

GlassPoint



CIPA

“Greening”

The Oil Patch



This video can be found at:

<http://www.youtube.com/watch?v=5YjmhXa7Lio>

- Solar steam generators for enhanced oil recovery
 - Solar steam costs less than steam produced by gas
 - Reduces EOR natural gas use by up to 80%
 - Solar EOR increases proven reserves
- GlassPoint sells equipment worldwide
 - Fully installed large-scale solar collector fields
 - Designed for operation in oil fields environments
- Roll-out is underway
 - Proof of concept went “on-sun” in China in 2010
 - Pilot plant in operation at Berry Petroleum in California
 - GCC project to be announced soon



GlassPoint Locations



Corporate HQ
Fremont, CA



Engineering
Shenzhen, China

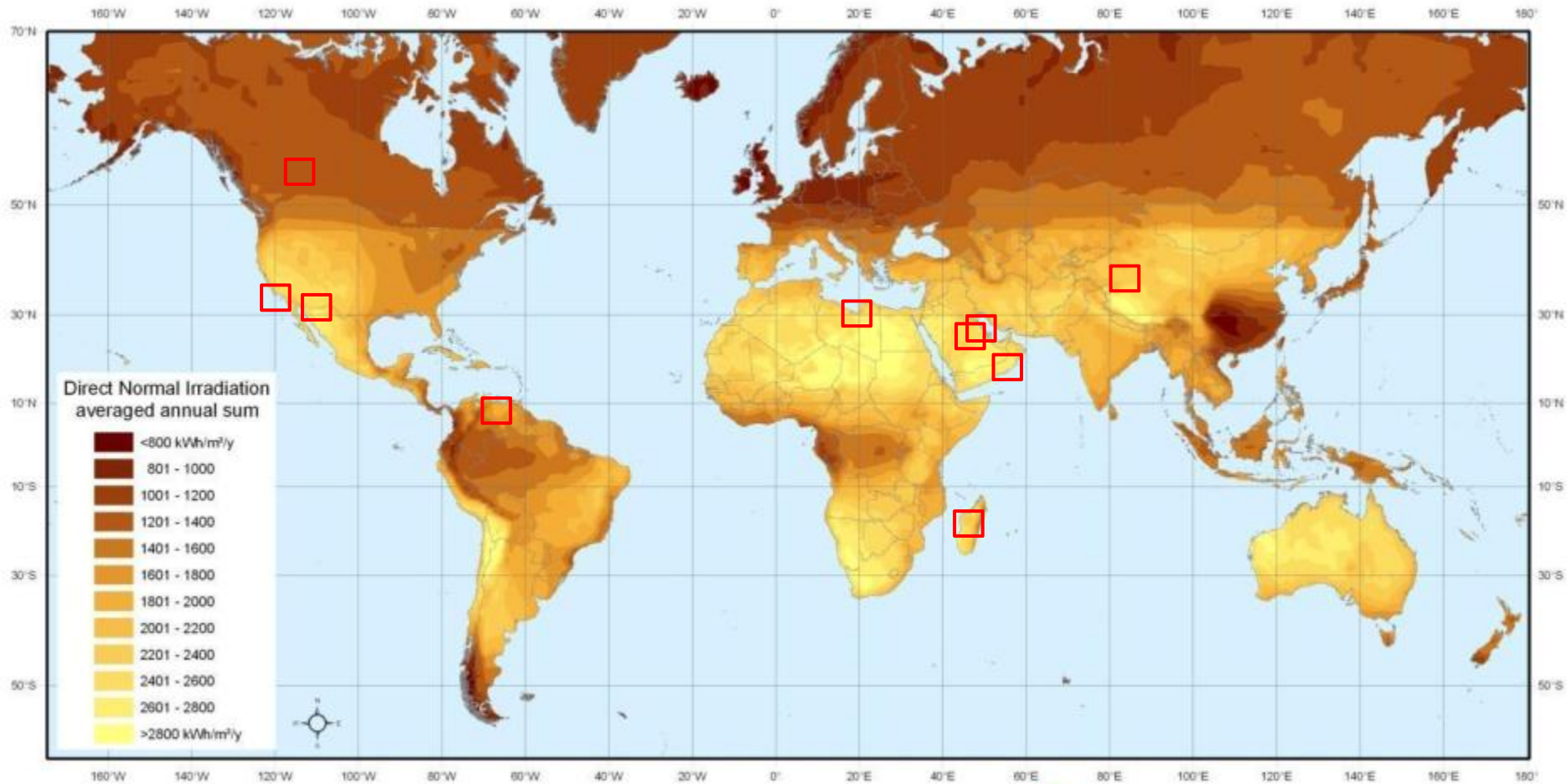



In-Country Projects
Muscat, Oman



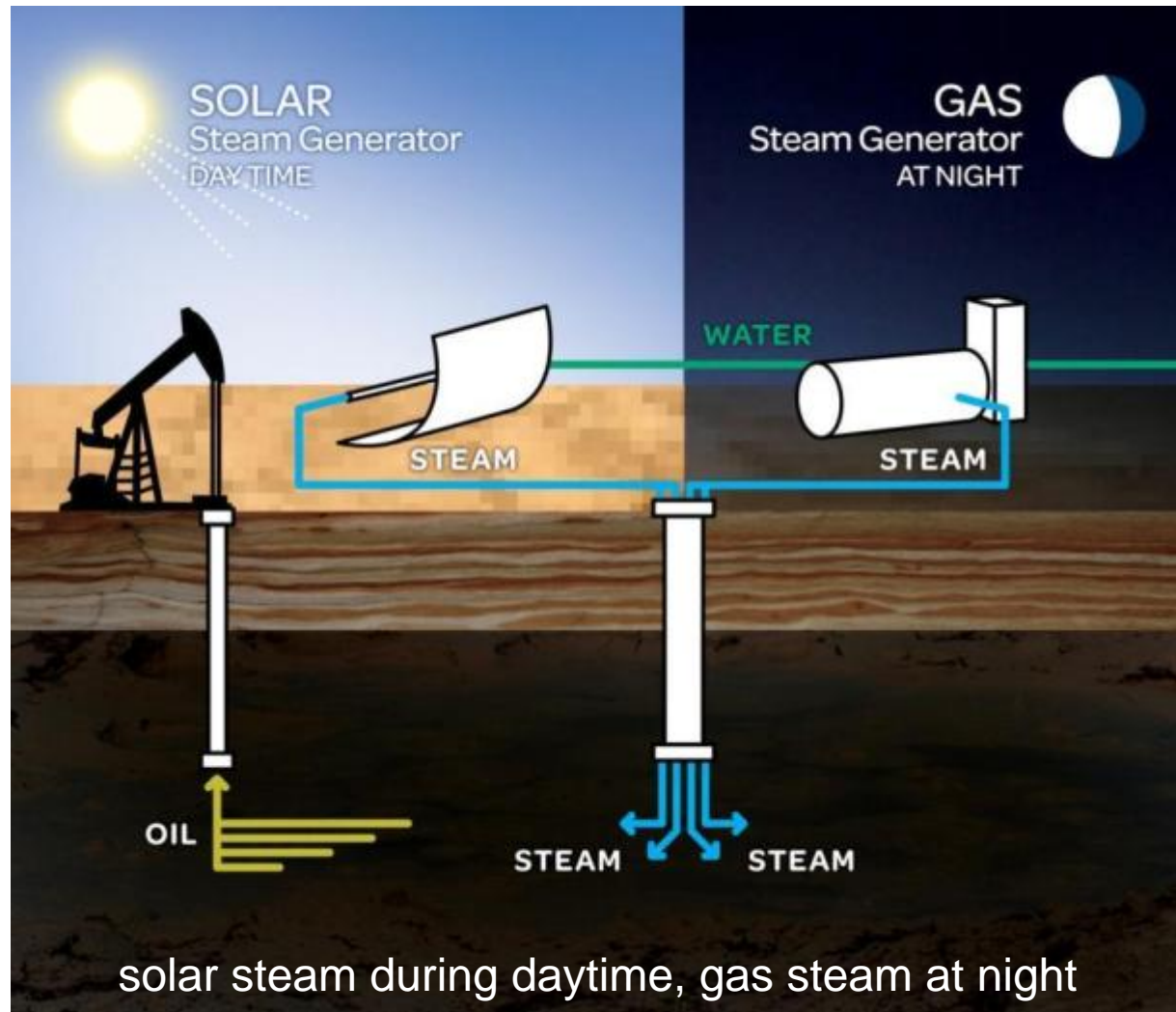
21Z Project
Bakersfield, CA

Heavy Oil & Solar Resource

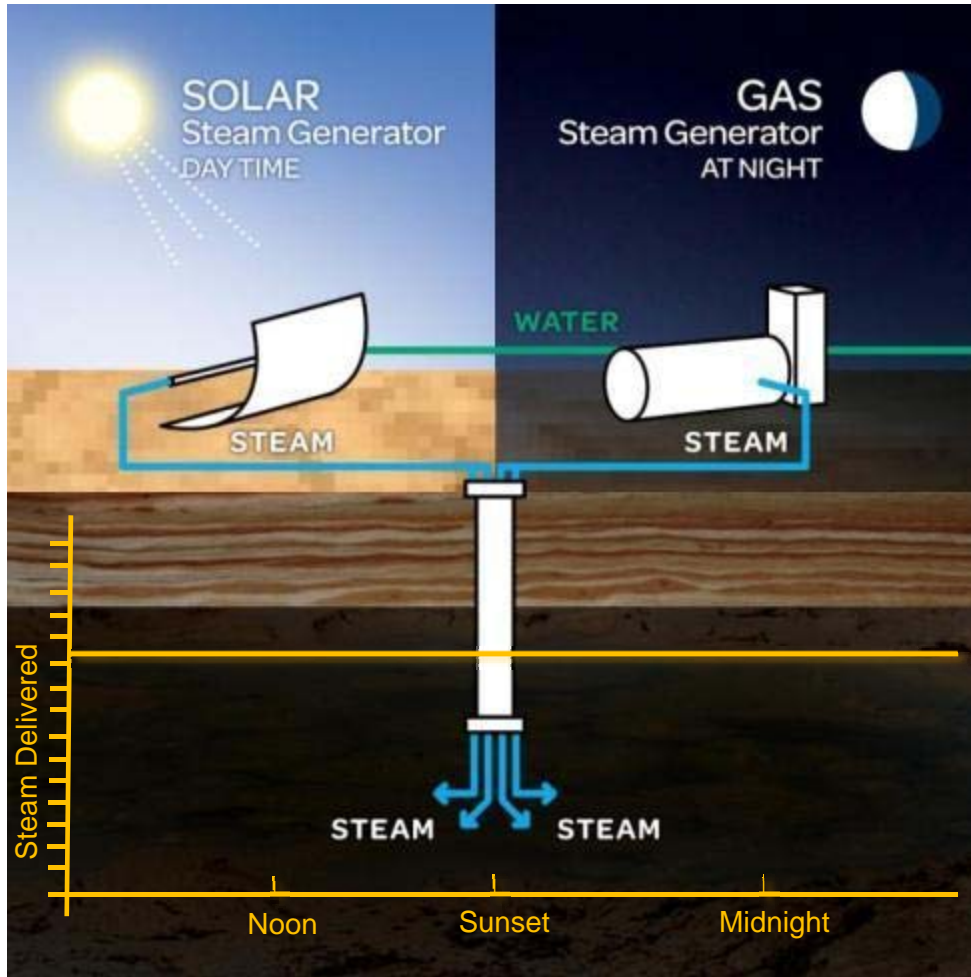


Data based on  SSE 6.0 dataset for a 22-year period (July 1983 - June 2005)
(<http://eosweb.larc.nasa.gov/sse/>)

