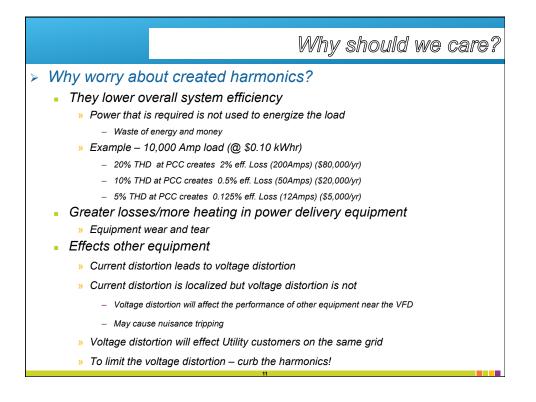


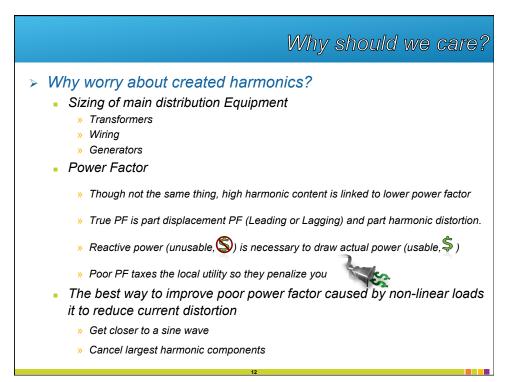
-100

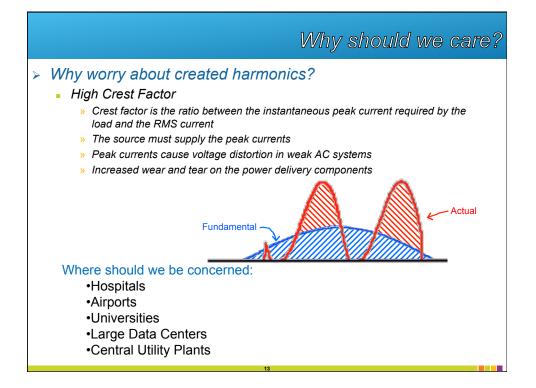
Definition of THD Ratio of the square root of the sum of squares of the rms value of harmonic component to the rms value of the fundamental component is defined as Total Harmonic Distortion (THD) If the waveform under discussion is current, then the THD definition is called Current

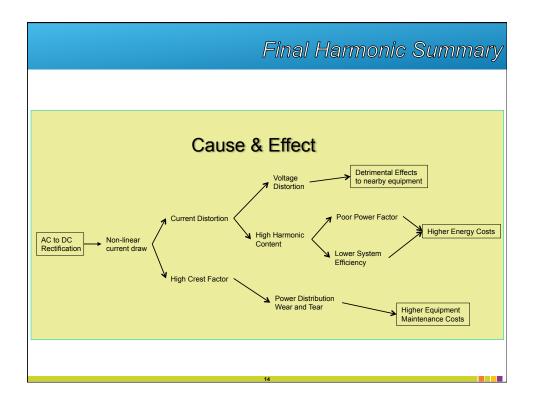
If the waveform under discussion is current, then the THD definition is called Current
Harmonic Distortion. If the waveform under discussion is voltage, then the THD
definition is called <u>Voltage Harmonic Distortion</u>

$$THD_{I} = \frac{\sqrt{\sum_{n=2}^{n=\infty} I_{n}^{2}}}{I_{1}} \qquad THD_{V} = \frac{\sqrt{\sum_{n=2}^{n=\infty} V_{n}^{2}}}{V_{1}}$$



