

# Megawatt Solutions Private Limited



Indigenous High-Efficiency Solar Solutions  
for Heat & Power



## Contact us

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# About Megawatt Solutions Pvt. Ltd.



- MNRE-Channel Partner For Indigenous Concentrated Solar Thermal Solutions
- Indigenously Developed and Patented Proprietary Thermal & Power Solutions for Commercial, Industrial & Institutional Energy Consumers
- Design, Engineering, Manufacturing, Commissioning & Operations
- 100% Indigenous. Make In India
- Customers include NTPC, NDDDB, Mother Dairy, Mondelez & Various Majors
- Recognized For Continued Indigenous Innovation



MNRE Award For Solar Energy Innovator



MWS R&D Center Inauguration



Field-Proven MWS 2-axis Solar Thermal Tracker

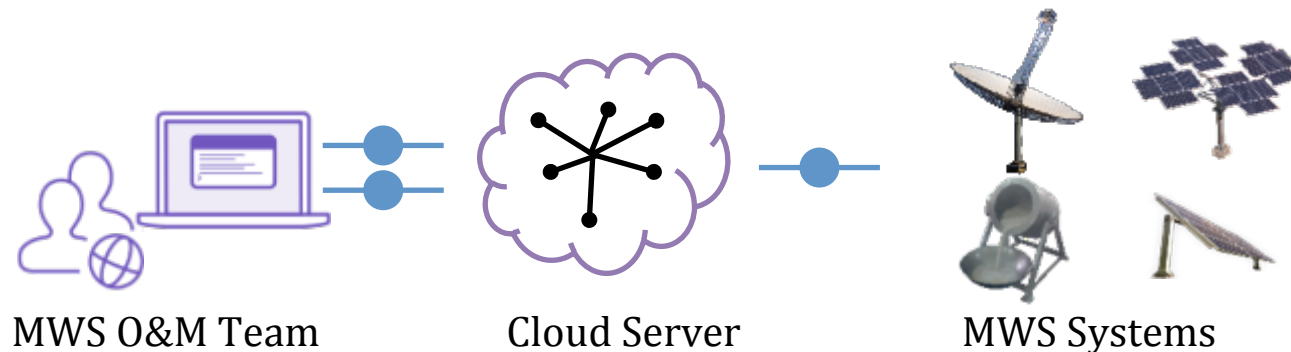
# The Megawatt Differentiator



## 1. Proprietary Custom-Engineered Solutions Delivered Turnkey



## 2. Remote Monitoring for Preventive O&M



Creating long-term value for customers through technology & commitment





Redefining Industrial Energy Generation

# MWS SOLAR FIELD





# MWS Paraboloid Dish Concentrator For Reducing Fuel Consumption In Manufacturing Industries



Dishes take very small ground space



System Cost covered in less than 3 years



Can be retrofitted to any existing system



Fully automated systems



Can heat up to 400°C



Reduces your carbon footprint emission



1. Incoming Solar Radiation gets concentrated by high efficiency MWS Paraboloid Dish Concentrator onto a cavity receiver with minimum losses
2. The concentrated energy is heat-transferred to various working fluids like hot water, Thermic Oils, etc.
3. Piping system routes energy from each receiver to end application for integration
4. Entire process is fully automated and dish tracks the Sun in two axis all year long

