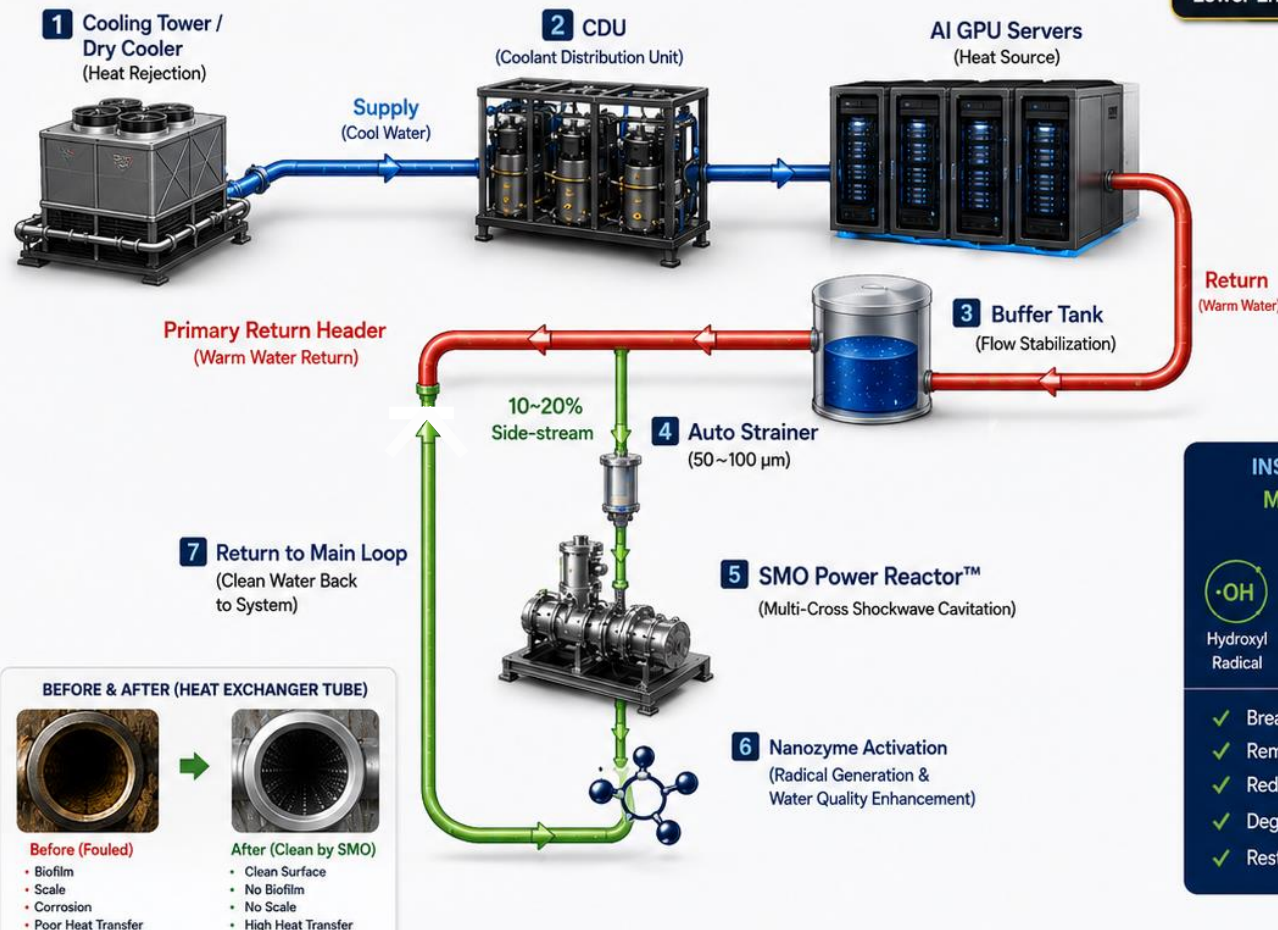


SMO SIDE-STREAM COOLING ARCHITECTURE

SMO POWER REACTOR™ INTEGRATED CIRCUIT DIAGRAM

High Delta T
More Cooling
Less Flow
Lower Energy

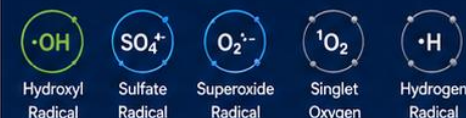


SMO TECHNOLOGY BENEFITS

- Removes Biofilm, Scale & Sludge at the Source ✓
- Restores & Maintains Heat Transfer Performance ✓
- Enables Stable High ΔT Operation ✓
- Reduces Pump Energy & OPEX ✓
- Improves System Reliability & Equipment Life ✓

