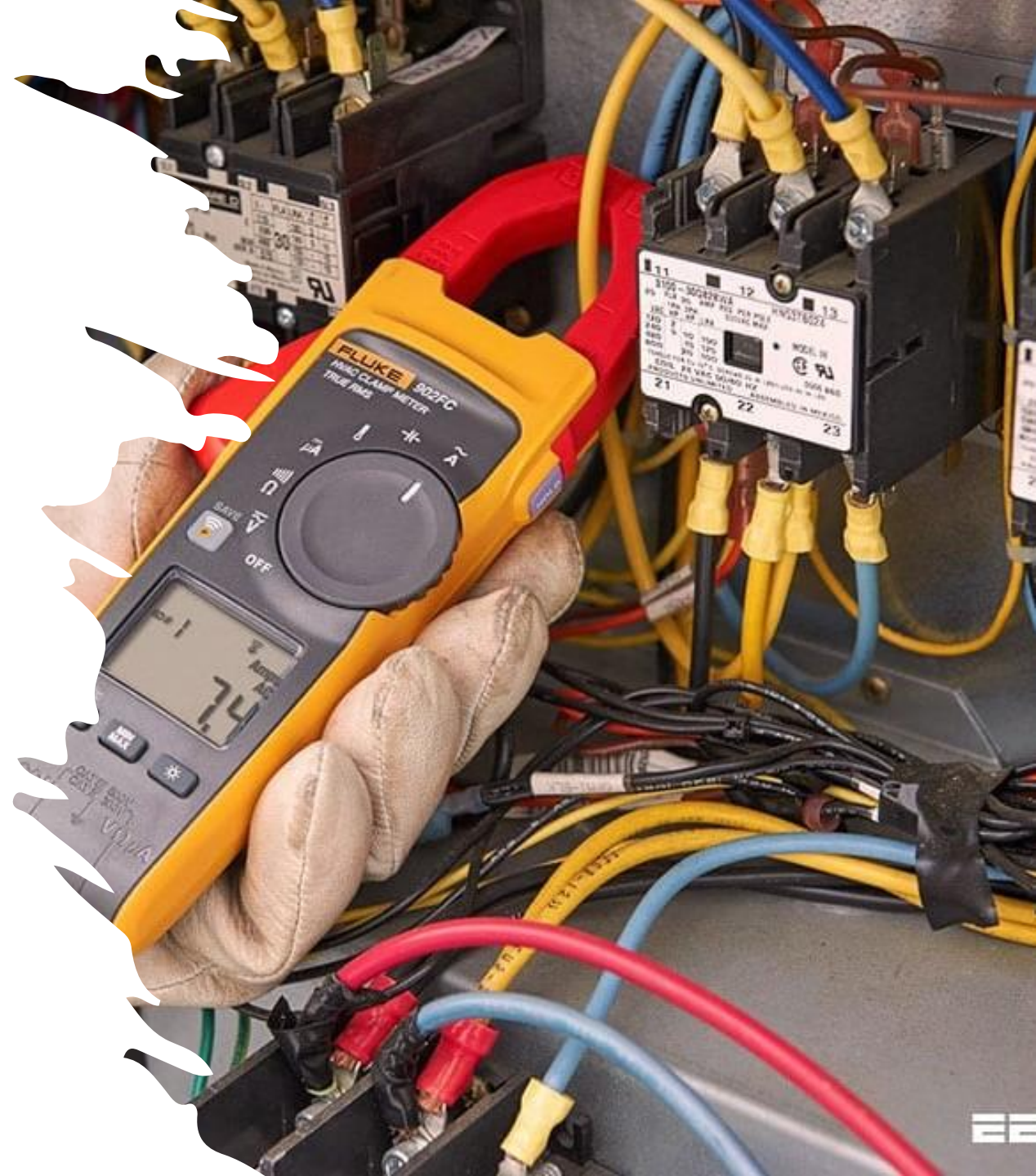


POWER QUALITY AND APPLIED CONTROL RESEARCH GROUP



ANGGOTA



Diah Septi Y., S.ST., M.T.



