

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

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Green energy you can rely on

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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



50
Years of
experience



595
\$million Revenue
in 2015

Own & Operate
nearly
700 MW

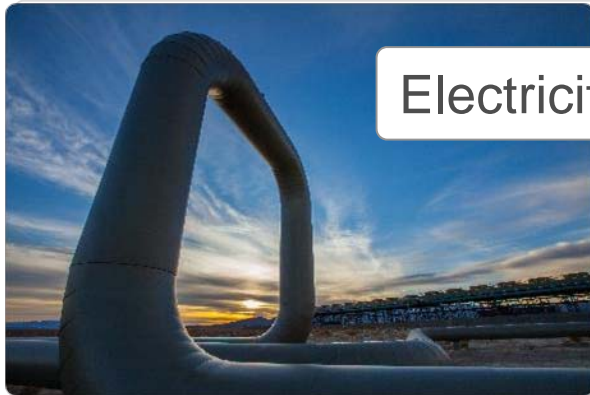


1,060
Employees



Business Segment Overview

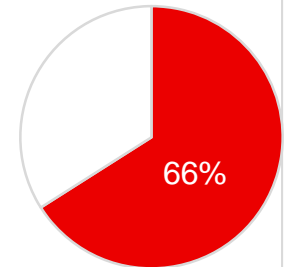
The only vertically integrated player with a balanced business model



Electricity

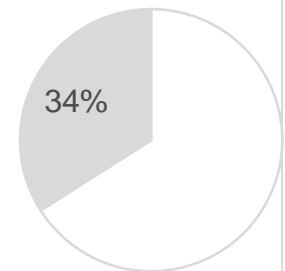
- Owns & operates 697 MW
- Sells firm & flexible electricity
- Fully contracted

