

Host Utilities



Co - Host Utilities



ORGANIZER



India SMART UTILITY Week 2024

Supporting Ministries



Session : 1ST INDIA - BRAZIL SMART ENERGY WORKSHOP

Introduction: Energy Losses in Brazil



Presented By

Cyro Vicente Boccuzzi, President - ECOee & L.A. Smart Grid Forum



ELECTRICITY DISTRIBUTION LOSSES IN BRAZIL

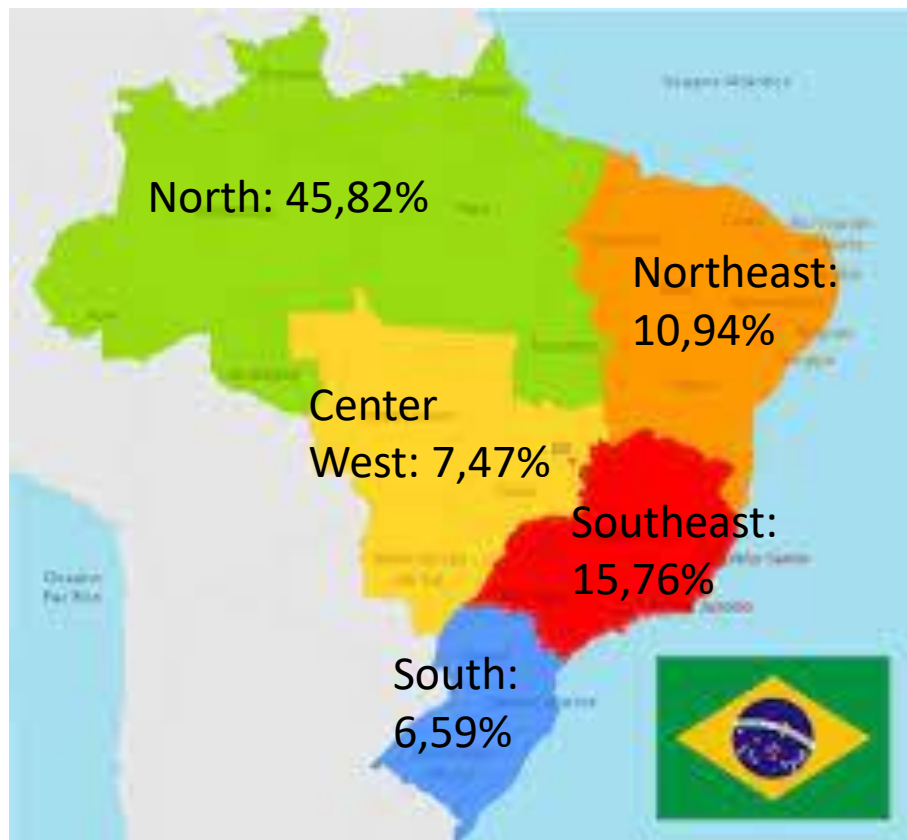


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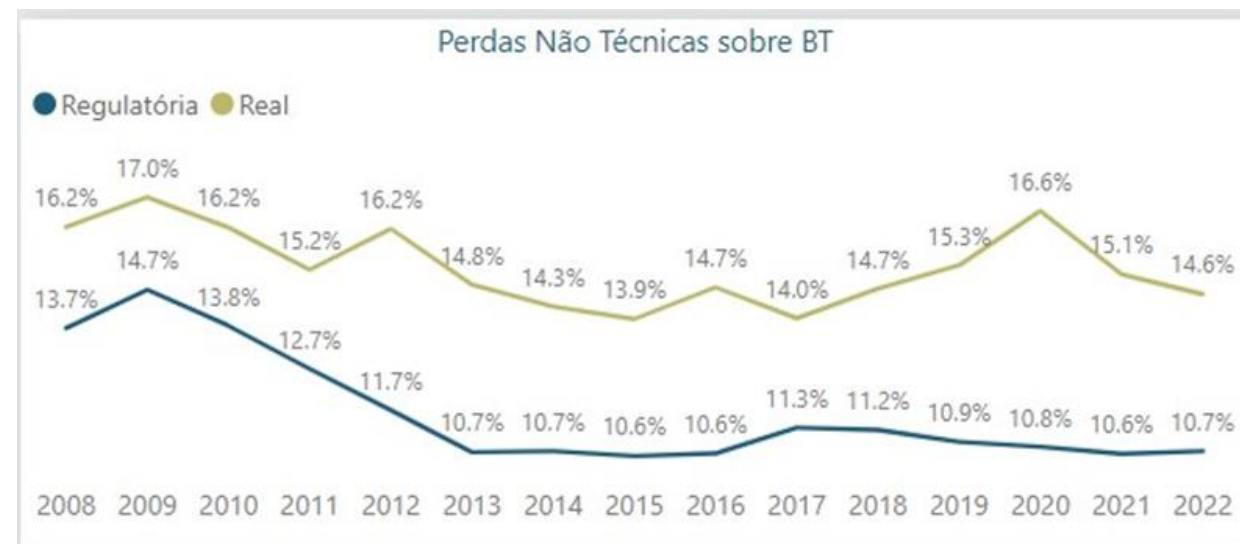
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Non Technical Losses over Market
In diferent Regions of the country