Solar Hybrid Configuration

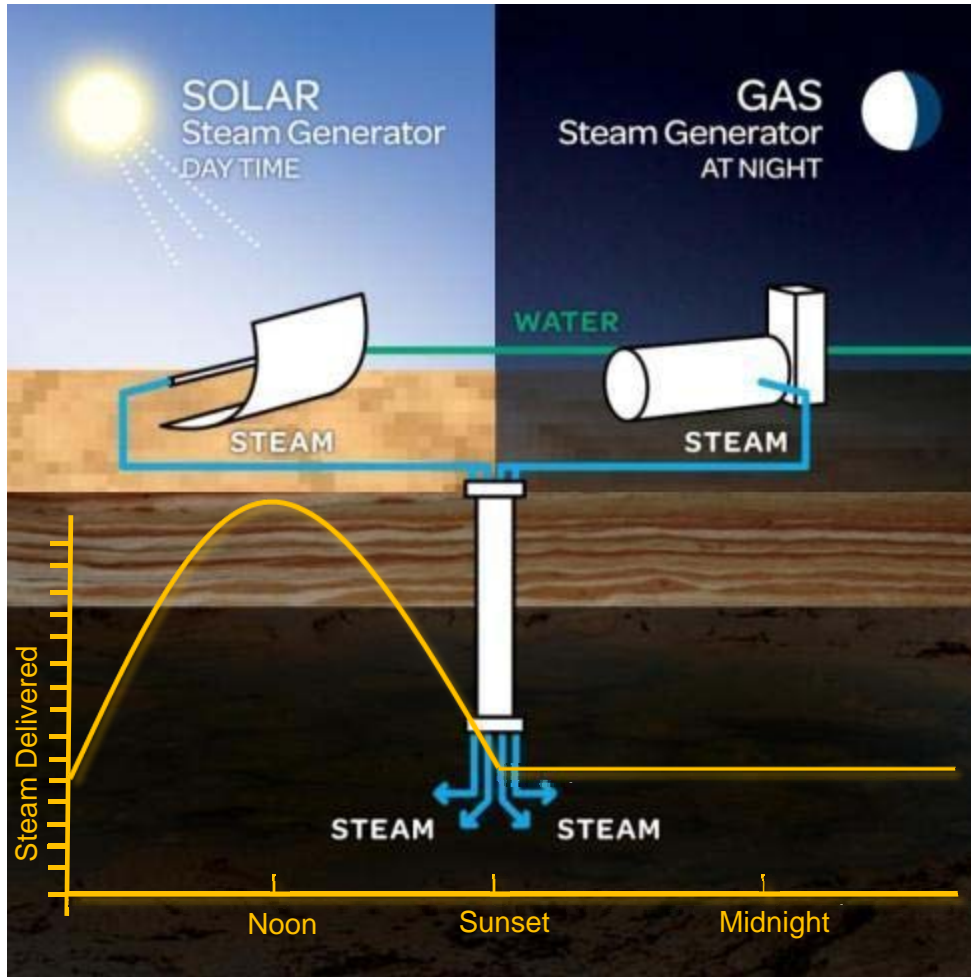


Constant Rate Steaming



CA
20%
Reduction in gas use

Variable Rate Steaming



CA
60%
Reduction in gas use

Lower Cost Steam

$$\frac{\text{NPV Total Cost}}{\text{NPV MMBtus Delivered}} = \text{Sub } \$3.00 \text{ per MMBtu}$$



