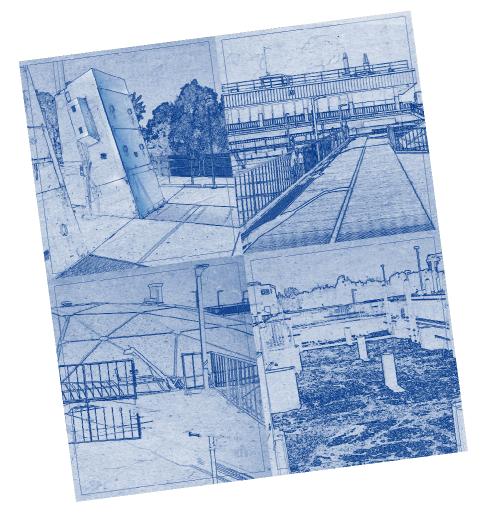




Wastewater Treatment Plant Master Plan

Linear Generator Board Presentation

October 7, 2020





Background



District has been working with Récolte Energy



Aim to reduce electrical bills



Looked at several options over the last few years

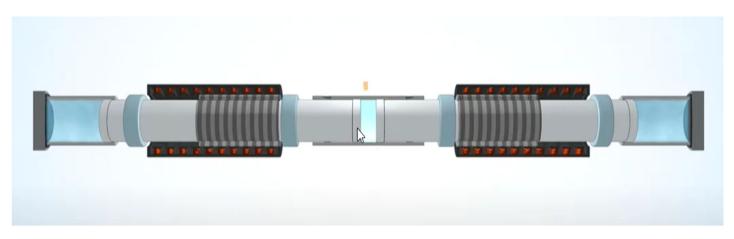


Linear Generator Opportunity



Linear Magnetic Generator (Mainspring)

- Internal Combustion Engine
 - Low temperature
- Claims higher efficiency with less moving parts
- NextEra proposes to install, operate, finance, and manage the linear generator
 - Qualifies for Self Generation Incentive Funding (SGIP). NextEra intends to leverage this funding
- The District would purchase the electricity generated under a power purchase agreement (PPA) with NextEra



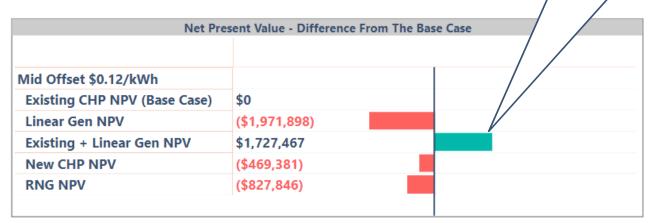




Benefits to the District

- Better utilization of the existing biogas resource
- Increased capacity for additional waste stream co-digestion
- Reduced electricity bills
- Increased onsite-generation
- Reduced carbon footprint
- Low risk through public private partnership (with NextEra)

Initial evaluations show the linear generator and CHP as the only revenue positive alternative









Risks

- New technology in the water/wastewater industry
 - This project will be one of the first used in a biogas application
- NextEra's PPA must be acceptable to the District

However

- The District is not obligated to move forward if the terms of the PPA are not favorable
- Operational risk will be on NextEra
 - The private partner is obligated to meet a minimum performance level
- The District will keep the existing CHP engine in operation





Next Steps

- The District executes NextEra's Letter of Intent
- NextEra submits an Interconnection Application to PG&E
- NextEra applies for a Self-Generation Incentive Program rebate
- NextEra updates the starting PPA price for electricity
- The District reviews and approves the PPA
- Mainspring installs the linear generator in second or third quarter of 2021
- The District's first cash outlay will be after the linear generator starts producing electricity

It is important to execute the Letter of Intent while rebate funding is still available







Recommendation

Authorize the General Manager to execute a Letter of Intent with NextEra Energy, Inc. to enter into a Power Purchase Agreement (PPA) for a linear generator project.





