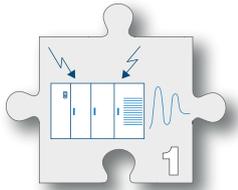


# 9 steps to optimizing MEGADRIVE-LCI operation



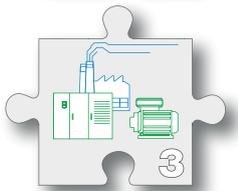
## 1. Understand the challenges

Traditional LCI drive control methods can be highly sensitive to grid voltage sags leading to loss of torque during the sag, causing application to stop.



## 2. Conduct front-end engineering and design (FEED)

ABB's expertise and approach mitigates any risk via detailed preparation and planning, encompassing all aspects of engineering and logistical risk management.



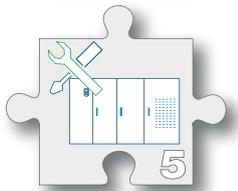
## 3. Analyze applications fully

Select, dimension and determine ways to extend life of extruders, propulsion systems, blowers, pumps and fans.



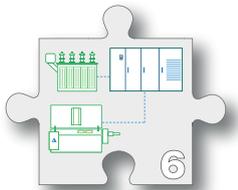
## 4. Perform failure mode and effects analysis (FMEA)

FMEA determines drive system resilience by measuring and evaluating the potential for failure throughout its life cycle.



## 5. Implement findings

Prevent failure by implementing redundant circuits through to optimizing component maintenance plans.



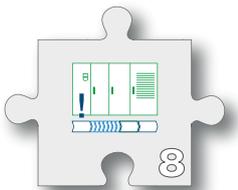
## 6. Maximize performance through model predictive torque control (MPTC)

MPTC is based on a specific model for the converter and motor, predicting and optimizing future behavior of drive based on customer process requirements and restrictions - brings unprecedented availability based on the process requirements.



## 7. Consider ongoing expert support

Step-by-step assistance during rollout helps ensure the advanced solution will operate as predicted and beyond the earlier boundary limitations.



## 8. Proactively manage obsolescence risks

Be aware of when drive system is approaching end of its useful life and consider upgrades and retrofits – before production is negatively impacted.



## 9. Optimize return on investment

Good housekeeping ensures:

- Consistent productivity
- High reliability
- Increased safety
- Energy efficiency