Revenue¹



Products

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



Why Geothermal



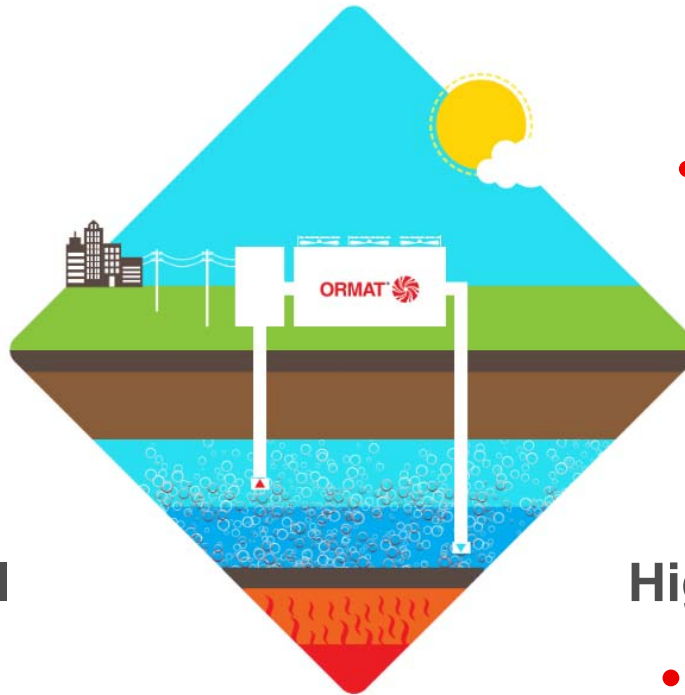
Renewable

- Supporting legislation
- Growing demand



Global growth potential

- Estimated 10X the installed capacity



Competitive

- Firm & flexible
- Cost effective



High entry barriers

- Niche market
- Capital intensive
- Expertise



35 Years of Pioneering Power Plants

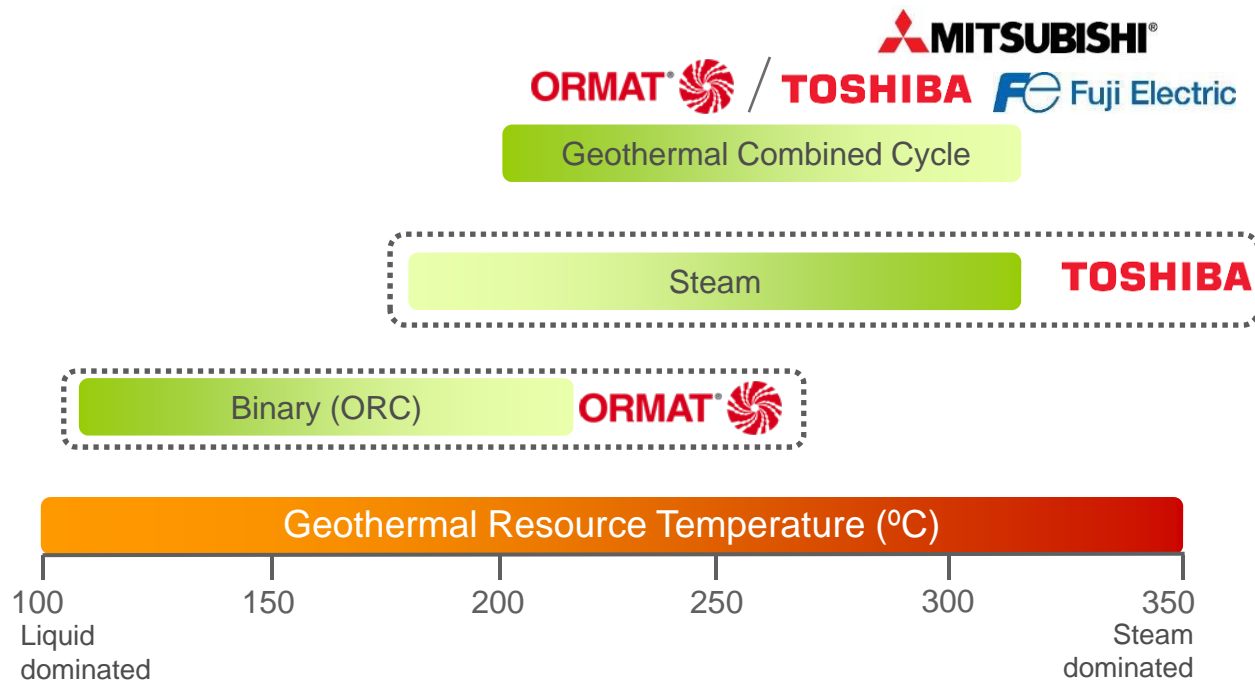
From a 2 kW power unit at a hot spring of 120°F (48.9°C) in Alaska (1979)...



.... 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 Green Field Development Process



