



MODERN WIND-MILL DRIVE WITH FULL-POWER CONVERTER

November 18, 2011.



“WHEN THE WINDS OF CHANGE BLOW,
SOME PEOPLE BUILD WALLS AND
OTHERS BUILD WINDMILLS.”

Old Chinese proverb

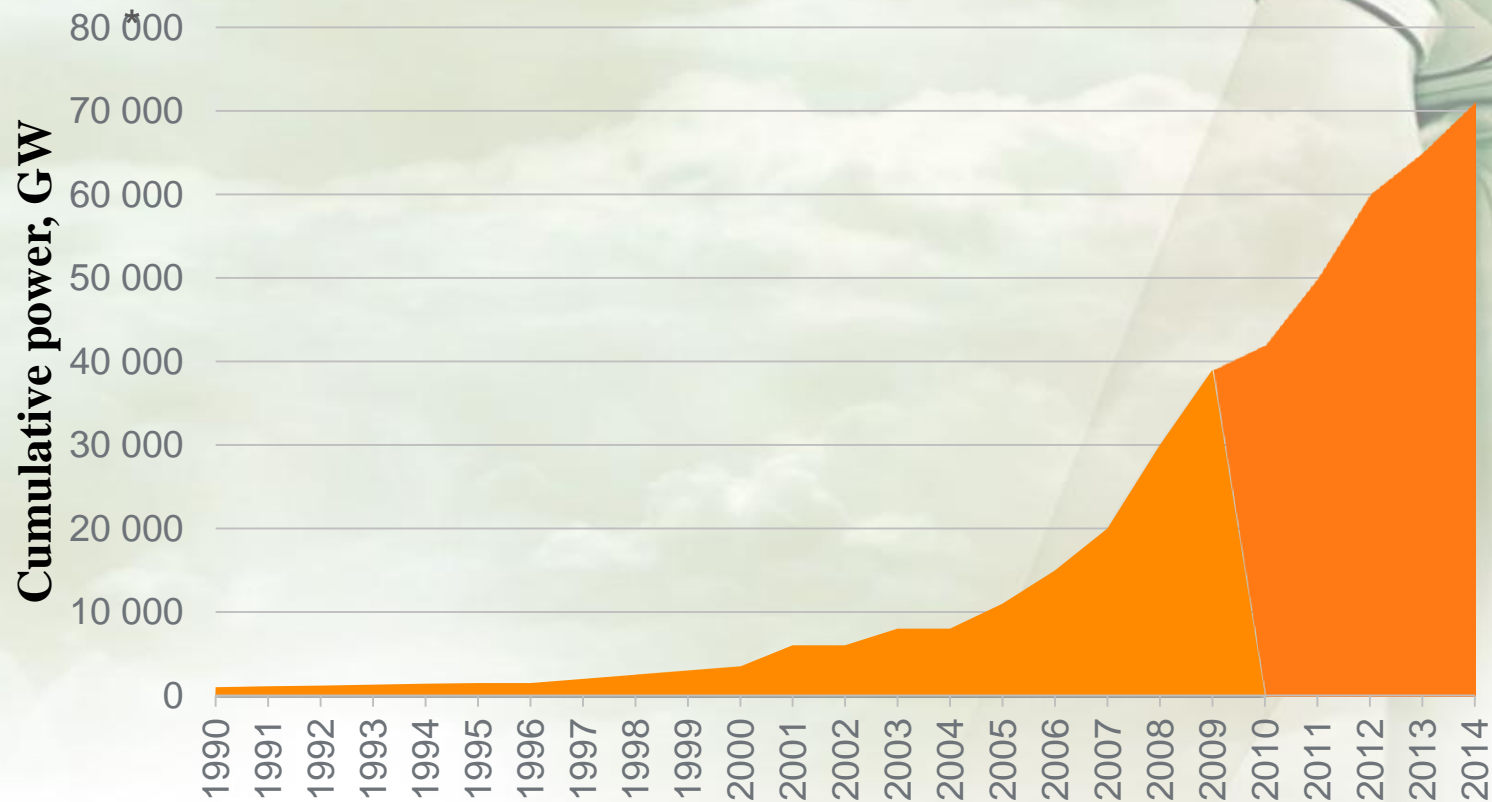


THE SWITCH



WIND POWER

+5 to 10 GW yearly



* New installations in MW

THE SWITCH

