

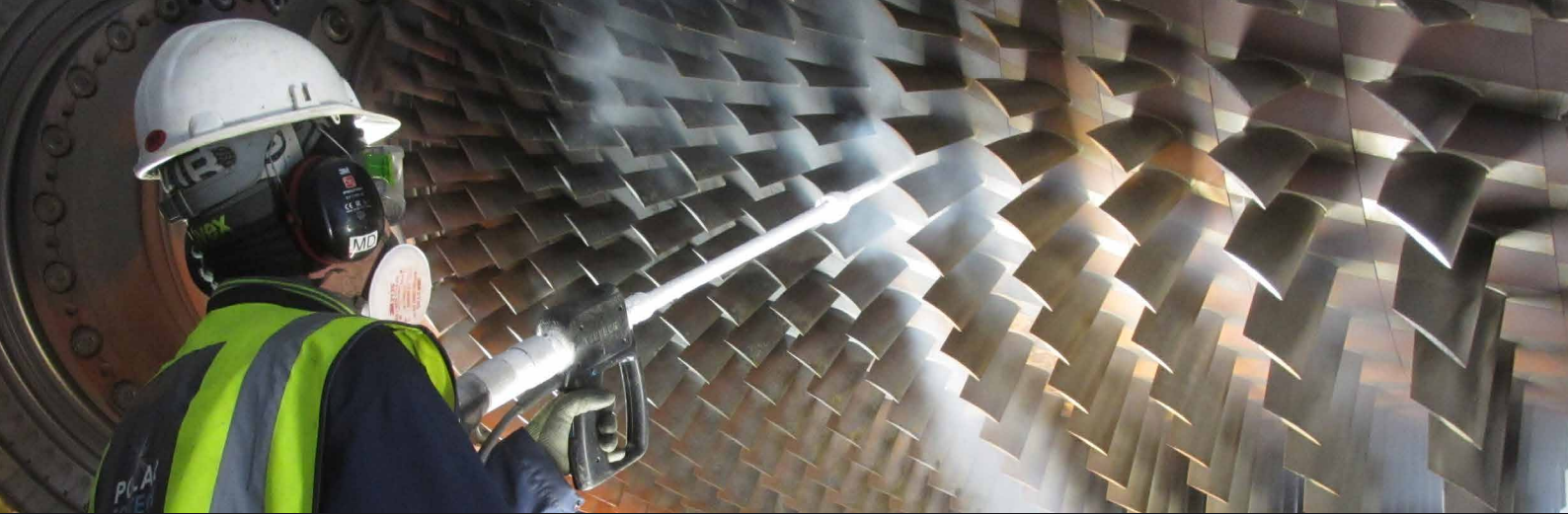
POLARICETECH

Dry Ice Blasting Specialists



**TURBINE CLEANING
WITH DRY ICE BLASTING**

www.polaricetech.ie



TURBINE CLEANING WITH DRY ICE BLASTING

- **Non-abrasive**
- **No secondary waste produced**
- **Gives a faster, superior clean**

- **Downtime is significantly reduced**
- **Extends reliability and lifespan**
- **Eco-friendly, sustainable media**

In turbines, a buildup of hardened carbon, rust and oil can cause reliability and performance issues. This may result in inefficiencies, higher fuel consumption and increased turbine wear, impacting on operating costs and maintenance intervals, and reducing the lifespan of the asset.

Due to this, the outage time typically needed for cleaning can be reduced significantly. Dry Ice Blasting not only provides a faster clean, but cleans to a higher standard. This provides a superior result with less downtime, meaning a quicker return to production.

Why use Dry Ice Blasting for Turbines?

We at Polar IceTech clean multiple components of gas and steam turbines: turbine blades, compressor blades, casings, discs, bearing seals, labyrinth seals.

The turbine featured in the image on the right had been manually cleaned by 2-3 people for a total of 120 hours. Dry Ice Blasting reduced this to just two people cleaning for 18 hours, a reduction of 85%.

Alternative methods of cleaning are time consuming and labour intensive. There is a risk that they will make contact with critical components and cause damage, creating potential for failure to occur. With Dry Ice Blasting, contaminants and oxidation are effectively removed without causing abrasion to the surface (does not affect tolerances), returning the metal to its original condition.

What is Dry Ice?

Dry Ice is the solid form of carbon dioxide (CO₂). The Dry Ice we use at Polar IceTech is produced from reclaimed and recycled CO₂, therefore is carbon neutral and a sustainable media.

Dry Ice Blasting is suitable for both major and minor outages. In particular, it is ideal for minor outages pre-inspection and the NDT process. The high quality clean Dry Ice Blasting produces means that defects can be spotted easily during inspection, minimising risk of malfunction and improving equipment reliability.

What is Dry Ice Blasting?

Dry Ice Blasting is a technically innovative cleaning solution and a cost-effective way for industries to maximise production capability and extend the lifespan of high-value capital equipment.

Dry Ice Blasting does not produce a secondary waste stream. As only the primary contaminant needs to be cleaned and removed, the time and costs spent on clean up and disposal are significantly reduced.

Who are Polar IceTech?

We at Polar IceTech are solutions providers that specialise in Dry Ice Blasting, working with industry to clean high-value assets efficiently. We have close to 15 years of experience working with leading global companies and providing eco-friendly cryogenic cleaning solutions to suit their business needs.

Dry Ice Blasting provides a sustainable, environmentally responsible cleaning process that allows equipment to be cleaned in-place pre-inspection.

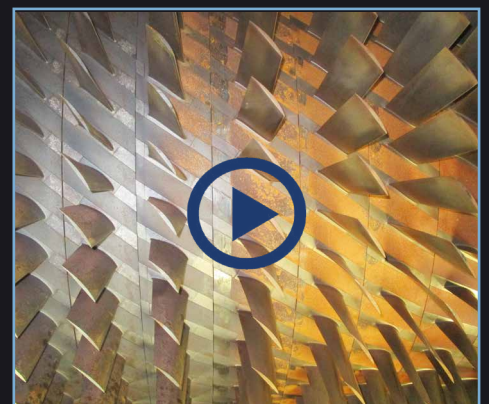
For more about Dry Ice Cleaning
www.polaricetech.ie



A TURBINE SHAFT DURING THE DRY ICE BLASTING PROCESS



DRY ICE BLASTING IS IDEAL FOR MINOR OUTAGES PRE-INSPECTION CLEANING



CLICK ON THE VIDEO TO VIEW THE RESULTS OF TURBINE CLEANING WITH DRY ICE BLASTING

Multi Award Winning Company



POLAR ICETECH
 Dry Ice Blasting Specialists

ROI: +353 (0)21 4232020
 NI / UK: +44 (0)28 95680037
www.polaricetech.ie