Regulatory acceptable limits have been progressively reduced along time to provide incentives for Utilities to implement more effective loss reduction programs



But even so the **problem is closely and definitively tied with economic and social condition** and costs of living affordability of the citizens: there are also **difficulties with political interference and government absence on organized crime controlled low-income areas.**

Source: Aneel

ELECTRICITY DISTRIBUTION LOSSES BY UTILITY

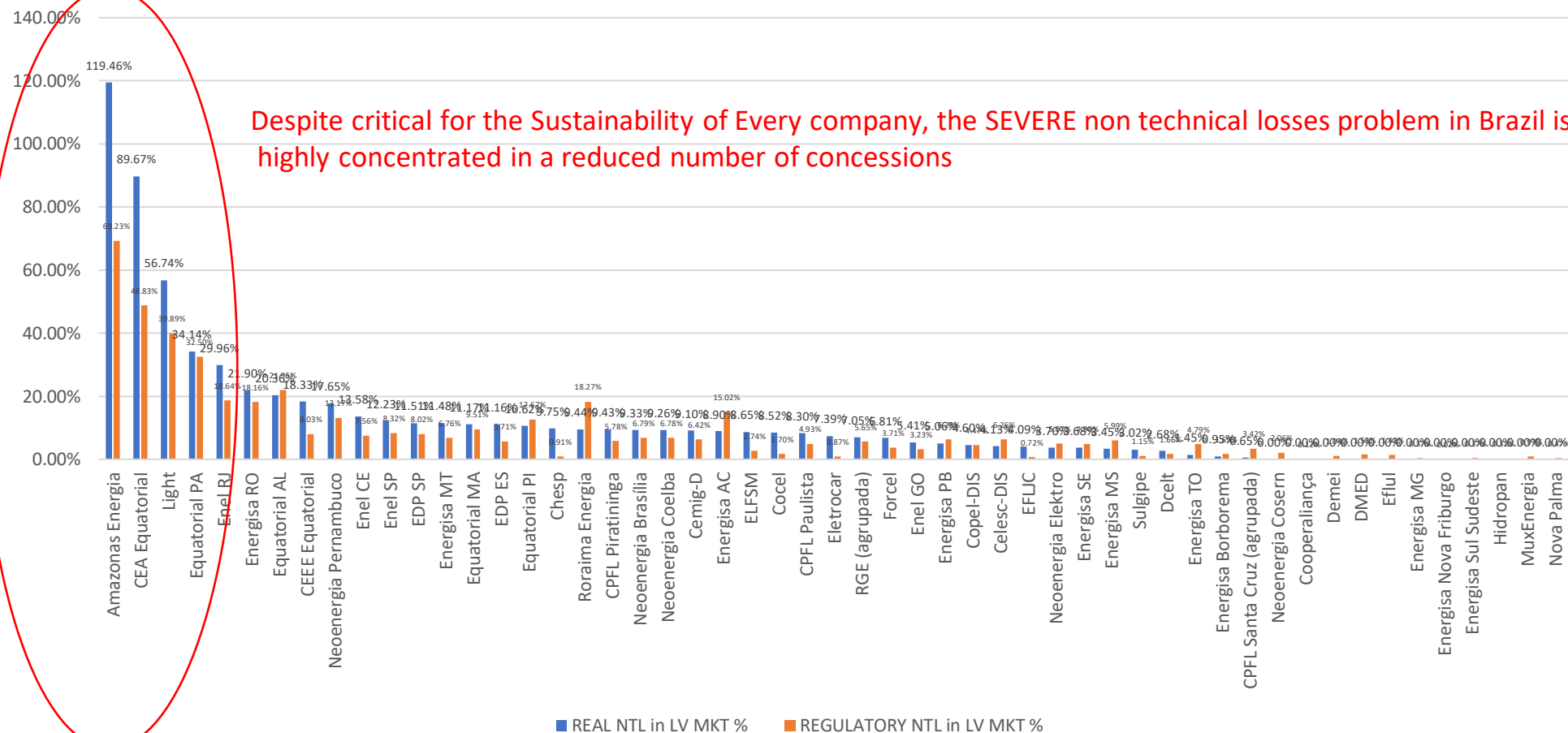


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Non Technical Losses compared with Low Voltage Market for all Brazilian Utilities in 2022