Sutedjo, S.T., M.T.



Drs. Irianto, M.T.



Renny Rakhmawati, S.T., M.T.



Ahmad Firyal A., S.ST., M.T.

DESKRIPSI

- Kualitas daya sistem tenaga listrik menjadi perhatian penting karena peningkatan teknologi peralatan listrik dan elektronik. Peralatan tenaga listrik yang berupa beban non-linear menghasilkan sinyal yang mengganggu kualitas daya.
- Masalah kualitas daya berdampak signifikan pada efisiensi peralatan yang terhubung ke jaringan dan oleh karena itu harus dianggap penting.

FRAME WORK

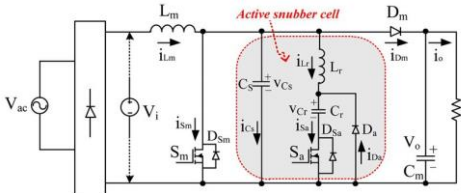
POWER QUALITY AND APPLIED CONTROL RESEARCH GROUP



ADF P25

Harmonics Filter

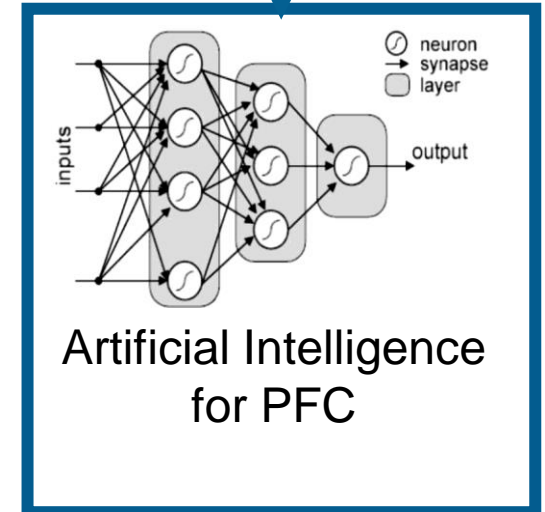
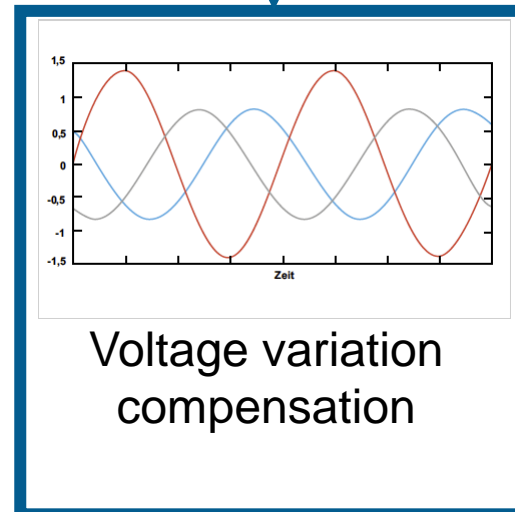
A photograph of a blue industrial harmonics filter unit labeled 'ADF P25'. To its left, a pink waveform shows distorted, non-sinusoidal current. To its right, a green waveform shows a clean, smooth sinusoidal current.



