

## Hyperion Treatment Plant Digester Gas Utilization Project (DGUP)

### California Environmental Quality Act (CEQA) Environmental Impact Report (EIR)

Energy and Environment Committee  
City of Los Angeles  
October 2, 2013

## Hyperion Treatment Plant

- Owned and operated by BOS
- Produce digester gas (digas)
  - Today: 7.2MMscf/day
  - Future: 9.6MMscf/day
- Current status:
  - Digas goes to Scattergood
  - Electricity/steam returned



- Digas is a Renewable Fuel
  - If not sent to Scattergood,
  - Digas must be used in boilers and *flared* on-site

Date: 10/2/13  
 Submitted in SE Committee  
 Council File No: 13-1210  
 Item No.: 1  
 Deputy: Adam R. Lid

## CEQA Purpose and Need (Project Objectives)

1. Minimize flaring
2. Provide all electricity and steam needs
3. Produce renewable energy
4. Maintain output of Class A biosolids & permit compliance
5. Enable Hyperion to operate “off the grid” in emergencies
6. Complies with NPDES permit requirement for 2<sup>nd</sup> feed

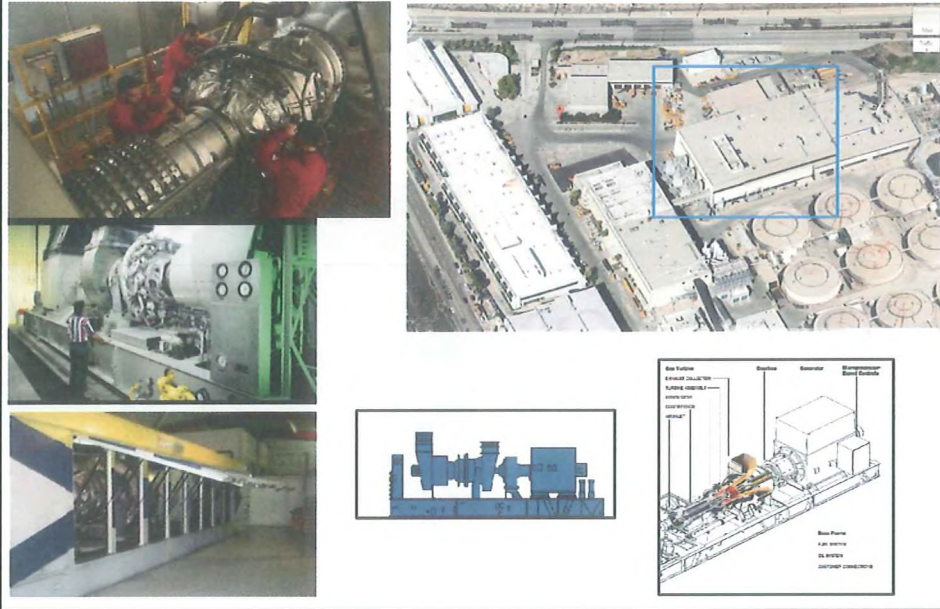
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## Proposed Project

- Combined Heat and Power using renewable non-fossil biogas fuel
- Three gas turbine generator systems for electricity
  - 2 turbines for base load
    - 3<sup>rd</sup> turbine for peak & future digas
  - 100% digas
    - natural gas only as needed
  - Current Demand, 22 MW (7.2 MMscfd)
    - Future Needs, 34 megawatts (9.6 MMscfd)
- Equipment to produce steam

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## Building(existing) and proposed Equipment



## Environmental Focus Areas

- **No Impact**
  - Agriculture and Forestry Resources
  - Biological Resources
  - Cultural Resources
  - Land Use Planning
  - Mineral Resources
  - Recreation
- **Less Than Significant**
  - Geology/Soils
  - Hydrology/Water Quality
  - Population/Housing
  - Public Services
  - Transportation/Traffic
  - Utilities/Service Systems
- **Potentially Significant – Analyzed in Draft EIR**
  - Aesthetics
  - Air Quality
  - Greenhouse Gases (GHGs)
  - Hazards and Hazardous Materials
  - Noise

## CEQA Analysis

- Most conservative approach
  - Maximum Build out project
  - Assessed as a new source

Energy Recovery Building

Flare Location

Scattergood Turbines #1 & 2



## Results

- Health Risk Assessment (HRA) = below AQMD thresholds
- Air and GHG emissions = above AQMD thresholds
  - Required further evaluation
  - Feasible measures incorporated
  - Employs Best Available Control Technology
- Note:
  - Emissions are common for projects of this type and activity
  - Project Permit applications including emission/technology specifications, in review

## Project Benefits

- Existing Conditions:
  - Scattergood arrangement ends Dec 31, 2016
  - Outdated equipment
  - Supplemental natural gas
- No Project:
  - No electricity
  - No Renewable Energy Credits
  - Flare most digas, Utilize digas in boilers
  - Air emission fees
- Proposed CHP Cogen:
  - Utilize 100% of digas, renewable non-fossil fuel
  - Satisfy HTP electricity and steam needs
  - Comply with NPDES permit for 2<sup>nd</sup> feed
  - Minimize flaring

## Staff Recommendations

- Forward the Report to the City Council with the recommendation that the Council:
  - Certify the Final EIR;
  - Adopt the mitigation and monitoring measure as conditions of project approval;
  - Adopt the Mitigation Monitoring and Reporting Program;
  - Adopt the Findings and Statement of Overriding Considerations; and
  - Approve the project, identified as the preferred alternative in the Final EIR.

