

SF6 FREE SWITCHGEAR MITH DRY AIR

Delivering power in today's challenging environments











SF6 FREE SWITCHGEAR WITH DRY AIR

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SF6-FREE SWITCHGEAR WITH DRY AIR

SF6-Free switchgear features

- ► Zero GWP* solution substituting SF6 with dry air insulation, which features easy handling and nontoxic effects
- An operating temperature range of -50° C to 50° C, which eliminates the need for tank heaters in substations
- Significantly lower operational and maintenance (O&M) costs
- ► A life cycle of 20+ full-fault interruptions, which extends product lifespan compared to equivalent voltage SF6 gas insulated breakers whilst achieving no maintenance on VCB contact replacement





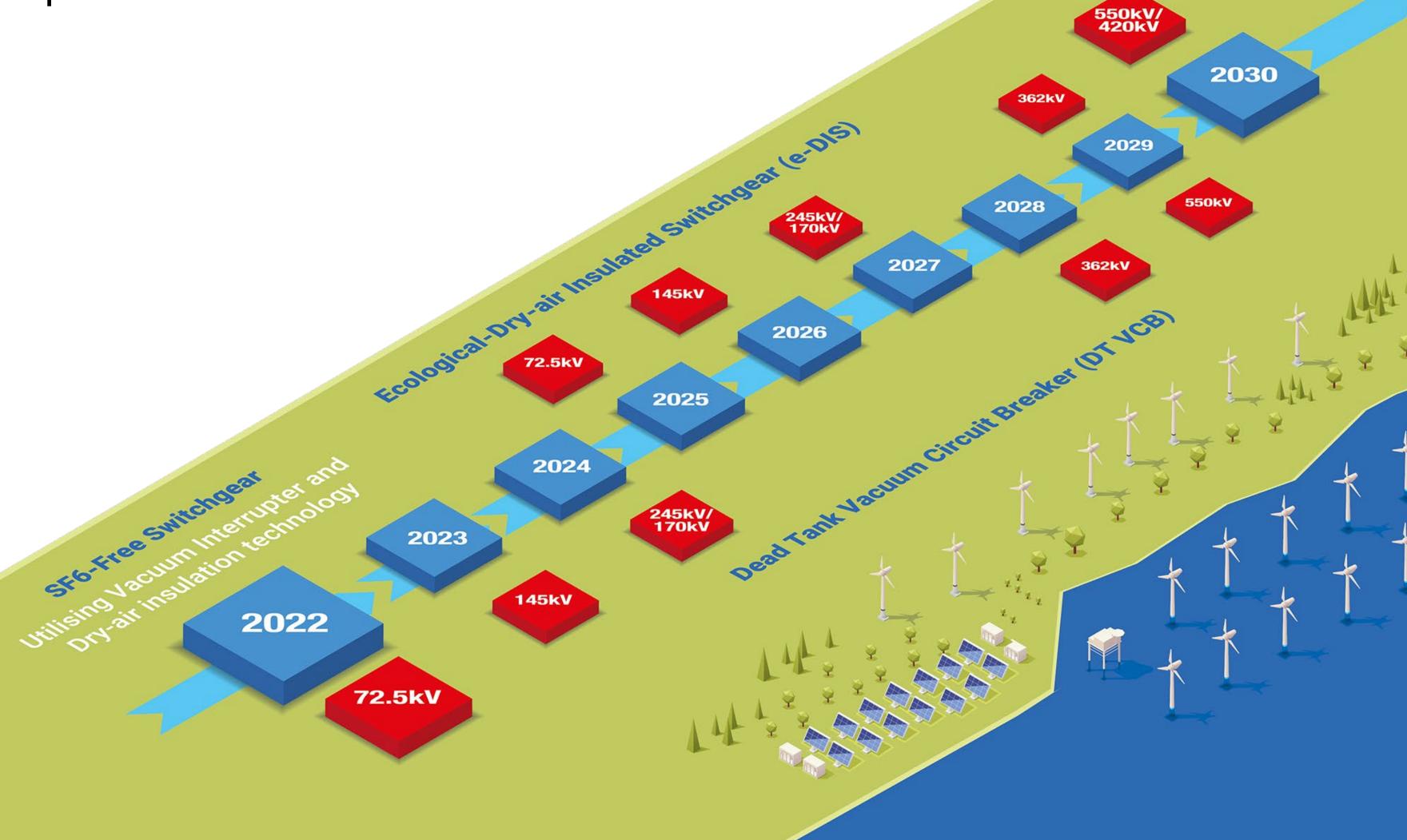




DEVELOPMENT ROADMAP

Mitsubishi Electric is focused on providing high voltage, dead-tank circuit breakers and switchgear with dry air technology for insulation, which is sustainable and non-toxic.

We are on a path to developing SF6-free switching equipment for our customers' high voltage applications that has zero impact on the environment.











72kV VACUUM CIRCUIT BREAKER

Features

- Pressurized dry air insulating medium
- **▶** 31.5kA Interrupter capacity
- **2000A Continuous current rating**
- **> 350kV BIL**
- ► Full fault current life of 20+ operation
- Spring / spring drive mechanism
- ► M2 (10,000 operations) mechanical life
- > 50°C to +50°C temperature range
- No tank heaters required

Key differentiators

- ► Mitsubishi Electric Vacuum Interrupters
- Superior multi-stage / dry-air seal system
- ► Focus on minimizing overall breaker size
- ► Fork-lift tubes options









THE CASE FOR VACUUM

Features

- Reliable decades of history in medium voltage
- ► Ecological zero Global Warming **Potential**
- Regulatory no reporting or tracking requirements
- ► Safety no special HAZMAT or PPE
- ▶ O&M no complicated gas handling
- ► TCO overall lower lifetime costs







