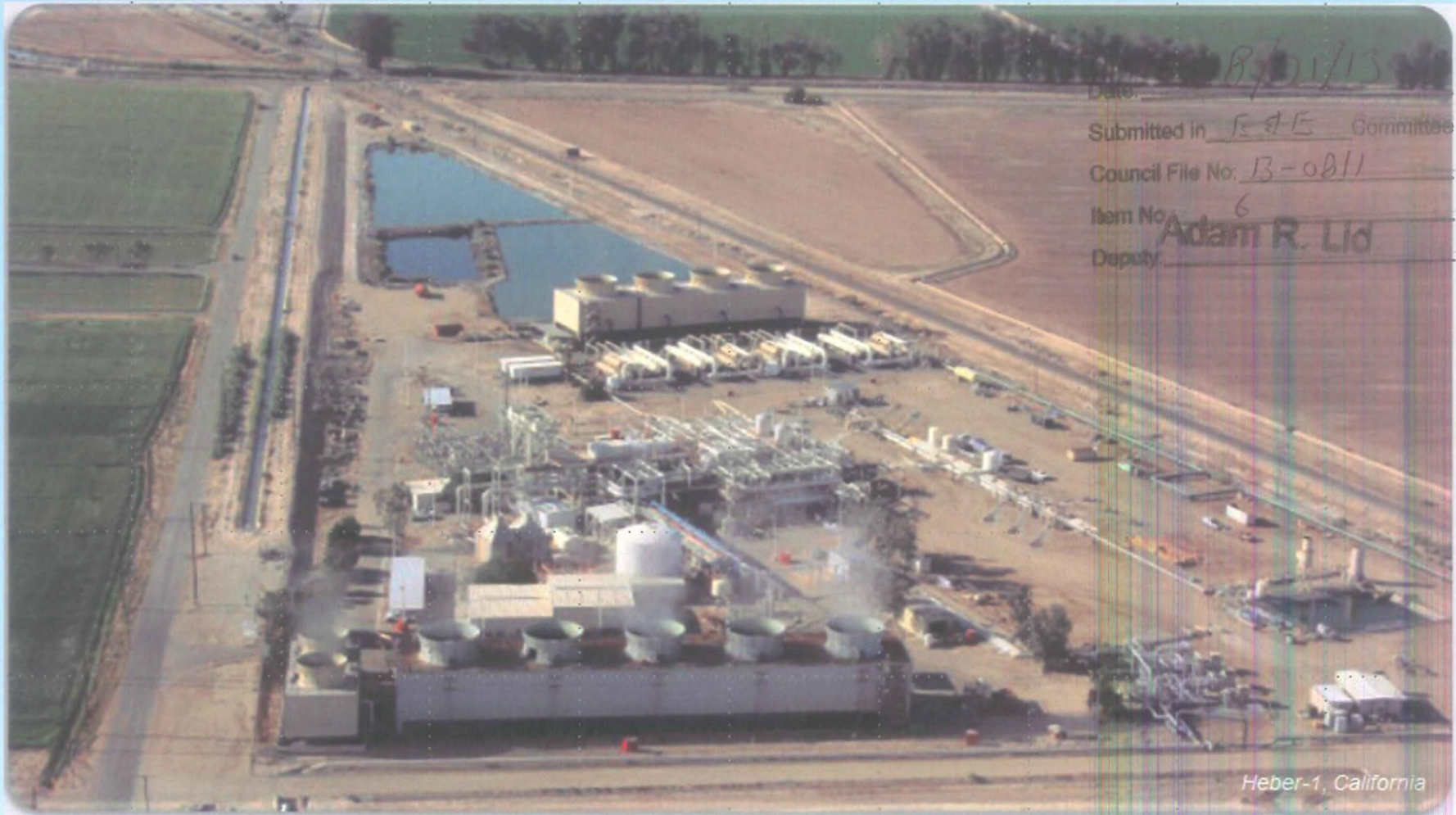


# Heber-1 Geothermal Energy Project

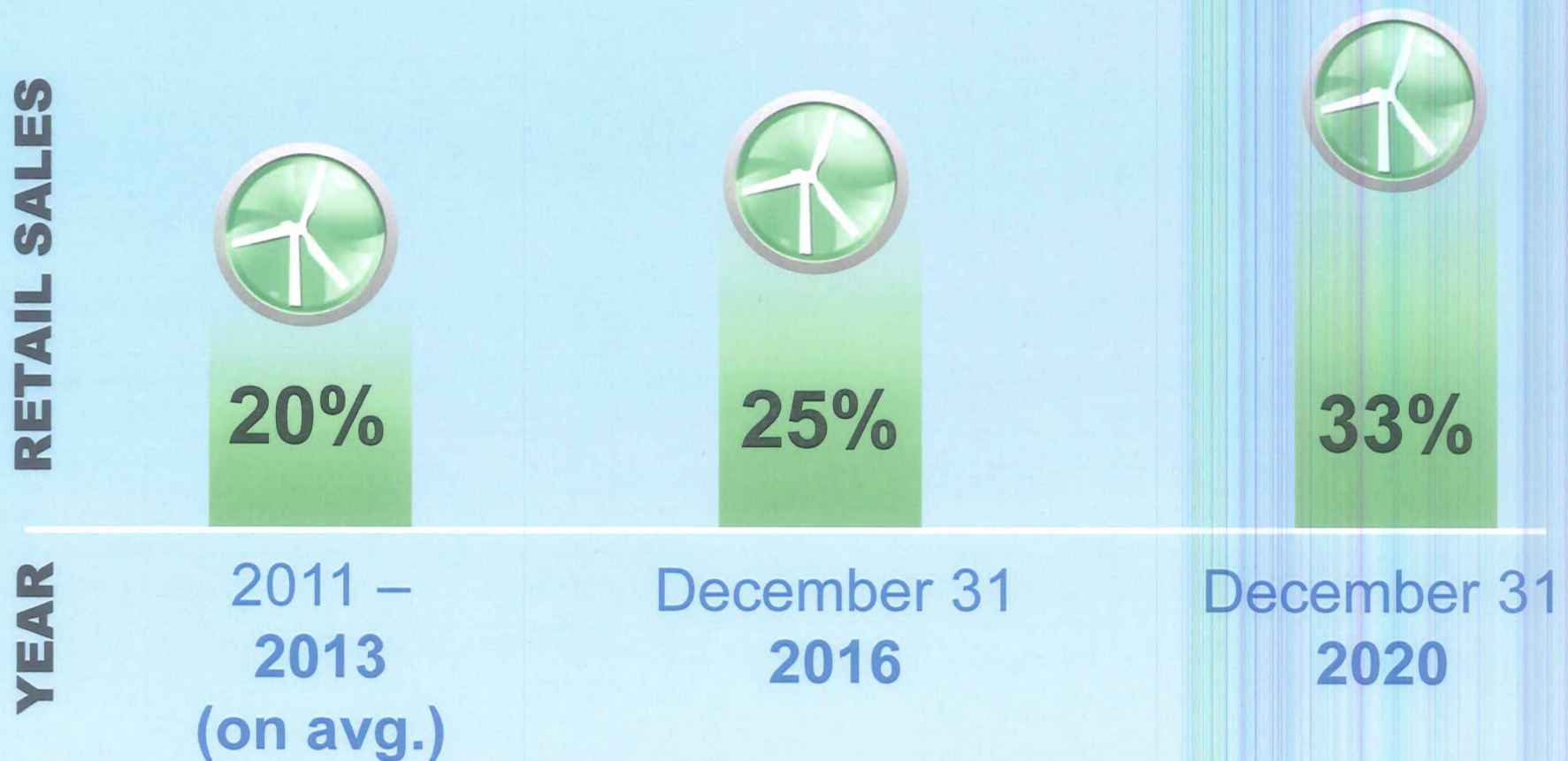


City of Los Angeles  