THE SWITCH DRIVE™

The soul of every reliable wind turbine



PERMANENT MAGNET
GENERATOR

FULL-POWER
CONVERTER



THE SWITCH

PORTFOLIO NOW



REFERENCES



ScanWind, Norway
3.7 MW DD package



Goldwind, China
1.5 MW and 2.5 MW FPC



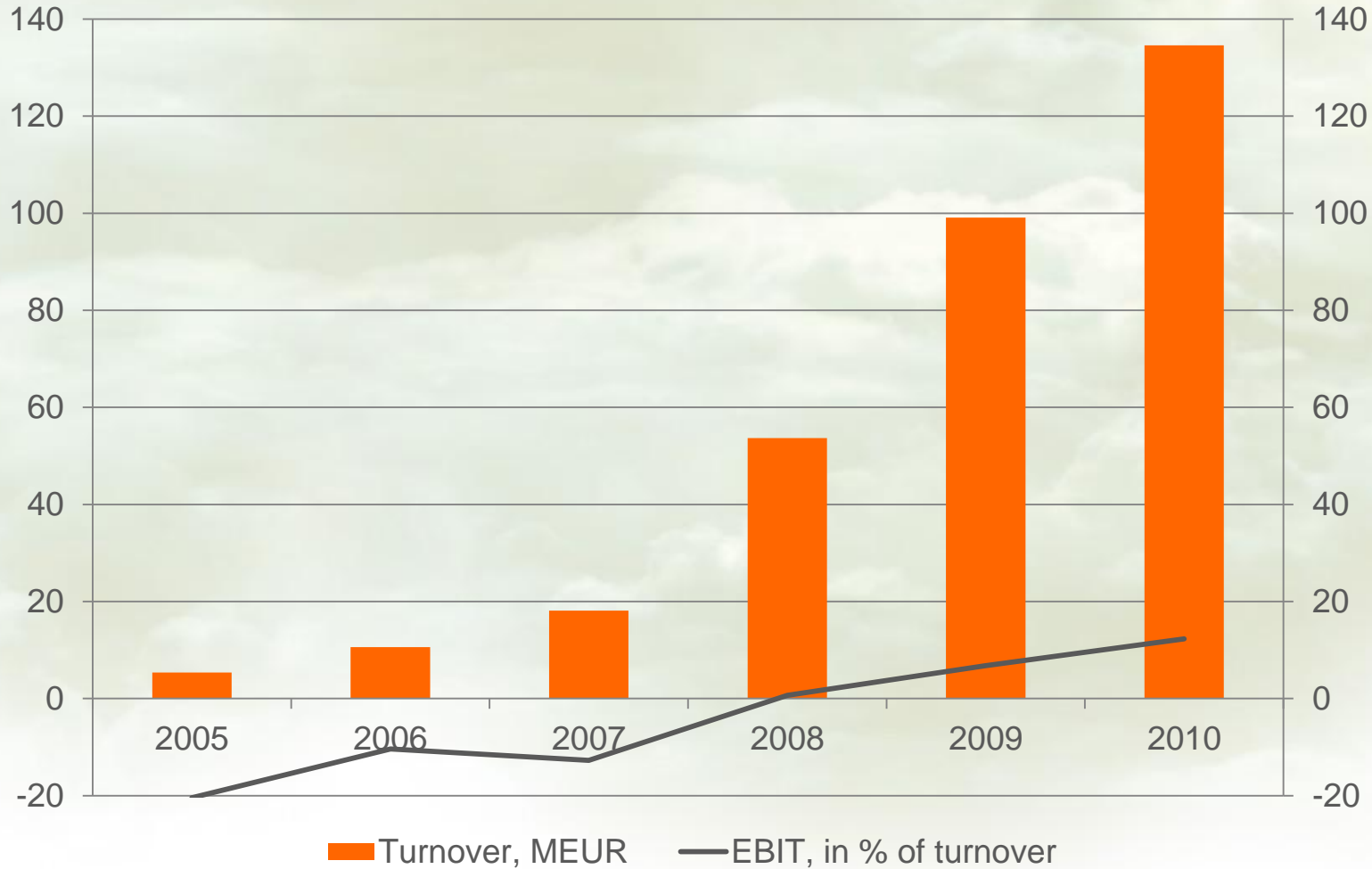
Solar Systems, Australia
140 kW inverter



