central Station Fossil Fueled Generation Vulnerable to Earthquakes, Floods, Sea Level Rise, etc

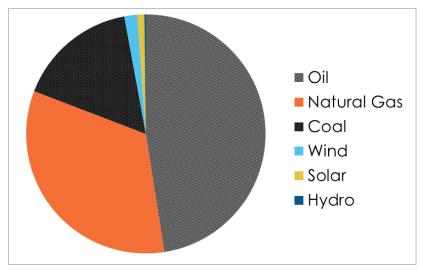








Puerto Rico Current Energy Mix



- ~33% Bunker C Residual Oil/Diesel
- ~43% "Natural" Methane Gas
- ~20% Coal
- ~2% Renewables





PREPA'S INTEGRATED RESOURCE PLAN



REBUILD THE EXISTING SYSTEM?



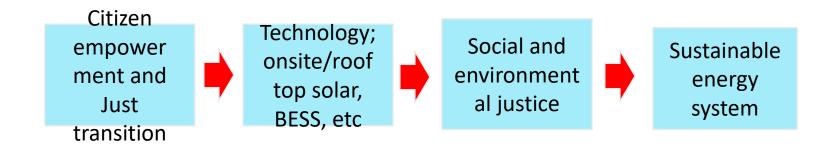
www.QueremosSolpr.com

SOSTENIBLE. LOCAL. LIMPIO

man Columburgh

Beyond technology: sustainable energy through community mutual aid and PREPA transformation

- Community shared solar: A system that provides electric power and socio-economic benefits to a community.
- Solar communities: Potential for local socio-economic development through technology, citizen empowerment, environmental and social justice, aligned with sustainable energy principles.

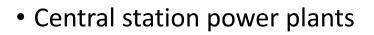


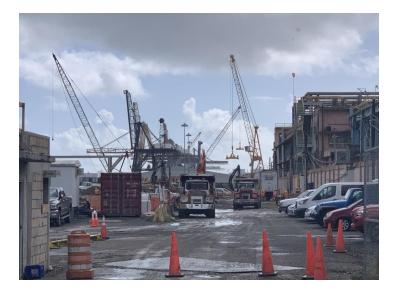
VIABILITY OF ON-SITE SOLAR, BESS

- The draft Integrated Resource Plan (IRP) prepared by Siemens Industry, Inc for the Puerto Rico Electric Power Authority (PREPA) indicates that the unit costs for all customer alternatives considered are lower than the final all-in (ESM and S4S2) generation portfolio rates. (Pages 8-30 and 8-46 of the 6/2019 IRP draft). The cost of customer owned generation is significantly lower than the total rate of PREPA's preferred plans.
- Expert consensus on economic and technical viability of roof-top, onsite solar generation and battery energy storage systems (BESS) in Puerto Rico at the technical hearings for PREPA's IRP held Feb. 3-7, 2020.

Transition? New Fortress Energy-NFEnergia Conversion SJ 5&6 Methane

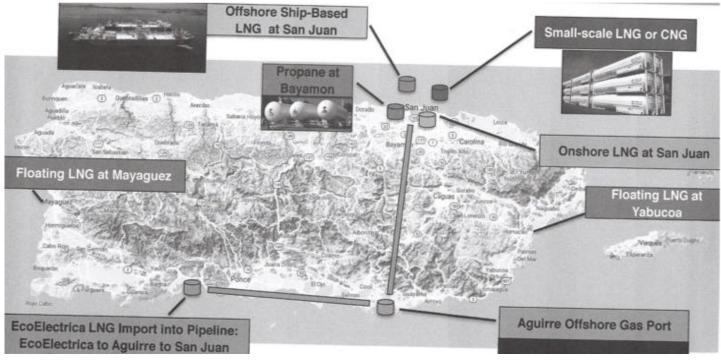
• LNG ports







New Methane Gas Infrastructure, T&D FEMA funding?



Source: Siemens

