

# Solar Oil Process Heat – KSA

## Saudi Aramco – *Qurayyah*

Commissioning Date	Feb 2021
# TVP Panels	510
Panel Area	1'020 m <sup>2</sup>
Mounting	ground-mount
Application	boiler feedwater
Thermal Peak Power	640 kW <sub>th</sub>
<b>TVP Production</b>	<b>850 MWh/yr</b>
<b>Delivery Temp</b>	<b>175°C</b>
Return Temp	93°C
<b>Savings: diesel</b>	<b>103'520 litre/yr</b>
<b>Savings: CO<sub>2</sub></b>	<b>288 ton/yr</b>
<b>Cost of Heat</b>	<b>41 USD/MWh</b>



Sunlight (GHI)	2'147 kWh/m <sup>2</sup> /yr
<b>TVP Performance</b>	<b>833 kWh/m<sup>2</sup>/yr</b>
<b>Avg. Efficiency</b>	<b>39 %</b>
Operating Hours	Daytime
Storage	none
Client Motivation	CO <sub>2</sub> reduction