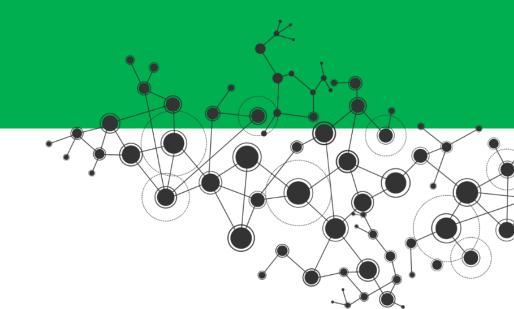
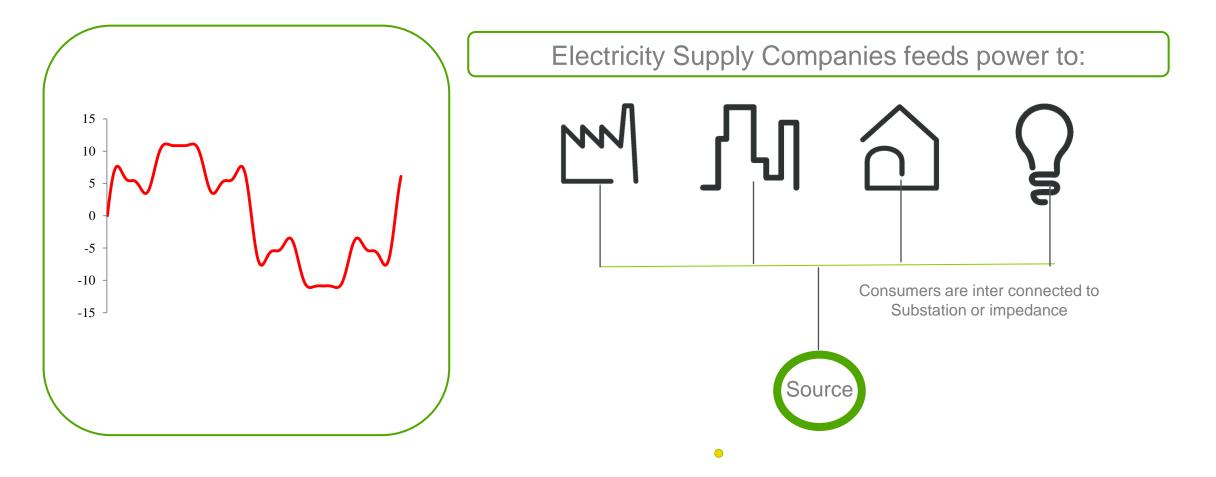


Power Quality – Challenges & consequences on Utilities

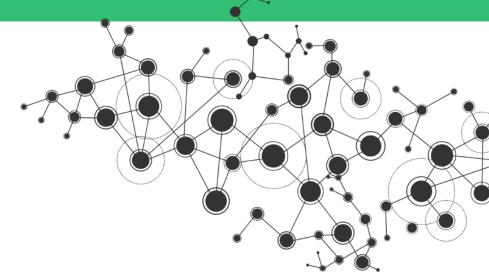
M.R.Srinivas Edison Expert – PQ Solutions



