

## Application Bulletin

### Power Generation

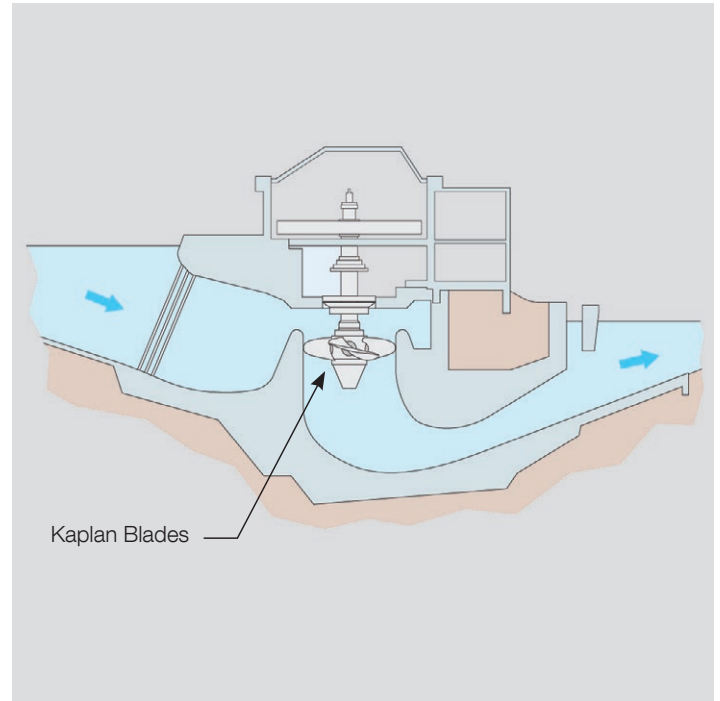
### Hydropower – Kaplan Turbine Blades

**Kaplan water turbines employ an adjustable propeller that allows the turbine to efficiently work in various flow conditions. However, turbine efficiency can be reduced as a result of exposure of the propeller blades to erosive media, such as sands, silts and gravels. The blades are also subject to fluid erosion and cavitation.**

#### The Oerlikon Metco Solution

Protect Kaplan blades from erosion and cavitation with Oerlikon Metco HVOF materials and application equipment.

- Extend Kaplan blade service life
- Ensure high turbine efficiency
- Maintain expected turbine power output



#### Recommended Oerlikon Metco Products

Amdry 5843	High performance coating material with very good cavitation resistance
WOKA 3652	High performance coating material for erosion and cavitation resistance
WOKA 3652-FC	High performance coating material, especially for extra-fine silt conditions
HVOF Systems	HVOF gas and liquid fuel thermal spray application systems

#### More Information

DSM-0310
DSM-0221
DSM-0221
HVOF Solutions

Information is subject to change without prior notice.