Ormat’s Geothermal Projects in Imperial County
Imperial Valley Renewable Energy Summit

March 11, 2016
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Introduction

Market leader with proven track record in the geothermal sector

Our mission is to become a leading global renewable energy provider

Own & Operate nearly 700 MW

50 Years of experience

595 $million Revenue in 2015

1,060 Employees
Business Segment Overview

The only vertically integrated player with a balanced business model

- Owns & operates 697 MW
- Sells firm & flexible electricity
- Fully contracted

Revenue¹

Electricity

- Technology leadership
- Sells geothermal and REG² power plants as well as other products to 3rd parties
- Provides EPC³ services

¹Five years average (2011-2015)
²REG - recovered energy generation
³EPC - engineering, procurement and construction
Why Geothermal

Renewable
- Supporting legislation
- Growing demand

Competitive
- Firm & flexible
- Cost effective

Global growth potential
- Estimated 10X the installed capacity

High entry barriers
- Niche market
- Capital intensive
- Expertise
35 Years of Pioneering Power Plants

From a 2 kW power unit at a hot spring of 120°F (48.9°C) in Alaska (1979)…

…. to a 100 MW power plant at a high enthalpy resource of 382°F (194.4°C) in New Zealand
Solutions For All Geothermal Resources – New Collaboration with Toshiba

Geothermal Resource Temperature (ºC)

- Liquid dominated
- Steam dominated

Binary (ORC)

Geothermal Combined Cycle

TOSHIBA

ORMAT

100
150
200
250
300
350

Liquid dominated
Steam dominated
Geothermal Green Field Development Process

Exploration
- Site Identification
- Lease agreement
- Permitting
- Exploration
- Initial field development & well testing

Project Development

Engineering & Procurement
- PPA
- Plant design
- Completion field development & equipment manufacturing
- Plant permits
- Gathering system and plant construction

Manufacturing

Field Construction
- Testing and start up
- Acceptance test
- Commercial operation

Operation

Multi-Discipline Expertise

3 years

2 years

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Imperial Valley: San Andreas Step Over Basin Along Fault System
Imperial Valley and Mexican Geothermal
Geothermal Flash Power Plant
Water-Cooled Binary Geothermal Power Plant
Heber Facility Summary

The 92 MW Heber Complex has been sustainably operating since 1985. It includes:

- Heber 1 and Gould 1
- Heber 2
- Heber South and Gould 2
The 42 MW Ormesa Complex has been sustainably operating since 1987. It includes:

- Ormesa I
- Ormesa II
- GEM 3
North Brawley Geothermal Facility Description

The North Brawley consists of 5 Ormat Energy Converters and generates 18 MW since March 2011
History of Truckhaven

- Imperial County EIR Phillips Petroleum’s “Truckhaven Prospect Geothermal Exploration Wells” Westec Services, Inc. 1981
  - Phillips Truckhaven 1 1982: 8093 feet
  - IAE 2008: 7139 feet
Seismic Survey Area
Recording System: Vibroseis and Geophones
Cartoons Illustrating Possible Reservoir Complexity
Salton Sea Known Geothermal Resource Area
Salton Sea KGRA Statistics

- Estimated potential additional 2000 megawatts
  (Enough power for 1.5 million homes (750 mw/household))
- Current generation from 11 power plants
  (~300,000 homes)
  - Cal Energy - 10 power plants: 327 mw
  - Energy Source - 1 power plant: 50 mw
Ormat’s Core Competencies in the Imperial Valley

- Plant operations and maintenance
- Plant upgrades and repowering
- Wellfield development and sustainable management
- Reservoir management
- Centralized regional operation
  - Shared resources
  - Efficiencies
Economic Impact in Imperial County

- 139 full time employees
- Ormat’s >200 MW > $1 Billion investment in Imperial County
  - New projects will continue to add to this base
- Property Taxes paid to Imperial Valley = $2.4 Million in 2015-16
  - Sales taxes increase the Valley’s income due to local purchases including hotel tax
Environmental Benefits of Binary

• 100% injection of all geothermal fluids
• No geothermal emissions
• Motive Fluid is a hydrocarbon versus a refrigerant
Questions?

North Brawley under construction