THE SWITCH

Bringing you power

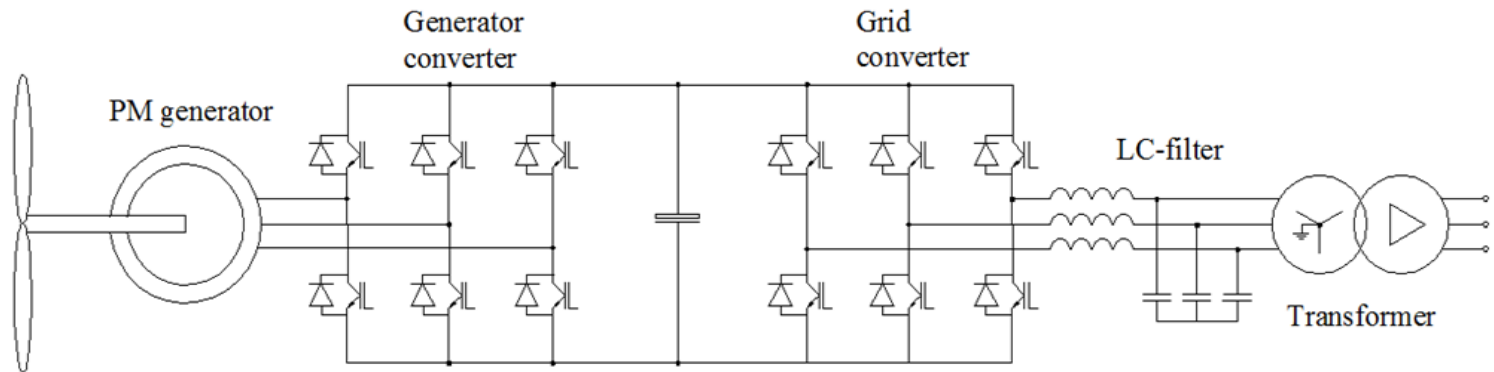
GROWTH IN TURNOVER



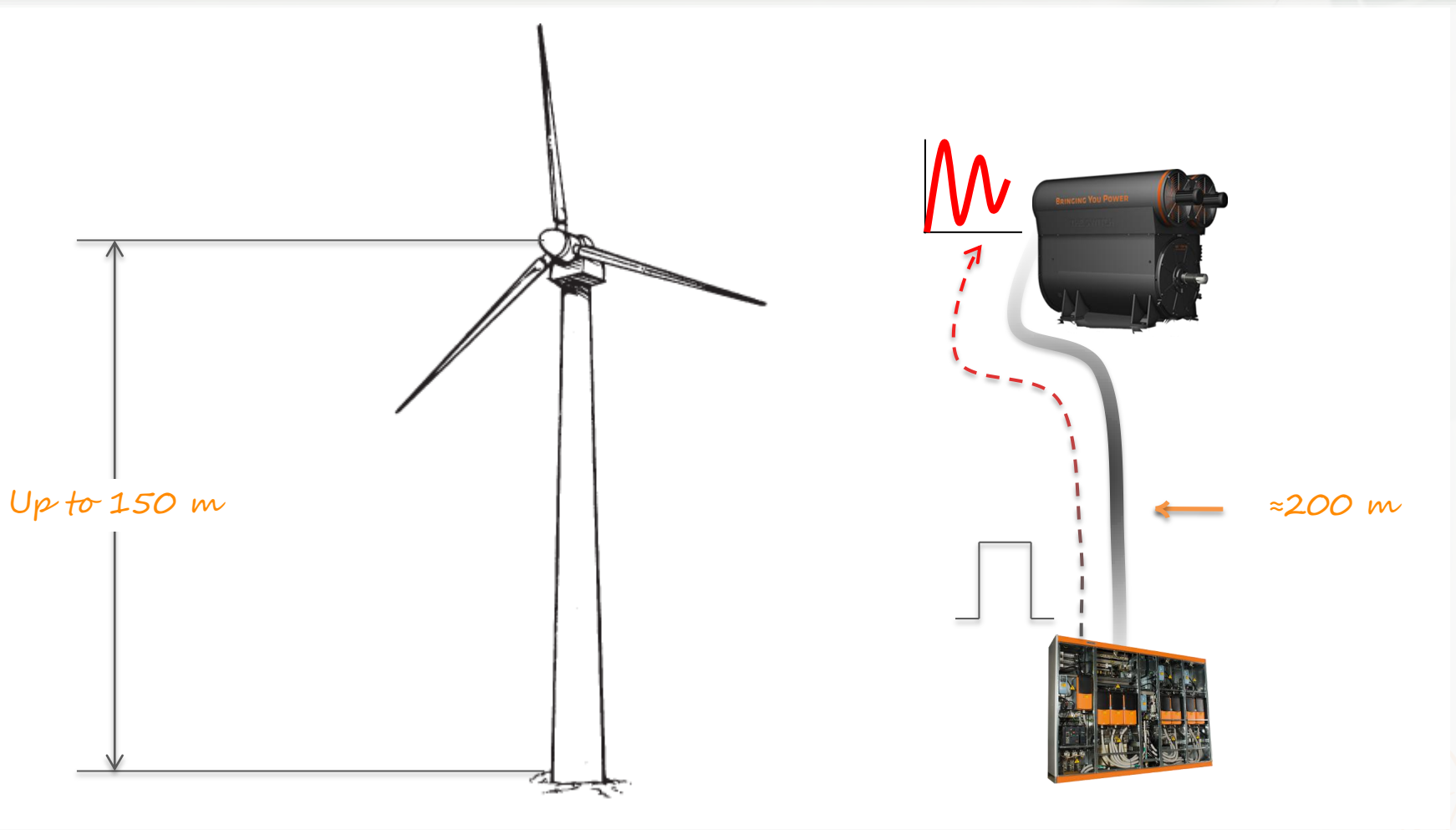
Due to a change of accounting policy from Finnish Accounting Standards (FAS) to International Financial Reporting Standards (IFRS), figures for 2010 and 2009 are not comparable with previous years.