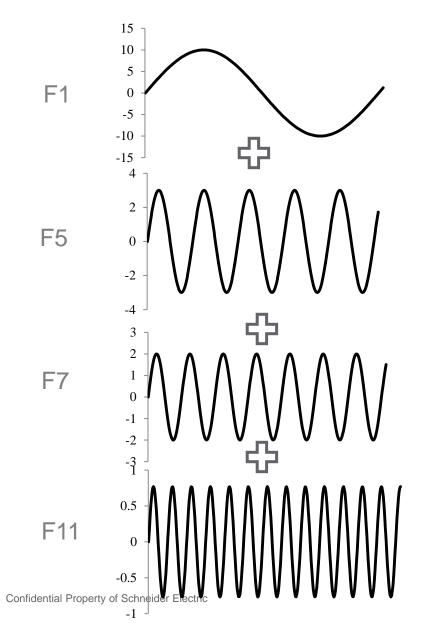
PQ – Challenges & Consequences



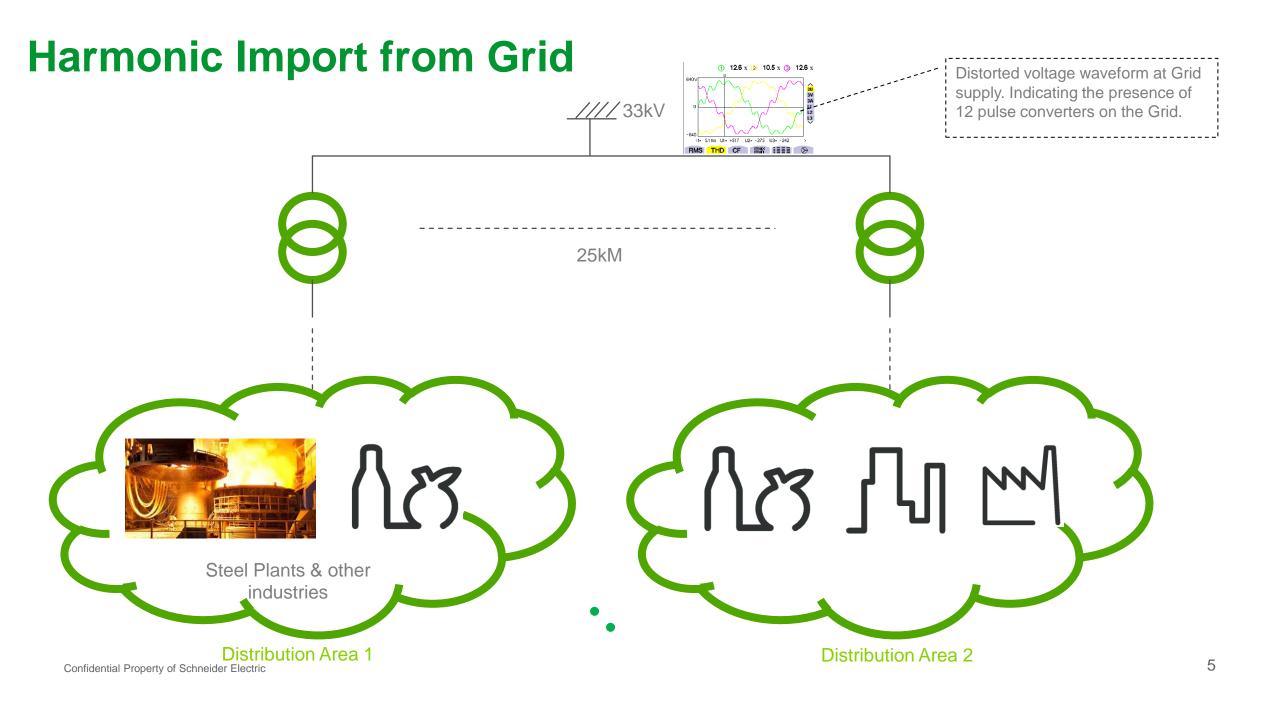
PQ – Case 1: Harmonic import through Utility