Active snubber cell

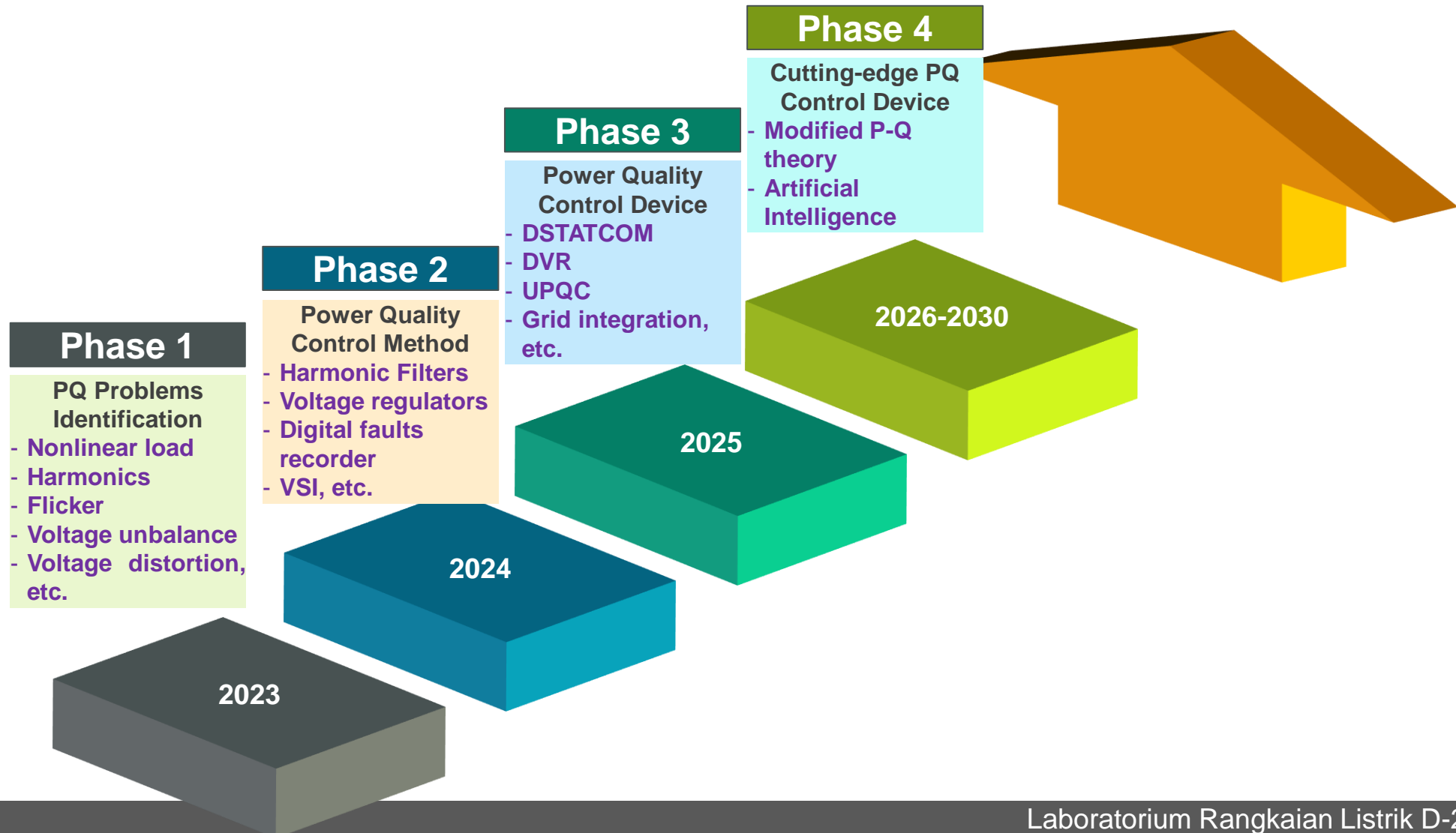
Converter for Power Factor Correction

A detailed circuit diagram of a power factor correction converter. It features an AC input V_{ac} , a diode bridge rectifier, a boost inductor L_m , a MOSFET switch S_m , a diode D_{sm} , an active snubber cell (consisting of a capacitor C_s , a diode D_s , and a MOSFET S_s), a boost diode D_m , a boost inductor L_r , a diode bridge rectifier, and a load resistor R_L . Various current and voltage labels are present throughout the circuit.