Imperial Valley: San Andreas Step Over Basin Along Fault System



Imperial Valley and Mexican Geothermal

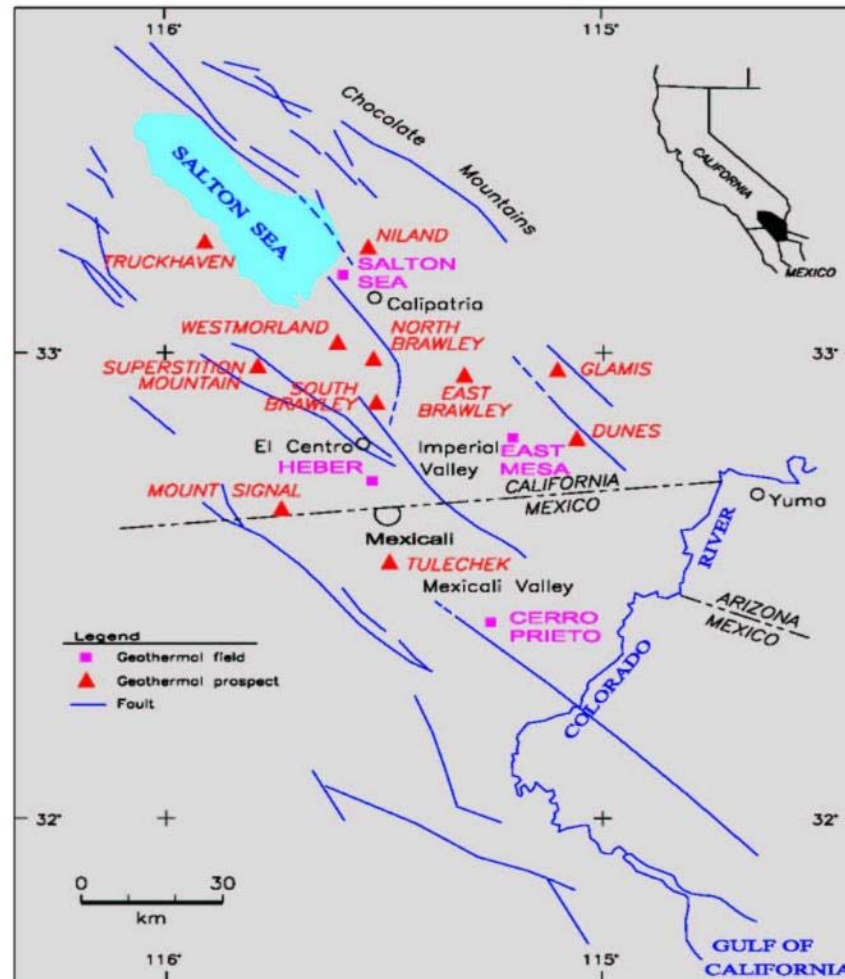
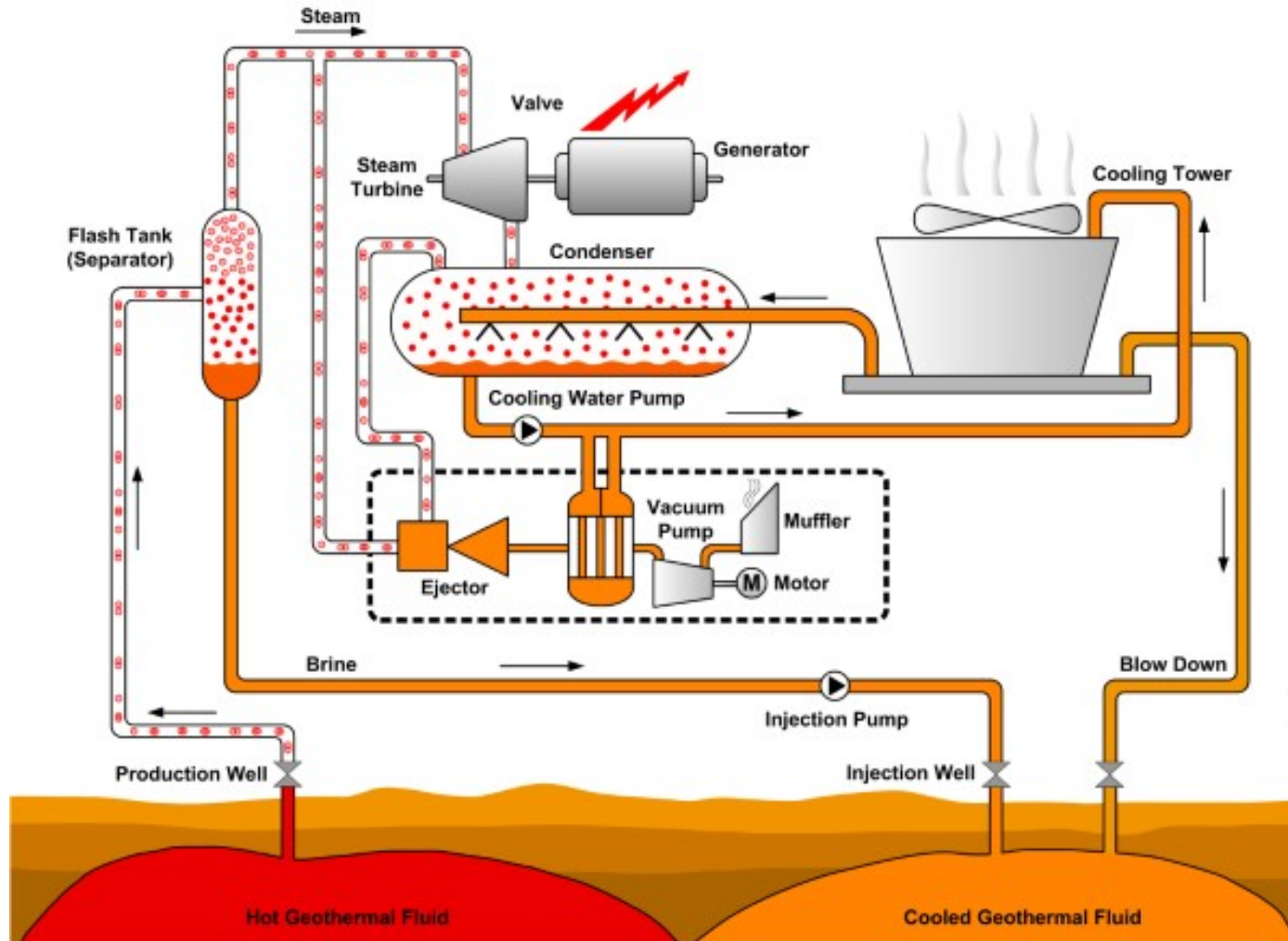
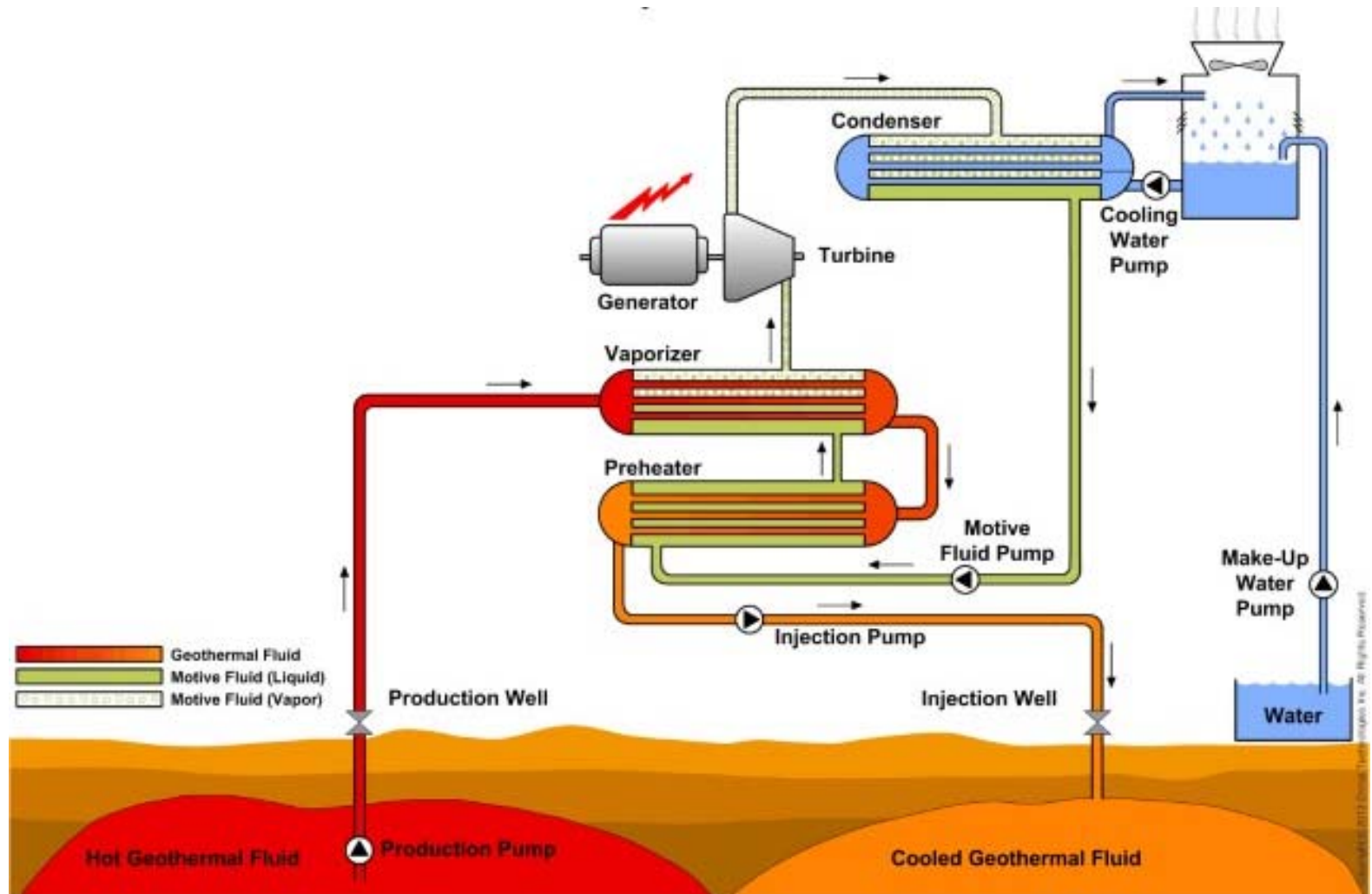