Department of Water and Power

Los Angeles City Council  
E&E Committee Meeting  
August 21, 2013

# Heber-1 Geothermal Energy Project

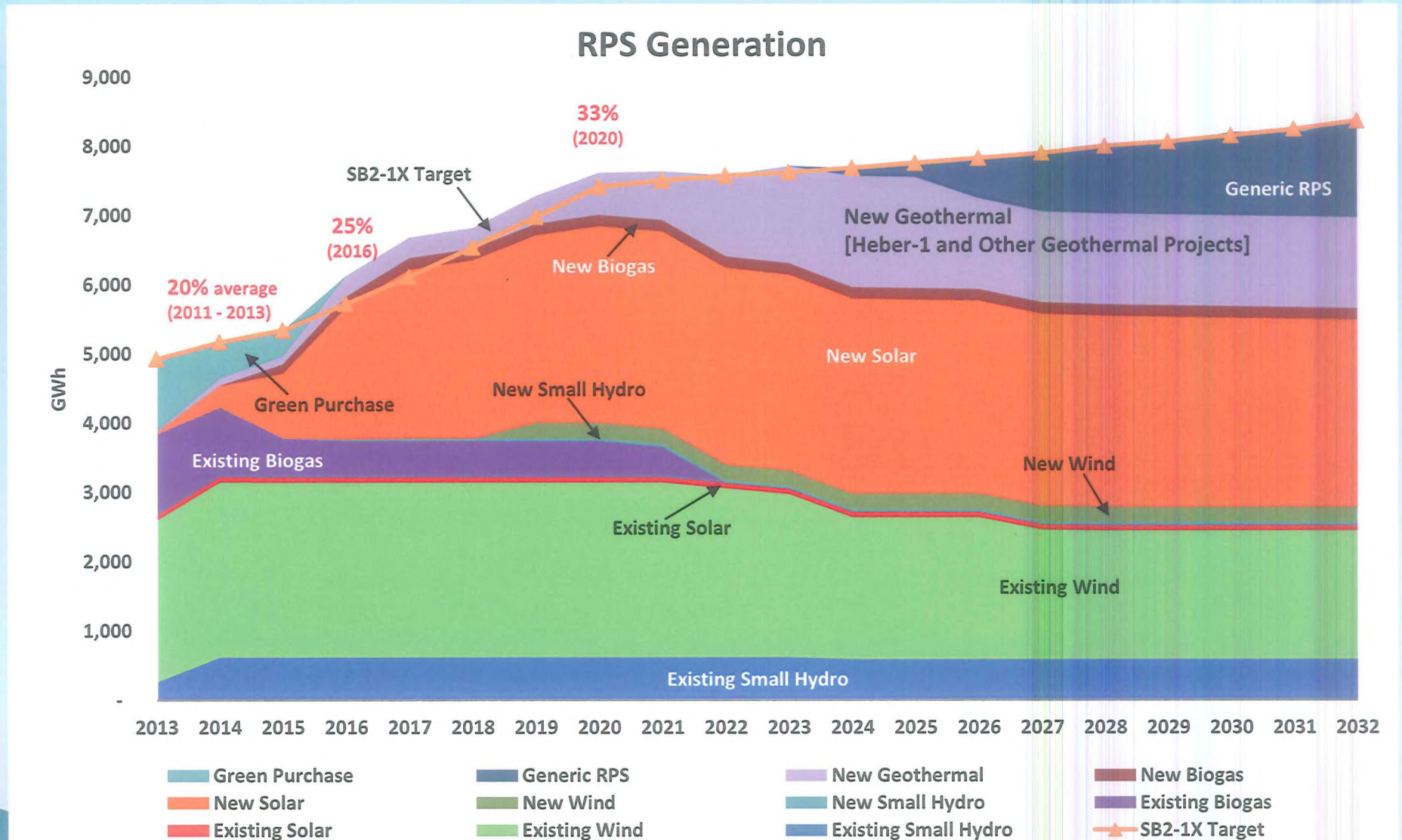
## California SB2 (1X) RPS Compliance Targets



In April 2011, Governor Brown signed into law the California Renewable Energy Resources Act (“SB 2 (1X)”)