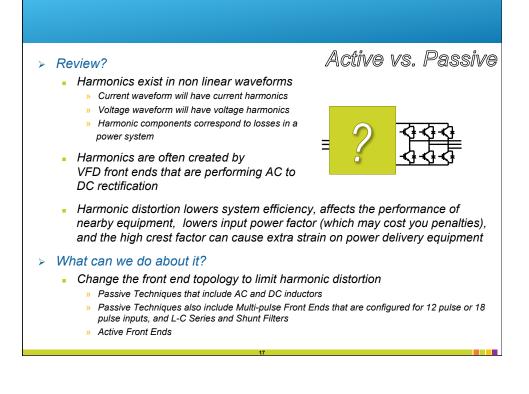


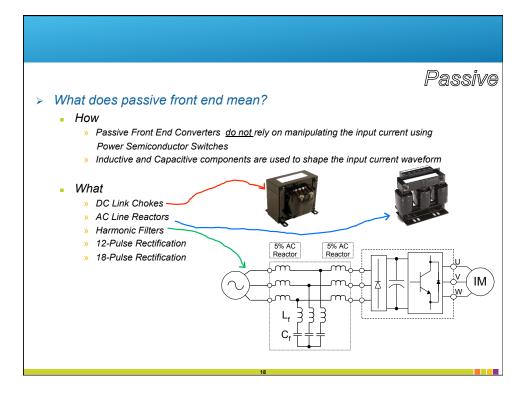


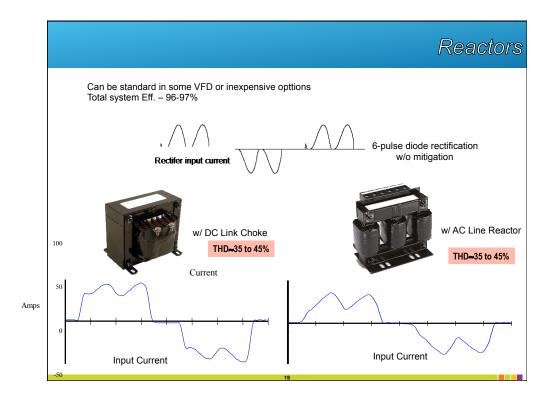




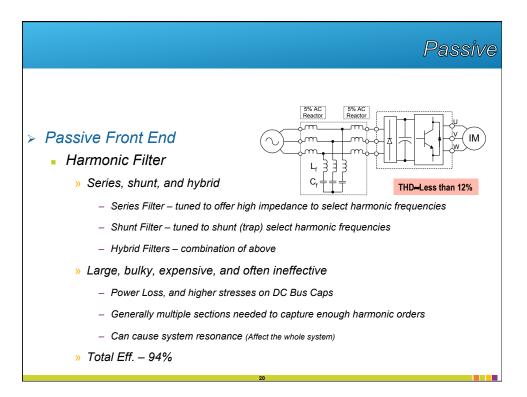
Harmonic Perform				
	Current Waveform	Current Spectrum	System Eff.	iTHD
AC drive without reactor	MWWWW	100% 100%	97%	~ 80%
AC drive with DC reactor	M. M. M.	100% Login Heurodo 5 7 11 13 77 19 20 25 Heurodos	96-97%	~ 35%
AC drive with multi-pulse or filter		Portugal 2012 2012 2012 2012 2012 2012 2012 201	94%	5 - 12%
AC drive with AFE		100% (Automotive) (Automotiv	94-96%	4-5%
Matrix AFE		Tatal Hammeric Disard ten Commend Set of Lin	98%	3-4%
		Harmonics		