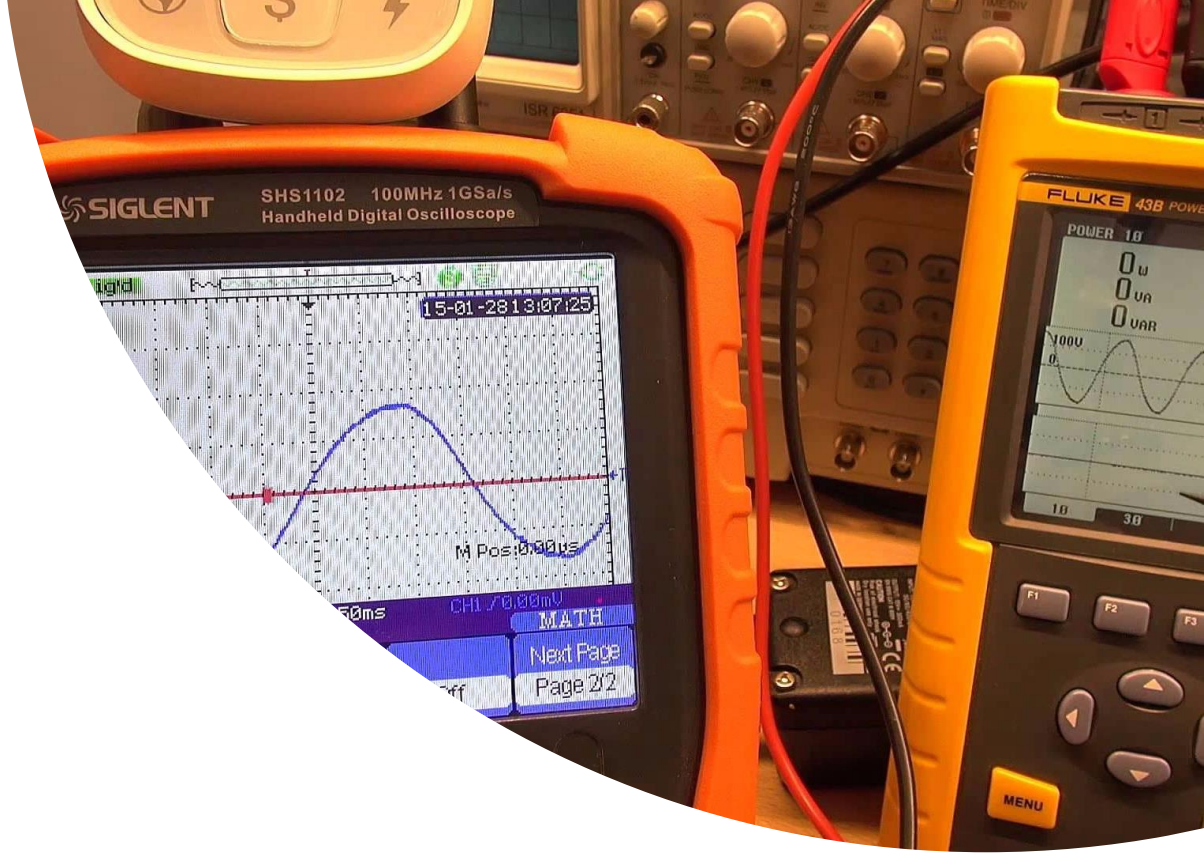
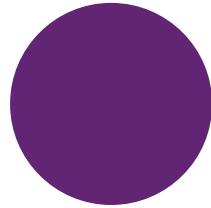
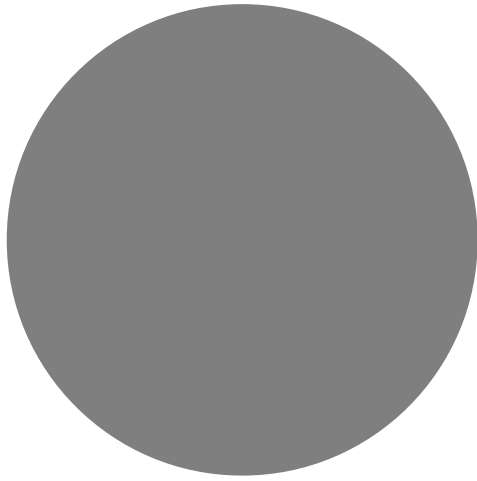
ROAD MAP PENELITIAN

RG Power Quality and Applied Control



TARGET CAPAIAN





TERIMA KASIH