Figure 3.2: Location of geothermal fields in the Salton Trough geologic province
2003, GeothermEx, Inc. EN 103-2003/1000000

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



Ormesa Geothermal Projects Facility Description

The 42 MW Ormesa Complex has been sustainably operating since 1987. It includes:

- Ormesa I
- Ormesa II
- GEM 3



North Brawley Geothermal Facility Description

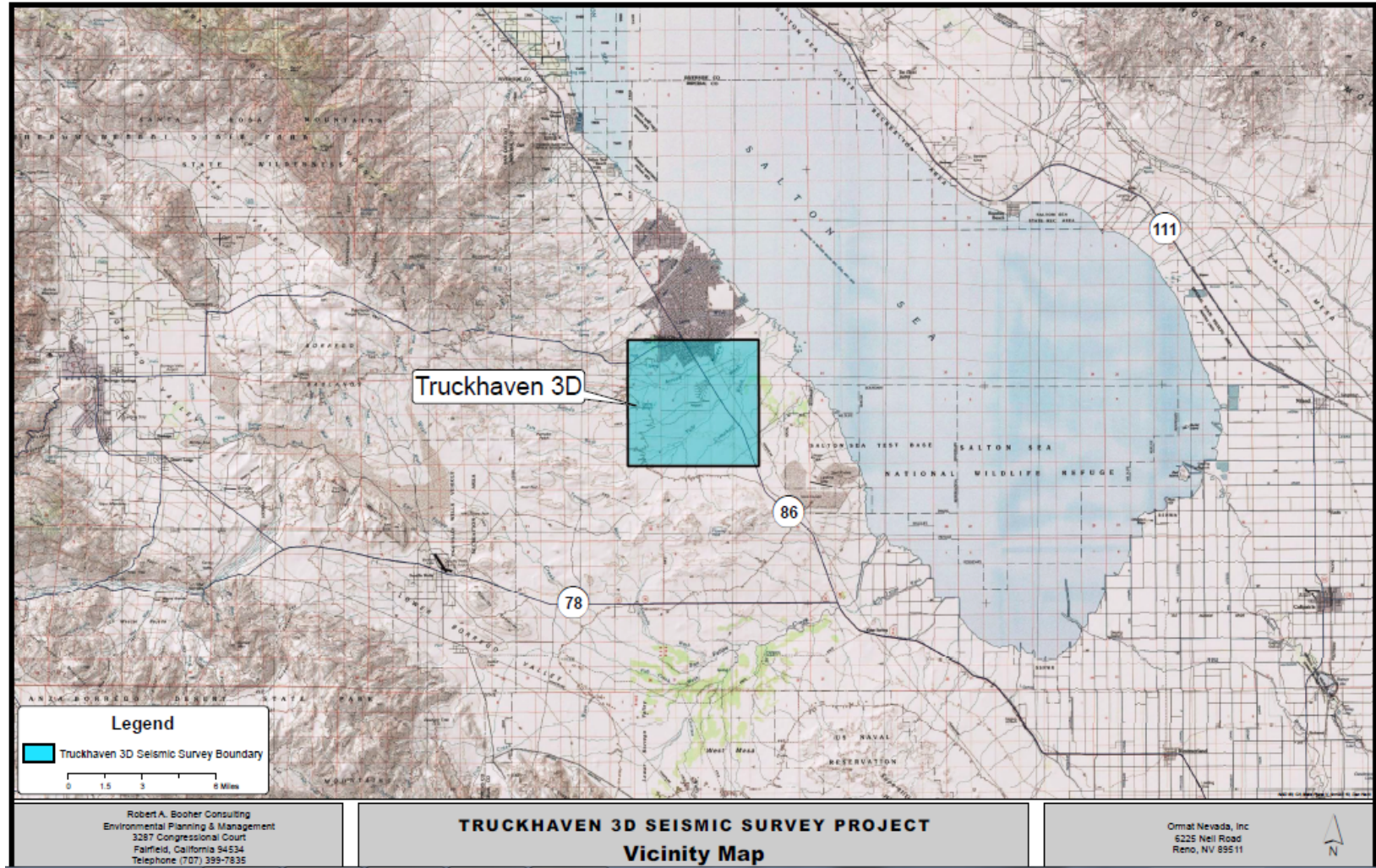
The North Brawley consists of 5 Ormat Energy Converters and generates 18 MW since March 2011