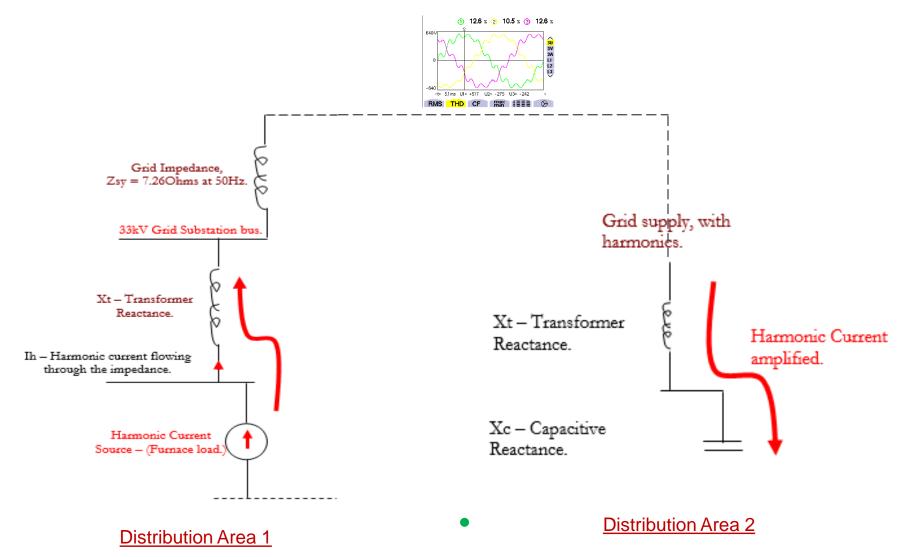
Harmonic Recap



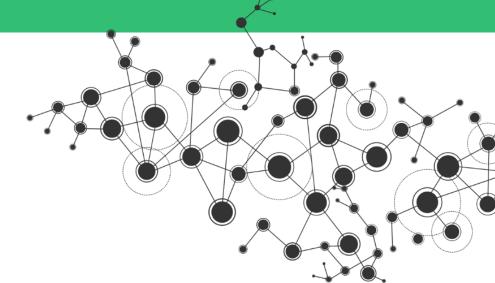




Mathematical modelling



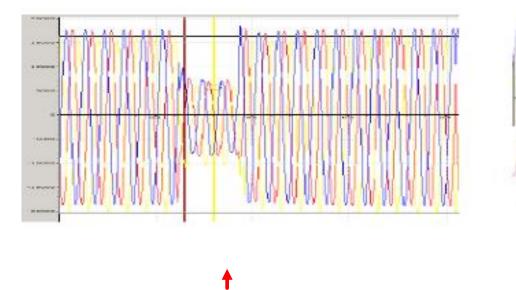
PQ – Case 2: Voltage SAG



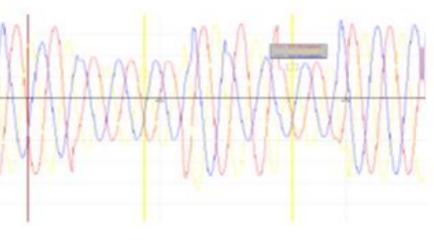
Voltage SAG From Grid

- ✓ One of the Auto mobile plant suffering from Voltage SAG from incoming 22kV supply.
- ✓ The Voltage SAG is causing frequent tripping of ACB connected to Paint Shop.
- ✓ Production outage approx. 6 cars per tripping



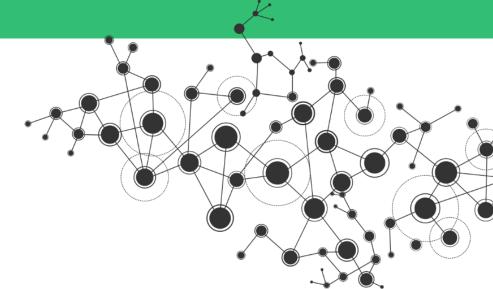


Event 1



Event 2

Effect on Utilities & Consumers



Effect on Utility & Consumers



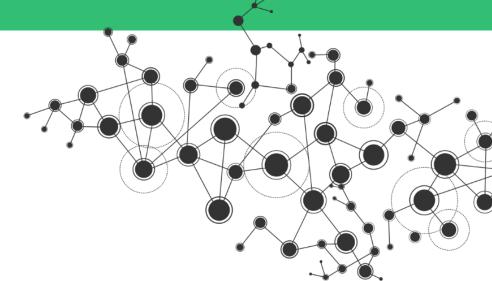




Consumers

Confidential Property or Schneider Electric

How Schneider can Help?



How Schneider Can help?

- ✓ Global Expert in Power Quality
- ✓ Working experience with many utilities Globally.
- ✓ Problem identification till solution implementation.
- ✓ Dedicated Team of Experts for Power Quality solutions.
- ✓ World class products to resolve PQ issues (completely type tested).



VArSet APFC Panels



AccuSine+ Active Harmonic filter



Voltage SAG/Swell Fighter



Life Is On Schneider