Source: Aneel

ELECTRICITY DISTRIBUTION LOSSES BY UTILITY



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Utility	REAL NTL in LV MKT %	REGULATORY NTL in LV MKT %
Amazonas Energia	119,46%	69,23%
CEA Equatorial	89,67%	48,83%
Light	56,74%	39,89%
Equatorial PA	34,14%	32,50%
Enel RJ	29,96%	18,64%
Energisa RO	21,90%	18,16%
Equatorial AL	20,36%	21,95%
CEEE Equatorial	18,33%	8,03%
Neoenergia Pernambuco	17,65%	13,17%
Enel CE	13,58%	7,56%
Enel SP	12,23%	8,32%
EDP SP	11,51%	8,02%
Energisa MT	11,48%	6,76%
Equatorial MA	11,17%	9,51%
EDP ES	11,16%	5,71%
Equatorial PI	10,62%	12,67%
Chesp	9,75%	0,91%
Roraima Energia	9,44%	18,27%
CPFL Piratininga	9,43%	5,78%
Neoenergia Brasília	9,33%	6,79%
Neoenergia Coelba	9,26%	6,78%
Cemig-D	9,10%	6,42%
Energisa AC	8,90%	15,02%
ELFSM	8,65%	2,74%
Cocel	8,52%	1,70%
CPFL Paulista	8,30%	4,93%
Eletrocar	7,39%	0,87%

Utility	REAL NTL in LV MKT %	REGULATORY NTL in LV MKT %
RGE (agrupada)	7,05%	5,65%
Forcel	6,81%	3,71%
Enel GO	5,41%	3,23%
Energisa PB	5,06%	6,28%
Copel-DIS	4,60%	4,47%
Celesc-DIS	4,13%	6,26%
EFLJC	4,09%	0,72%
Neoenergia Elektro	3,70%	5,07%
Energisa SE	3,68%	4,90%
Energisa MS	3,45%	5,99%
Sulgipe	3,02%	1,15%
Dcelt	2,68%	1,66%
Energisa TO	1,45%	4,79%
Energisa Borborema	0,95%	1,69%
CPFL Santa Cruz (agrupada)	0,65%	3,42%
Neoenergia Cosern	0,00%	2,06%
Cooperaliança	0,00%	0,12%
Demei	0,00%	1,04%
DMED	0,00%	1,53%
Eflul	0,00%	1,42%
Energisa MG	0,00%	0,37%
Energisa Nova Friburgo	0,00%	0,02%
Energisa Sul Sudeste	0,00%	0,37%
Hidropan	0,00%	0,31%
MuxEnergia	0,00%	0,97%
Nova Palma	0,00%	0,47%