INSIDE THE SMO POWER REACTOR™

Multi-Cross Shockwave Cavitation
Nanozyme Activation



- ✓ Breaks Biofilm & EPS
- ✓ Removes Scale & Corrosion
- ✓ Reduces Microbial Activity
- ✓ Degrades Organics & Sludge
- ✓ Restores Heat Transfer Surface

SMO SIDE-STREAM TECHNOLOGY DELIVERS



Stable High ΔT
Up to 3~5°C Increase



Lower Flow
Up to 30~50%



Lower Pump Energy
Up to 30~50%



Lower OPEX
Up to 20~40%



Longer Equipment Life
Up to 2x Longer



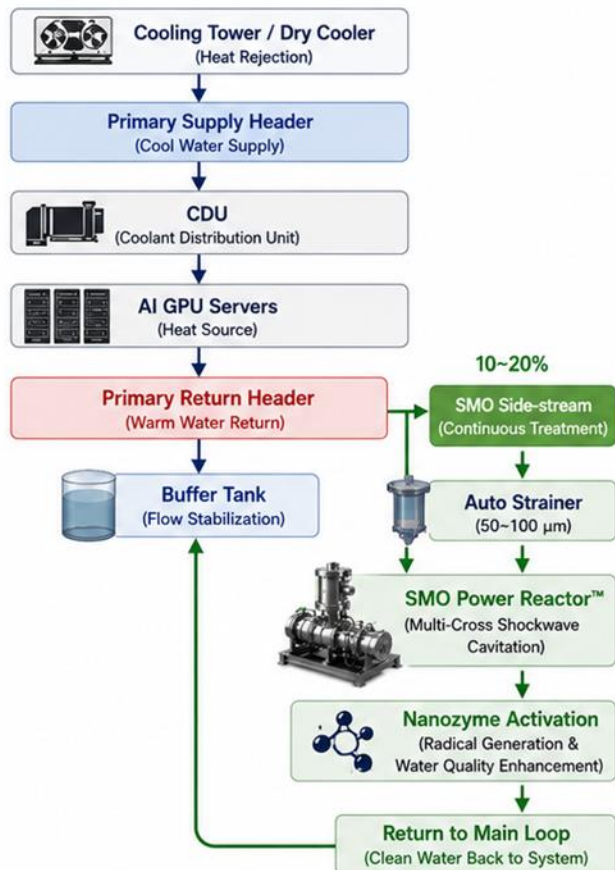
Lower Carbon Emissions
Up to 20~40%



SMO Power Reactor™ Side-stream Technology | Keeps the Cooling Loop Clean & Efficient for Maximum Performance and Sustainability

3 SMO Side-stream Cooling Architecture

SMO Technology Delivers Clean Water, High Heat Transfer and System Efficiency



SMO TECHNOLOGY PERFORMANCE BENEFITS



FOULING REMOVAL
(Scale, Sludge, Deposits)

- ✓ Continuously removes scale and deposits from the entire cooling loop
- Restores heat transfer efficiency



BIOFILM SUPPRESSION
(Bacteria, Algae)

- ✓ Suppresses biofilm growth and microbial activity
- Keeps system clean and stable



PARTICLE REDUCTION
(Suspended Solids)

- ✓ Reduces particles and sludge, prevents re-deposition
- Protects heat exchangers and pipes



HEAT TRANSFER RECOVERY
(Clean Heat Exchangers)

- ✓ Restores and maintains high heat transfer performance
- Enables High Delta T operation



STABLE HIGH ΔT
(Sustainable Performance)

- ✓ Maintains stable High ΔT with lower flow and lower energy
- Maximizes system efficiency

Keep the System Clean
Maximize Heat Transfer

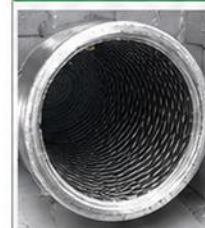
Before (Fouled)



- ✗ Biofilm
- ✗ Scale
- ✗ Corrosion
- ✗ Sludge
- ✗ Poor Heat Transfer



After (Clean by SMO)



- ✓ Clean Surface
- ✓ No Biofilm
- ✓ No Scale
- ✓ No Corrosion
- ✓ High Heat Transfer

SMO Side-stream Treatment Delivers Proven Results



Up to
30~50%
Improvement in
Heat Transfer
Efficiency



Up to
30~40%
Reduction in
Pump Energy
Consumption



Up to
20%
Reduction in
OPEX &
Maintenance



**Stable High ΔT
Operation**
Consistent Cooling
Performance
Over Time



**Lower Carbon
Emissions**
Supports ESG Goals
and Sustainability

SMO Power Reactor™
keeps the cooling loop clean and
the heat exchangers efficient.