Reducing Industrial Carbon Footprint

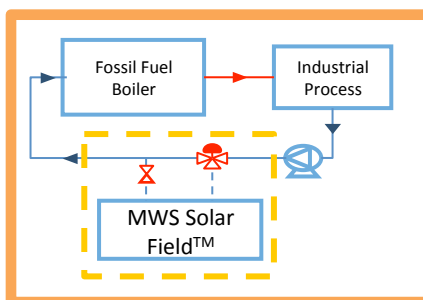




# MWS Solar Field Solution Is An Integrated Approach For Displacing Fossil Fuels For Process Heating

## MWS SOLAR FIELD™

### *MWS Solar Dish Concentrators*



*Process integration &  
Automation*



*Instrumentation &  
Piping Network*



Power Generation



Air Conditioning



Process Heat

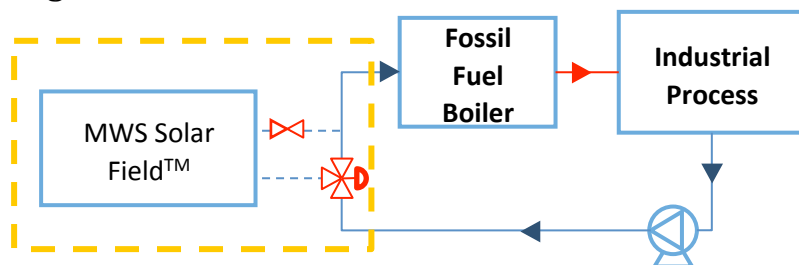


Desalination

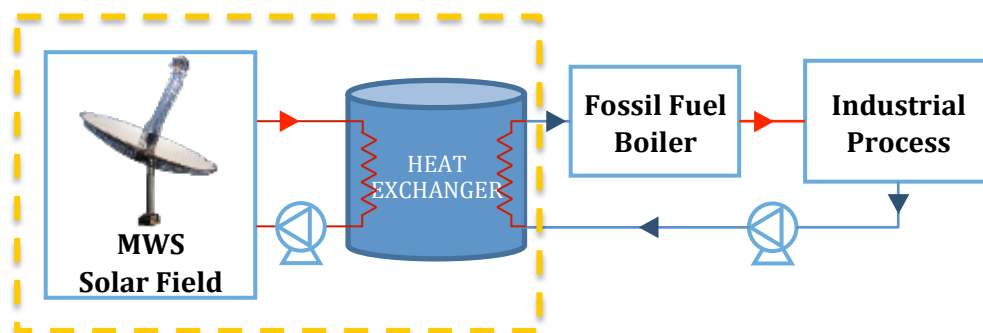


# MWS Solar Field™ Is Non-Invasive And Seamlessly Integrated To Existing Process Heating Circuits

## Direct Integration



## Indirect Integration



- No impact on customer processes
- Back-ended integration
- Full automation, controls and safety implemented in Solar Field

| Industry               | Working Fluids    | Temperature Range |
|------------------------|-------------------|-------------------|
| Pharmaceutical         | Steam, Air        | 80°C - 230°C      |
| Textile industry       | Water, Steam      | 60°C - 150°C      |
| Chemical Industry      | Steam, Air        | 80°C - 320°C      |
| Pulp & Paper Industry  | Steam             | Up to 185°C       |
| Food Industry          | Steam, Themic Oil | 80°C - 280°C      |
| Automobile Industry    | Water, Steam      | 60°C - 200°C      |
| Air Conditioning (VAM) | Water, Steam      | 60°C - 150°C      |



Clean Industrial Processes for Sustainable Manufacturing

# MWS Paraboloid Solar Dish Concentrator- Model M95



M95 Paraboloid Dish Concentrator: Peak Rating 3 Lac kcal Per Day



# MWS Solar Field™ Reference Installations



**CIP In Dairy, Pharmaceutical Industries  
Pressurized Hot Water Upto 160degC**



**Hot Air In Food, Textile & Sludge Drying  
Hot Air Generation Upto 150 degC**



**Thermic Oil In Chemical, Rubber, Polymer etc.  
Thermic Oil Heating Upto 220 degC**



**Boiler Feed Water Heating In All Industries  
Upto 95degC**





# MWS Solar Field™ Reference Installation At Motherdairy For Pressurized Hot Water Heating Upto 40 Lac kcal Per day





# Sludge Drying

For Reducing Moisture In Sludge From 65% to 5%  
By Hot Air Generation at 120degC





# MWS Paraboloid Solar Dish Concentrator- Model M20



M20 Paraboloid Dish Concentrator: Peak Rating 40,000 kcal Per Day

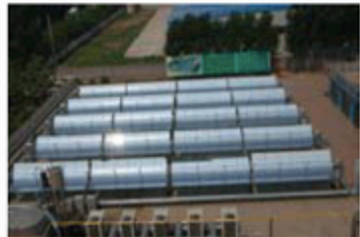


# MWS Parabolic Trough Concentrator





# MWS Solar Field References For Heating and Cooling





# Megawatt Solutions Private Limited



Clean Energy For All

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