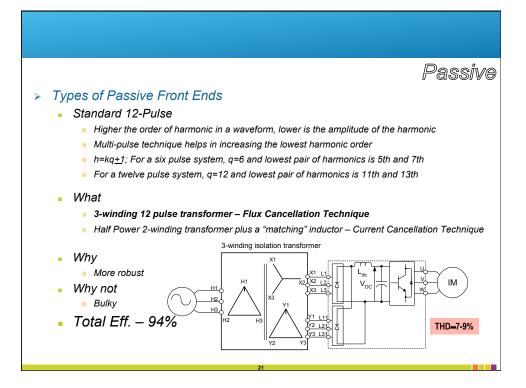


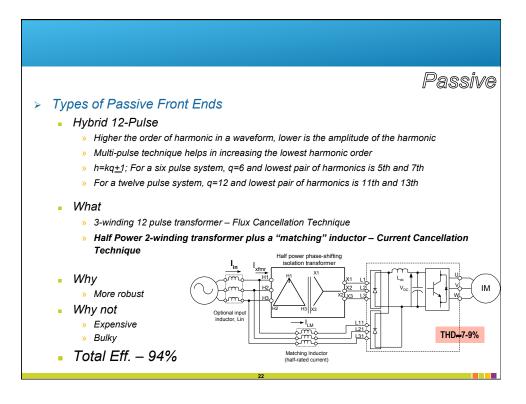


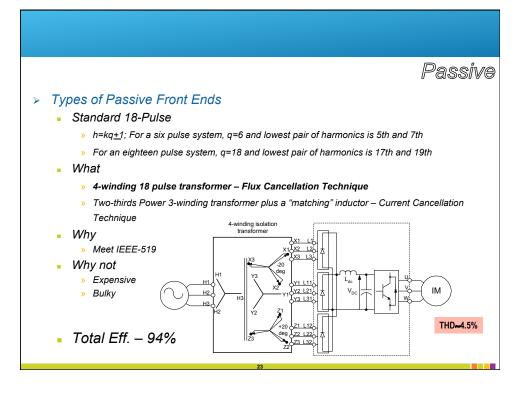


-100

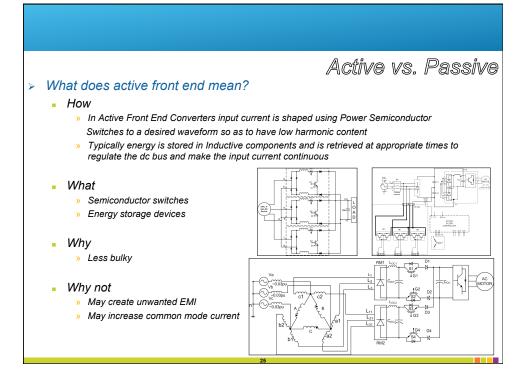


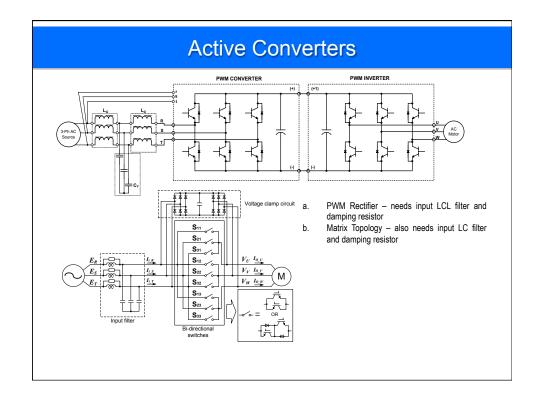


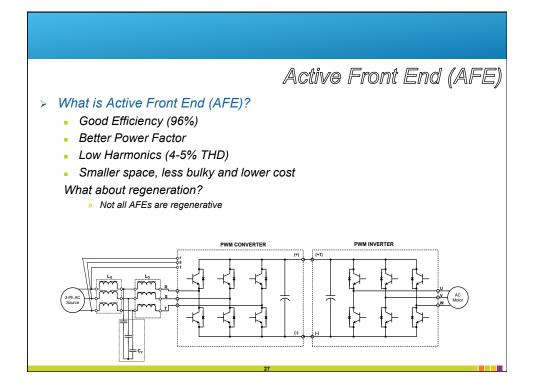


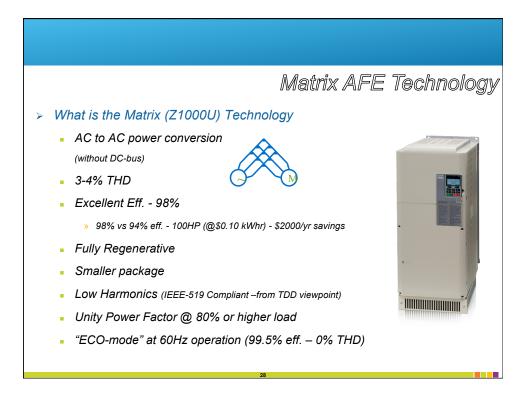




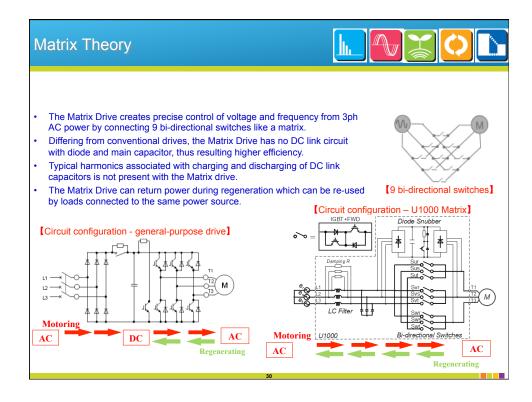












Harmonic Perform				
	Current Waveform	Current Spectrum	System Eff.	iTHD
AC drive without reactor	M W W W	орано 1 1 1 1 1 1 1 1 2 25 Натока 1 1 1 1 1 1 1 2 25 Натока 1 1 1 1 1 1 1 2 25	97%	~ 80%
AC drive with DC reactor	www.	100% 100% 100% 100% 50% 50% 50% 50% 50% 50% 50%	96-97%	~ 35%
AC drive with multi-pulse or filter	\mathcal{N}	6 for the second	94%	5 - 12%
AC drive with AFE		00%6 00%20%20%20%20%20%20%20%20%20%20%20%20%2	94-96%	4-5%
Matrix AFE		Country (1990) Country (1990) 5 7 11 10 17 19 20 25 5 8 7 11 10 17 19 20 25 5 9 7 11 10 17 19 10 10 10 10 10 10 10 10 10 10 10 10 10	98%	3-4%
		Harmonics		