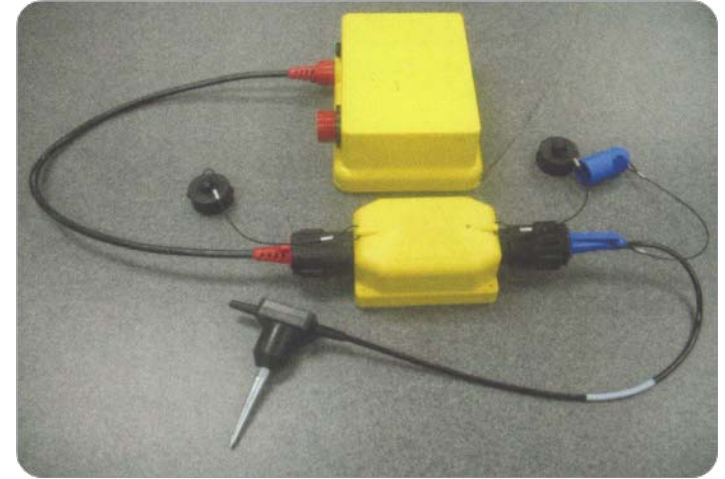
History of Truckhaven

- 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
- Geothermal Overlay Zone for Imperial County's "Final Programmatic Environmental Impact Report Renewable Energy & Transmission Element Update" July 2015