Effect on Proven Reserves

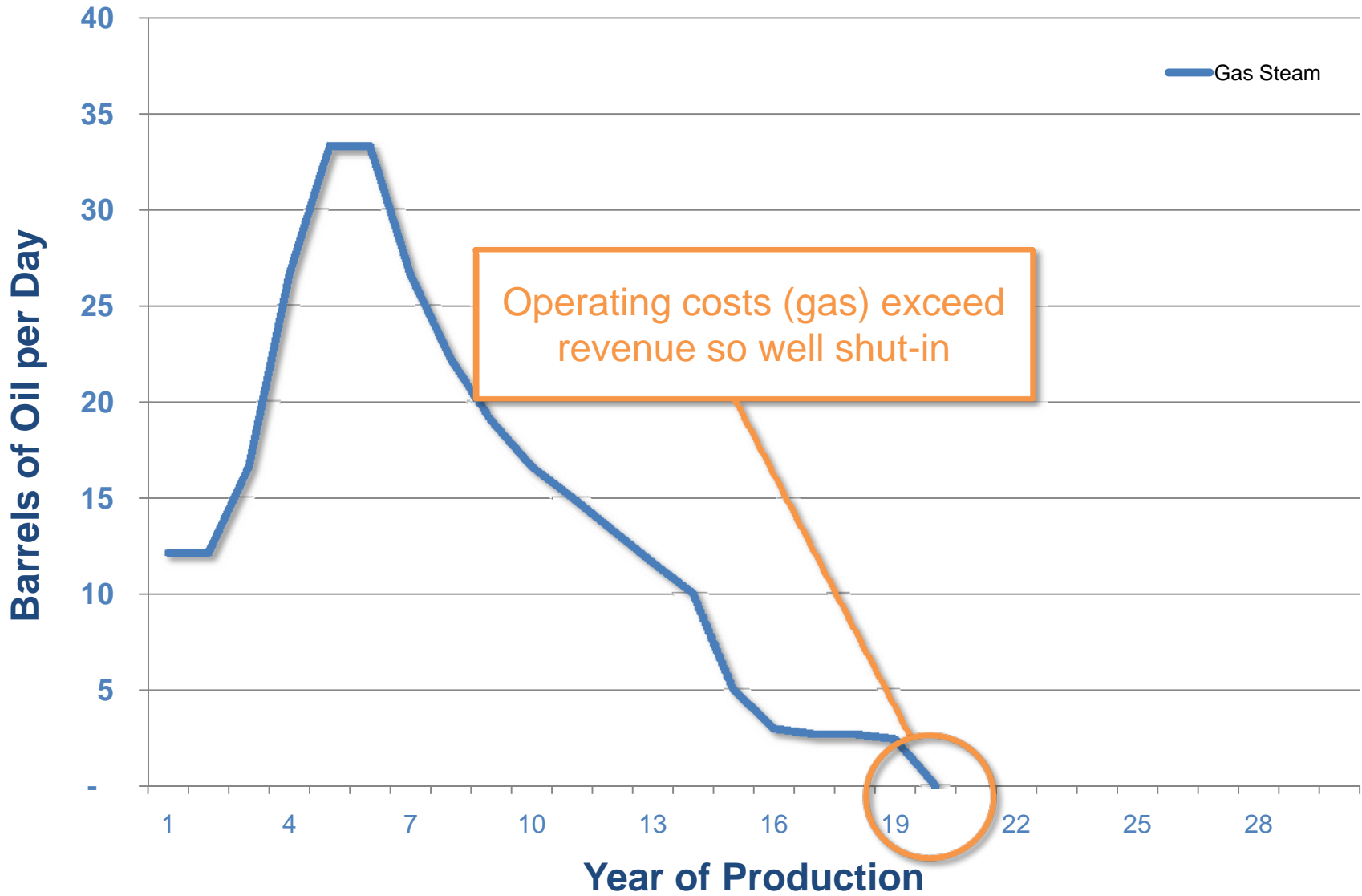
Proven Reserves

Amount of oil that can be economically recovered

Solar steam costs less than gas-fired steam

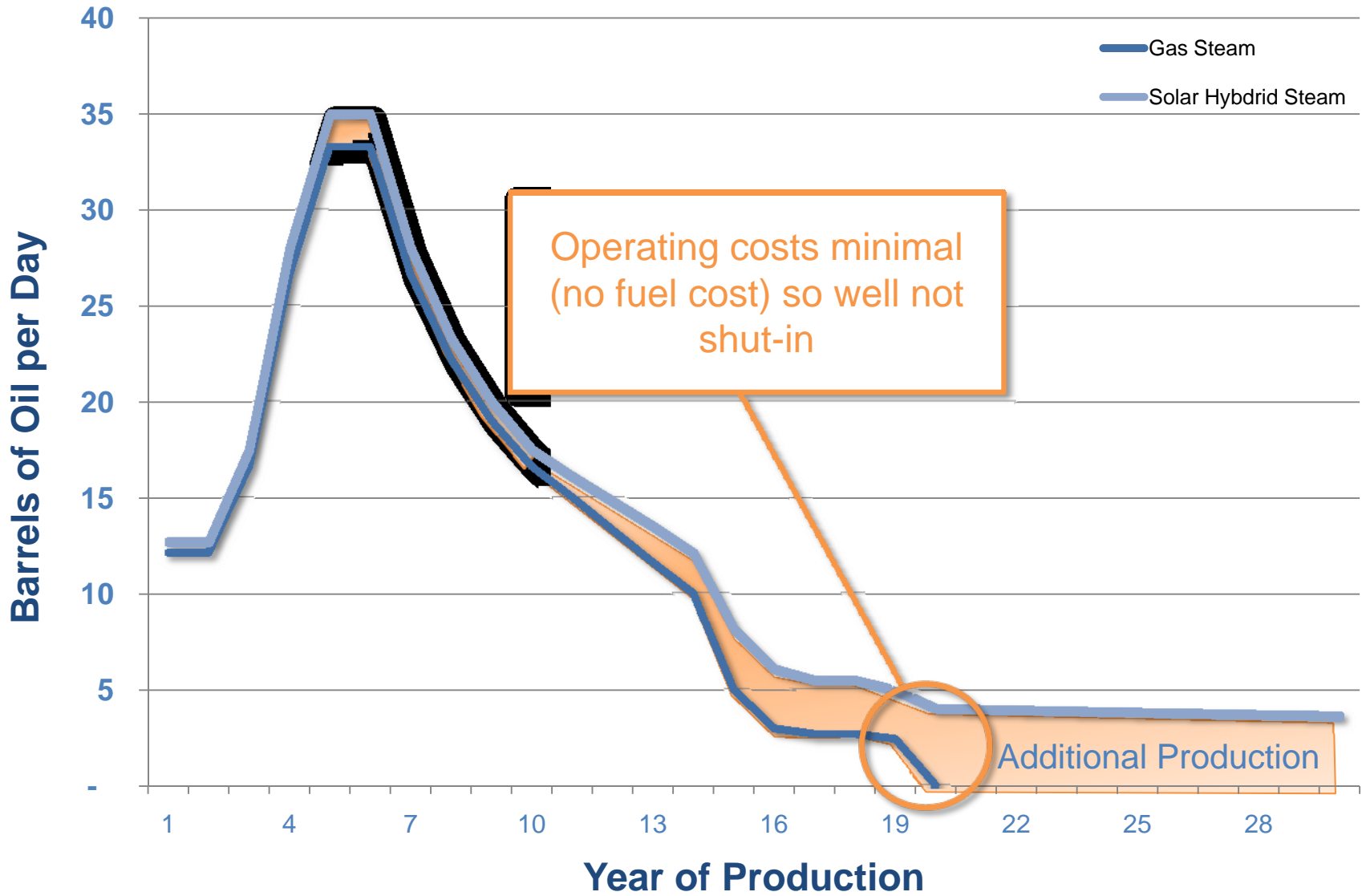
More oil can be economically recovered

EOR Production Profile





Solar EOR Production Profile





Increase Proven Reserves

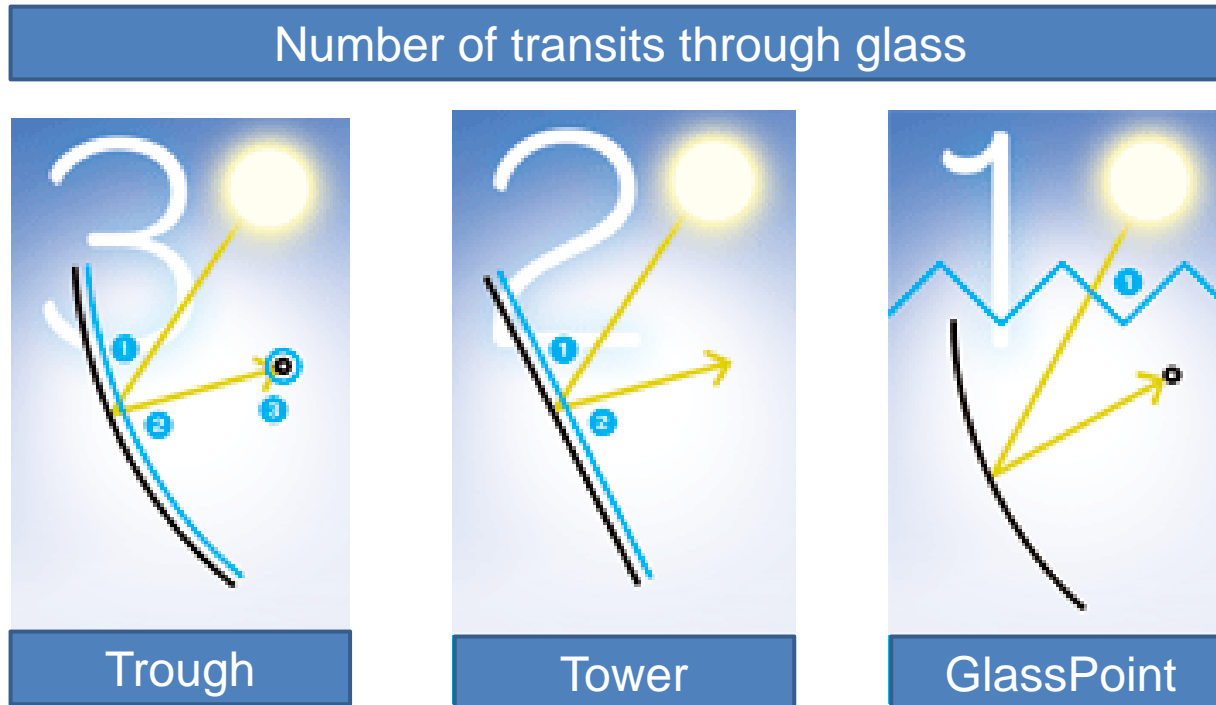
- 20% Solar = additional 12% of original oil in place
 - Field dependent
 - Proven reserves can be restated

- *We can contribute to your enterprise value.*



Environmentally Sealed





Greenhouse loses less energy from light passing through soiled glass than exposed mirror designs





Lean Execution

This video can be found at:

<http://www.youtube.com/watch?v=XkVwSPAHO8A>



4 Acre Rendering





Thank You