**Stable High ΔT
Higher Efficiency**



**Lower Energy
Consumption**



**Lower OPEX
& Maintenance**



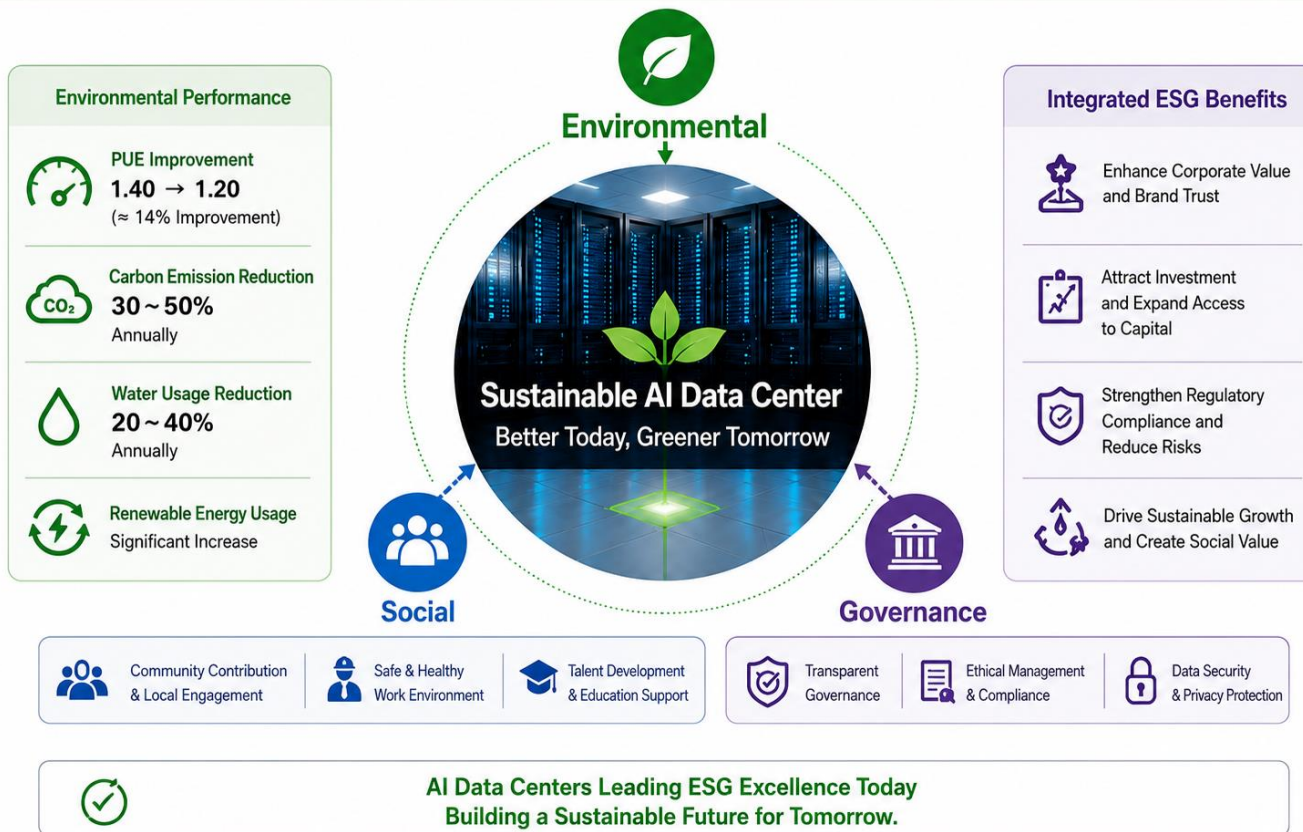
**Higher Reliability
& Uptime**



SMO Technology Enables

Clean Water, High Heat Transfer, Stable High ΔT , Lower Energy and Higher System Reliability

ESG Implementation in AI Data Centers



본 파일은 일부 페이지만 공개합니다.

완전한 파일을 원하실 경우
당사에 문의 주시기 바랍니다.

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