Seismic Survey Area

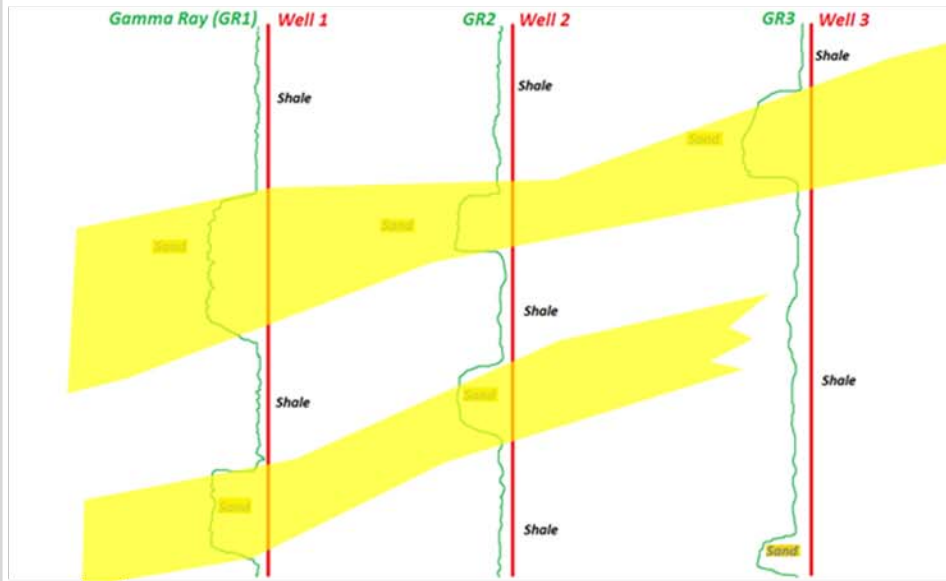


Recording System: Vibroseis and Geophones

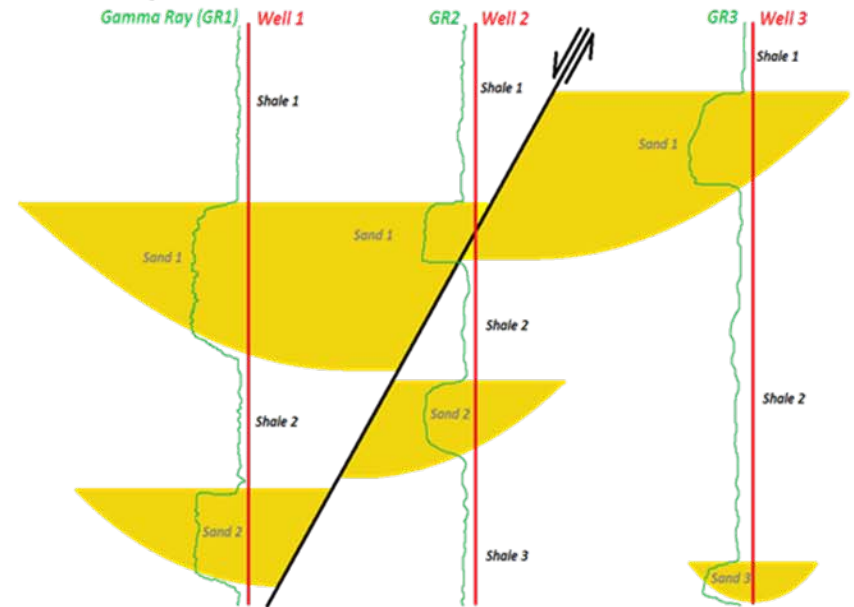


Cartoons Illustrating Possible Reservoir Complexity

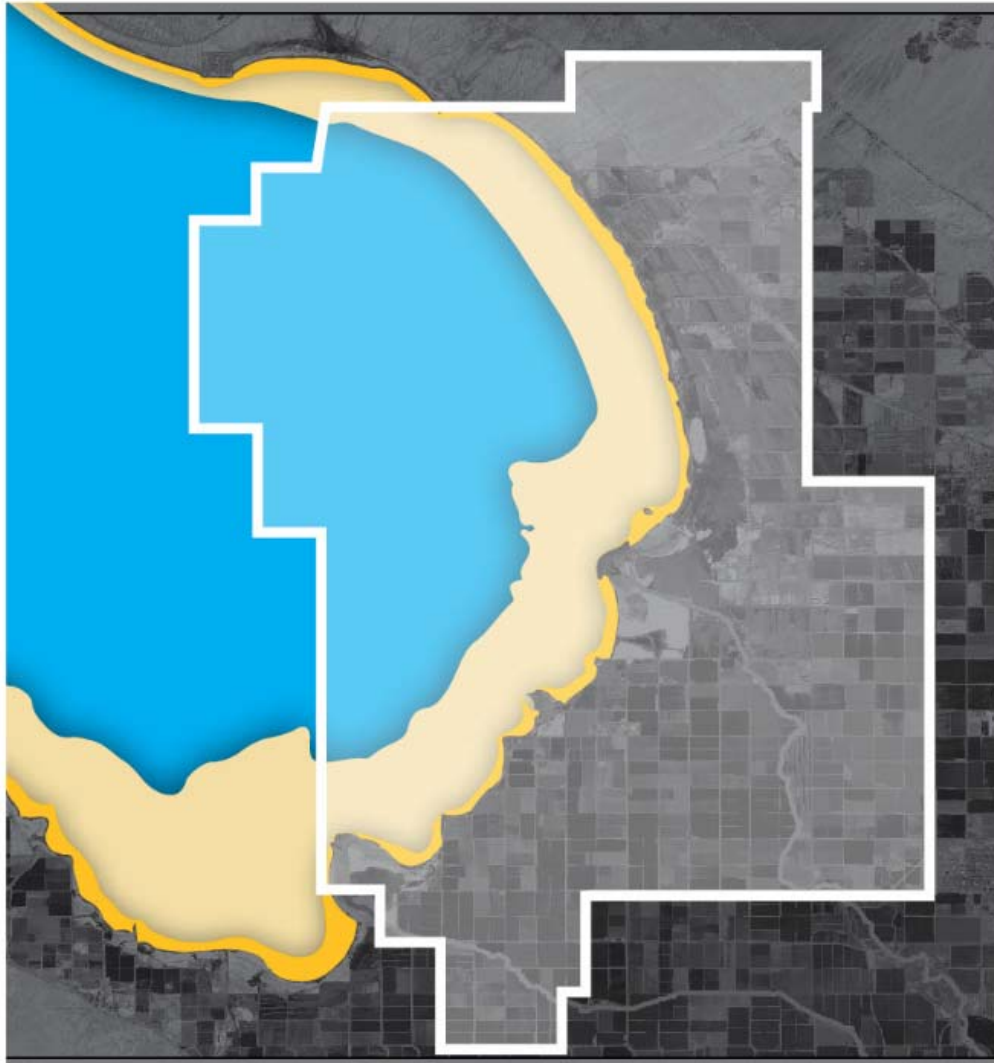
a)



b)



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