# Heber-1 Geothermal Energy Project

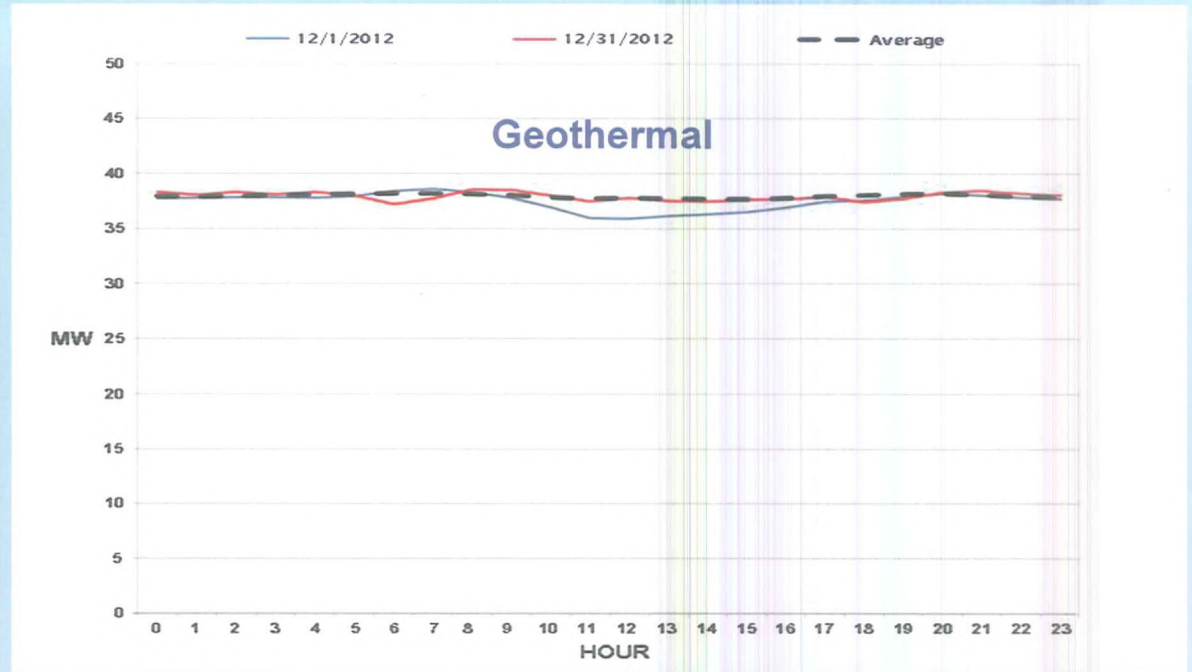
## California Mandated RPS Compliance and LADWP Projected Renewable Generation by Technology



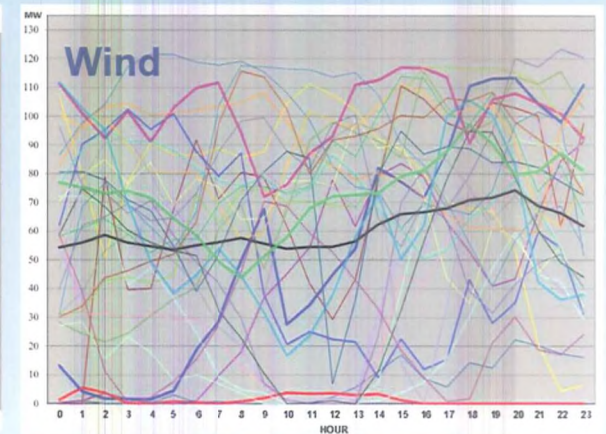
# Heber-1 Geothermal Energy Project

## Advantages of Geothermal Energy

- Baseload renewable, 24/7 except maintenance
- Closed loop system with zero emissions
- High-capacity factor (90-95 percent)
- Low noise, low visual profile, and no future fuel volatility
- Reliable energy
- Incurs insignificant integration costs



Typical Generation Profile



# Heber-1 Geothermal Energy Project

## Project Summary

- **Developer/Seller:** Ormat Nevada, Inc., **Buyer:** SCPPA
- **Project Location:** Imperial County, California
- **Generation Capacity:** 46 MW, Annual energy output 383 GWh
- **Energy Cost:** \$80 per MWh with 1.5 percent annual escalation
- **Term:** 10-year Power Purchase Agreement
- **Delivery Commencement Date:** February 2, 2016
- **Point of Delivery :** Mead 230-kV [LADWP Balancing Authority] utilizing Imperial Irrigation District (IID) and Western Area Power Administration (WAPA) Transmission Services and System; alternative path utilizing California Independent System Operator (CAISO) Transmission System if IID's or WAPA's Transmission Services are not available
- **SCPPA Participants' Shares:**

Participant	Generation Capacity	
	[2016 - 2018 ]	[2019 - 2025 ]
LADWP	30.67 MW (255 GWh)	35.88 MW (299 GWh)
IID	15.33 MW (128 GWh)	10.12 MW (84 GWh)

- **RPS Compliance:** Energy purchased represents 1.3 percent of the LADWP's RPS goals