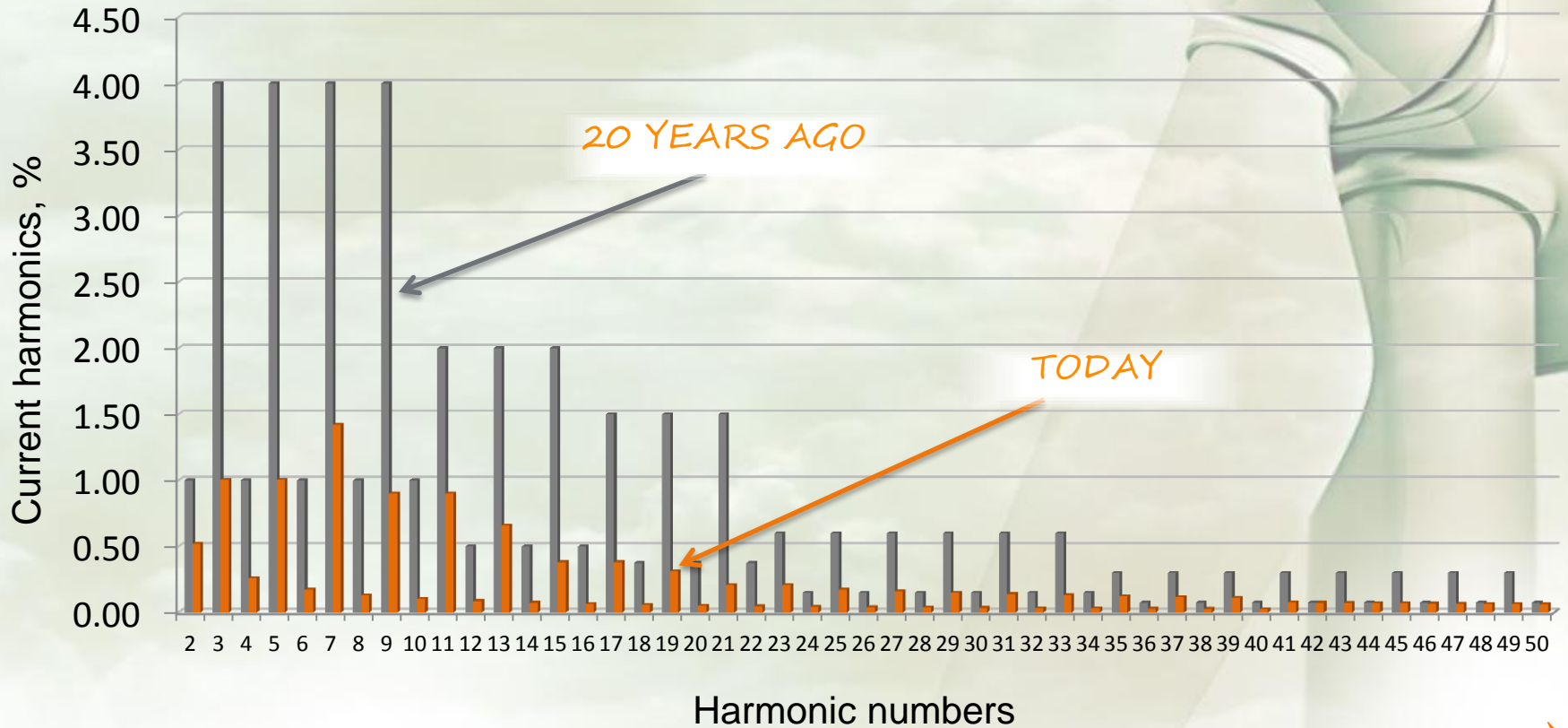
TECHNOLOGY



GENERATOR SIDE



GRID SIDE



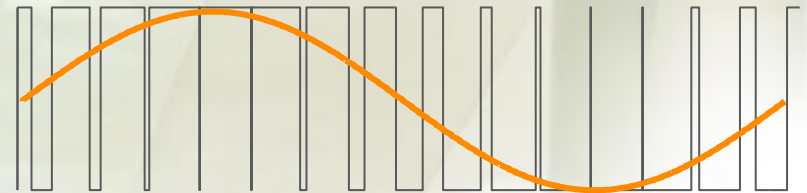
FILTRATION

FILTERS

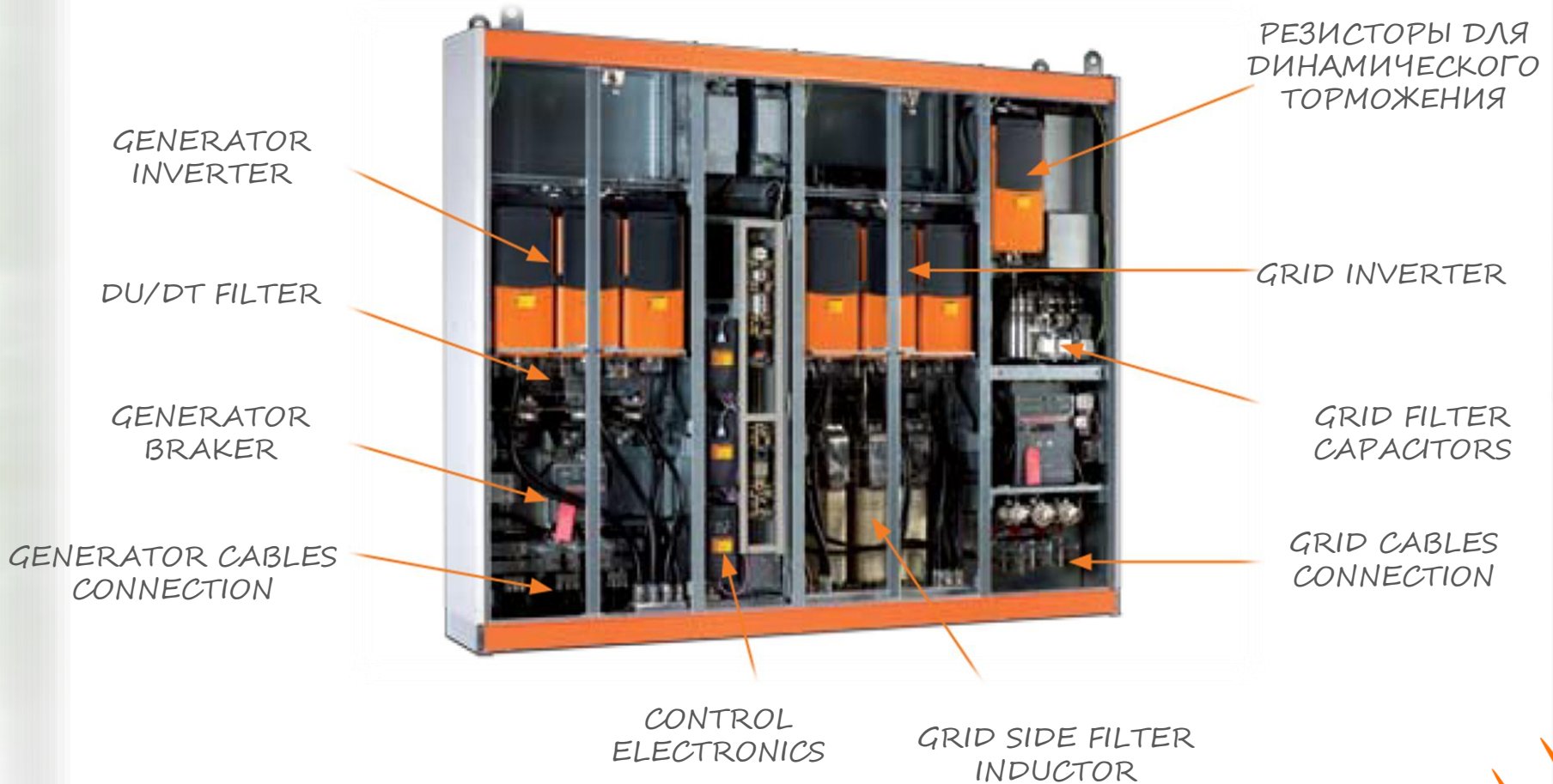
GENERATOR
(du/dt)



GRID
(sinusoidal)



THE SWITCH CONVERTER



THE SWITCH

THANKS FOR ATTENTION!

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