Source: Aneel

Historical Losses Recovery Data of Selected Utilities

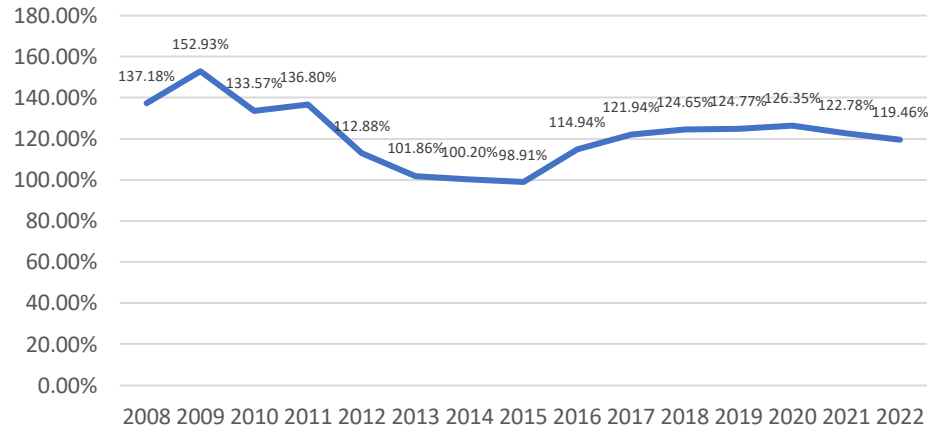


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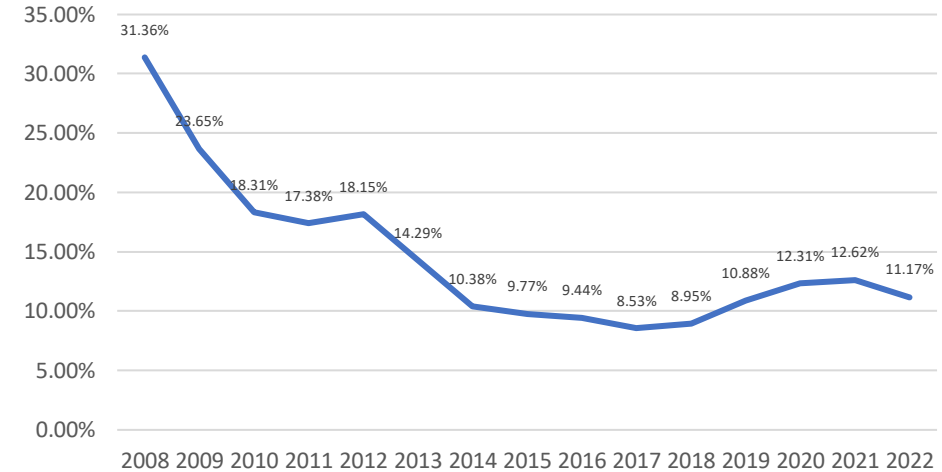
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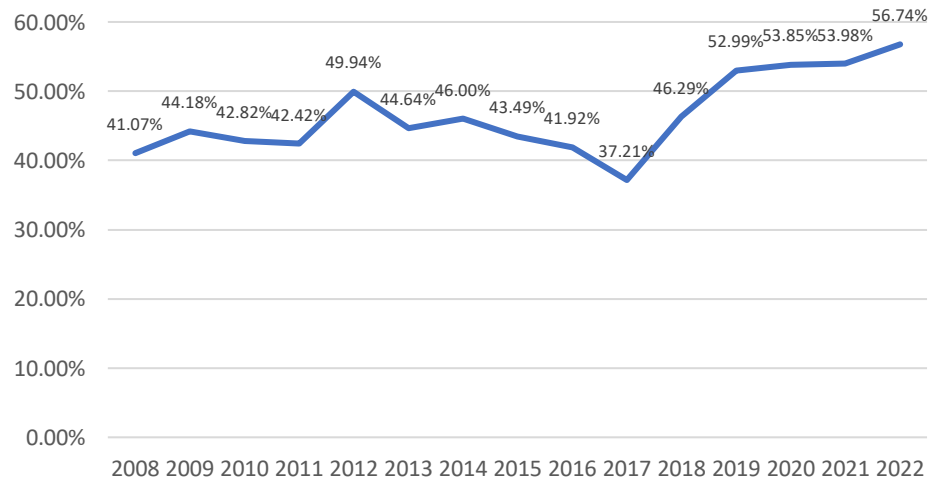
AMAZONAS ENERGIA - REAL LOSSES OVER LV MKT



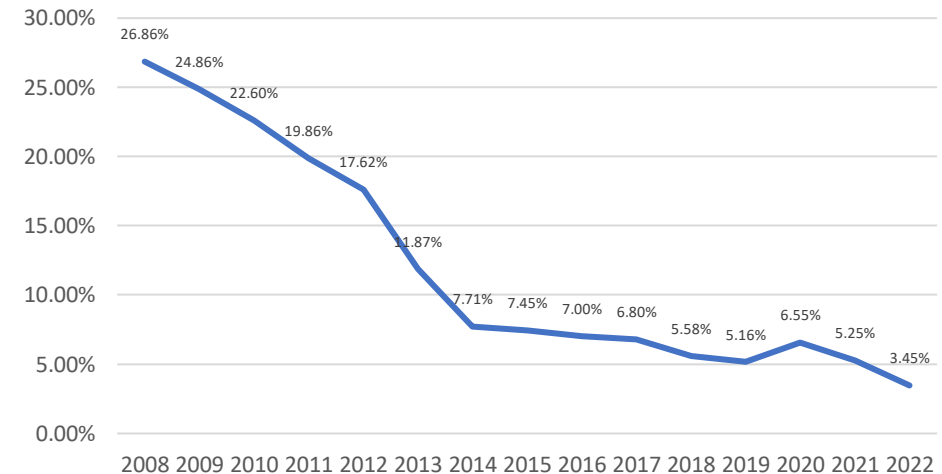
EQUATORIAL MA- REAL LOSSES OVER LV MKT



LIGHT- REAL LOSSES OVER LV MKT



ENERGISA MS - REAL LOSSES OVER LV MKT



Source: Aneel

THANK YOU

*For discussions/suggestions/queries email: isuw@isuw.in
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