

STRATEGY OF ADOPTION OF DRYTRANS SOLUTIONS

RIGHT SOLUTION. RIGHT TRANSFORMER. RIGHT TIME.

A structured approach to assess, prioritize and implement continuous moisture control for maximum impact on reliability and asset life.

THE DRYTRANS ADOPTION FRAMEWORK



WHEN TO ADOPT DRYTRANS SOLUTIONS

- Moisture levels are consistently high or rising
- Breakdown voltage or dielectric strength is declining
- Furan, acidity or aging indicators are increasing
- After major maintenance, drying or oil reclamation
- During new installation or transformer commissioning
- For critical and high-value transformers where reliability is essential

CHOOSE THE RIGHT SOLUTION

TR SERIES

Single Cylinder System

Ideal for:

- ✓ Routine moisture control
- ✓ Standard duty transformers
- ✓ Cost-effective solutions
- ✓ No/optional monitoring needs

TRAM SERIES

Dual Cylinder System

Ideal for:

- ✓ High moisture load applications
- ✓ Critical & large transformers
- ✓ Continuous high performance
- ✓ Maximum moisture removal

MMS90

Advanced Monitoring & Control System

- ✓ Intelligent PLC based system
- ✓ Data logging & storage
- ✓ Remote communication
- ✓ Real-time insights & alarms

SOLUTION SELECTION GUIDE

REQUIREMENT / CONDITION	TR SERIES TR5 / TR20 / TR50	TRAM SERIES TRAM20 / TRAM50 / TRAM90	MMS90
Moisture removal (continuous)	✓	✓	✓
High moisture load	-	✓	✓
Critical / large transformers	-	✓	✓
Monitoring & data logging	Optional	Optional	✓
Remote communication	-	Optional	✓
Real-time alerts & insights	-	Optional	✓
Best for	Standard Applications	High Performance Applications	Intelligent & Critical Applications

EXPECTED OUTCOMES

- Lower Moisture Levels**
Maintain low and stable moisture in oil and paper.
- Stronger Insulation**
Improve dielectric strength and insulation reliability.
- Slower Aging**
Reduce aging rate and extend insulation life.
- Lower Maintenance Cost**
Reduce failures, repairs and unplanned outages.
- Higher Reliability & Value**
Maximize uptime, performance and asset value.

A PROACTIVE APPROACH FOR LONG TERM RELIABILITY



“ The right strategy today ensures a reliable transformer tomorrow. **Control Moisture. Preserve Paper. Extend Life.** ”



DRYTRANS – YOUR PARTNER IN RELIABILITY
Right Strategy. Right Solution. Right Results.

Continuous Moisture Control

Real-time Monitoring

Accurate Diagnostics

Expert Support

Smarter Decisions

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THE CHOICE IS YOURS

TWO PATHS. TWO OUTCOMES. ONE DECISION THAT DEFINES YOUR TRANSFORMER'S FUTURE.

Transformer failures are not random – they are the result of unmanaged moisture and aging.

You can either accept the risk, or take control. The choice is yours.

CONTINUE WITHOUT MOISTURE CONTROL



HIGH MOISTURE EQUILIBRIUM

Moisture remains high in oil and paper.



FASTER INSULATION AGING

Accelerated chemical aging of oil and paper.



LOWER DIELECTRIC STRENGTH

Reduced breakdown voltage and dielectric margin.



HIGHER FAILURE PROBABILITY

Increased risk of insulation failure and unexpected outages.



REACTIVE MAINTENANCE

Unplanned repairs, emergency outages and higher operational disruption.



INCREASING LIFECYCLE COST

More failures, repairs and downtime drive up total cost of ownership.



REDUCED TRANSFORMER LIFE

Shorter useful life and earlier replacement cycle.



HIGH RISK. HIGH COST. UNPREDICTABLE FUTURE.



THE CHOICE IS YOURS

“ The physics inside the transformer does not change...

Only the way you manage it.”



Your decision today determines reliability, performance and value tomorrow.

CHOOSE DRYTRANS – CONTROL MOISTURE CONTINUOUSLY



LOW MOISTURE EQUILIBRIUM

Moisture is continuously removed and kept at optimal levels.



SLOWER INSULATION AGING

Slows down chemical aging and preserves paper insulation.



HIGHER DIELECTRIC STRENGTH

Improved breakdown voltage and stronger insulation reliability.



LOWER FAILURE RISK

Reduced risk of faults and unexpected outages.



PROACTIVE MAINTENANCE

Planned maintenance with better control and fewer surprises.



OPTIMIZED LIFECYCLE COST

Lower maintenance, fewer outages and better return on investment.



EXTENDED TRANSFORMER LIFE

Maximized asset life and delayed replacement.



LOW RISK. LOWER COST. RELIABLE FUTURE.



Don't wait for failure to make the decision.
Control moisture today. Secure reliability for tomorrow.



UP TO
10–20 YEARS
Life Extension



70–80%
Reduction in
Failure Risk



15–30%
Lower Lifecycle
Cost



>95%
Improved Reliability
& Availability



DRYTRANS – YOUR PARTNER IN RELIABILITY
Control Moisture. Preserve Insulation. Extend Life.



Continuous
Moisture Control



Real-time
Monitoring



Accurate
Diagnostics



Expert
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CONCLUSION

CONTROL MOISTURE. PRESERVE INSULATION. EXTEND LIFE.

Transformer reliability is not about luck – it is about **understanding** the true condition, making the right **decisions** and taking **continuous action**.



Continuous Moisture Control

KEY TAKEAWAYS

1



MOISTURE IS THE ROOT CAUSE

Moisture is the primary driver of insulation aging and the majority of transformer failures.

2



INSULATION AGING IS INEVITABLE, BUT CONTROLLABLE

Aging happens over time, but its rate can be slowed down significantly.

3



TESTING GIVES DATA, UNDERSTANDING GIVES DIRECTION

Comprehensive testing and expert assessment reveal the true health and risks.

4



CONTINUOUS CONTROL DELIVERS RELIABILITY AND VALUE

Continuous moisture control ensures stable insulation, lower risk and longer life.

5



THE RESULT: PERFORMANCE, PROTECTION, PEACE OF MIND

Better reliability, optimized cost and extended transformer life for a stronger grid.



DryTrans provides the **complete solution** – from assessment to continuous control. We help you **protect your investment** and build a **more reliable tomorrow**.

“ You can't manage what you don't measure. You can't improve what you don't understand. You can't control what you don't act on. ”



THE TIME TO ACT IS NOW.

Test. Understand. Decide. Act. Control Continuously.

Together, let's ensure reliable transformers and a resilient grid for generations to come.



WITH DRYTRANS, YOU GET



UP TO
10-20 YEARS
Life Extension



70-80%
Reduction in
Failure Risk



15-30%
Lower
Lifecycle Cost



>95%
Improved
Reliability &
Availability



Our commitment is simple: **Control Moisture. Preserve Insulation. Extend Life.**
Your Partner in Reliability. Today and Tomorrow.



DRYTRANS – YOUR PARTNER IN RELIABILITY
Intelligent Solutions. Proven Results.



Continuous
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Real-time
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