Biogas Management: City’s Leadership in Controlling the [Bio]Methane

Methane Symposium
March 12th, 2015
Wastewater Program

- Conveys and treats 550 MGD
- Operates four treatment plants
- Serves 29 contract agencies
- Maintains 6,700 miles of sewers
- Operates 47 wastewater pumping plants
- Administers pretreatment program for over 12,000 industrial users
Hyperion Treatment Plant

- Owned and operated by LA SAN
- Treats over 300 MGD
- **Produces digester gas (digas)**
  - Today: 7.2MMscf/day
  - Future: 9.6MMscf/day
- Current: Scattergood; Energy Exchange
  - Future: DGUP 42 MW

- Digas is a renewable fuel and is beneficially used for generating electricity and steam for its operations
CITY’S BIOSOLIDS PROCESS

STABILIZATION

DEWATERING

TRUCK TRANSPORT

BIOSOLIDS SPREADING & INCORPORATION

FIELD OF WHEAT

HARVESTING CROP
Lopez Landfill: 2.9M SCFD (standard cubic feet per day)
Toyon Landfill: 1.0M SCFD @ 50% CH4
Figure 7. Districts Energy Production and Sales, January 2014

Los Angeles County Sanitation Districts Energy Production and Sales

- Landfill Gas-to-Energy 61 MW
- Digester Gas-to-Energy 20 MW
- Refuse-to-Energy 40 MW
- Total usage: 92 MW

Power Sales

CSD Facilities
(Total usage: 36 MW)

Solid Waste Facilities

Wastewater Management

Refuse-to-Energy

Water Reclamation
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