

CONFERENCE
16TH EDITION
EXHIBITION



INTERNATIONAL OPERATIONS & MAINTENANCE CONFERENCE
IN THE ARAB COUNTRIES

UNDER THE THEME

"MANAGING MAINTENANCE WITHIN INDUSTRY 4.0"

CONICIDE WITH THE 16TH ARAB MAINTENANCE EXHIBITION

**Grid Stabilization solutions
Grow existing electrical grids
under increasingly complex
conditions.**

Eng. Daniel Pfammatter



4.0





Company introduction

The challenge – grid stability

Opportunities of the digitalization

Our concept

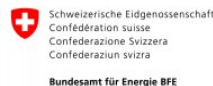
Company presentation

EasyEnergy : engineer and consultant. Innovative.

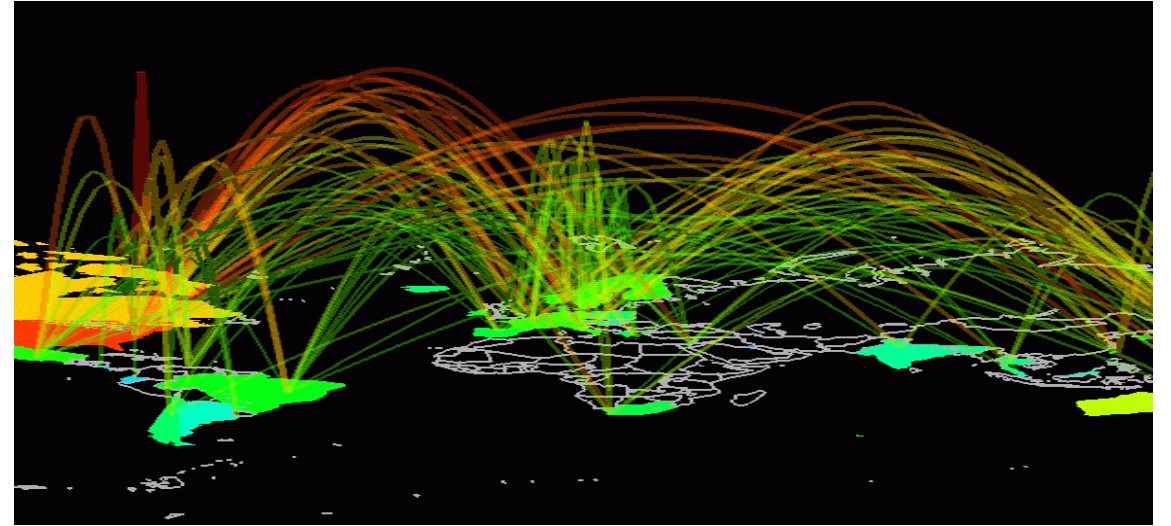
We understand complex challenges



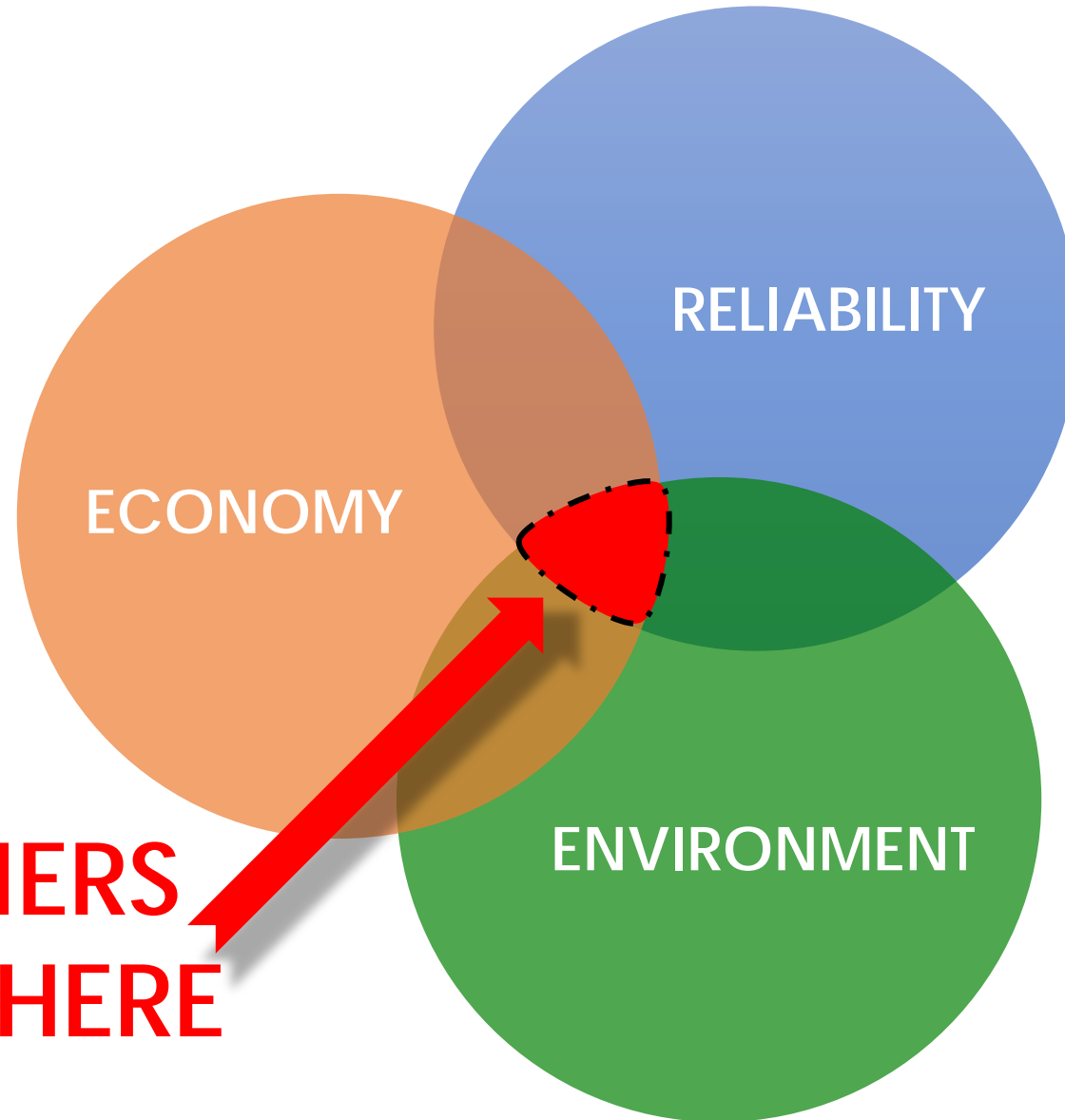
Solar Turbines
A Caterpillar Company



The challenge

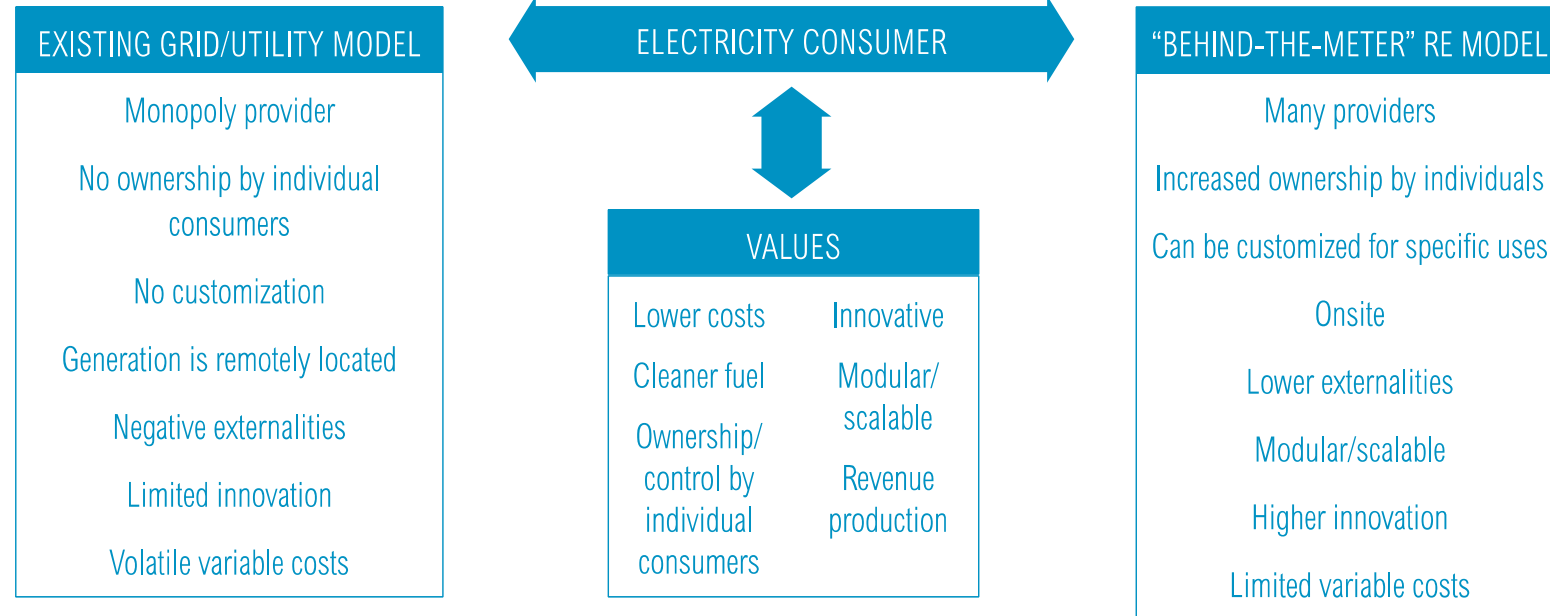


The challenge



**WINNERS
STAY HERE**

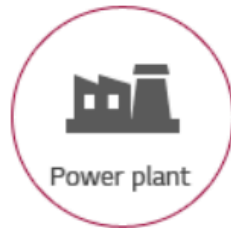
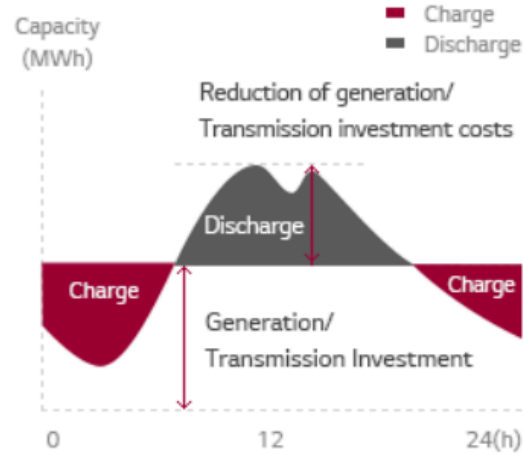
The challenge – grid stability



The challenge – grid stability



Peak Shifting



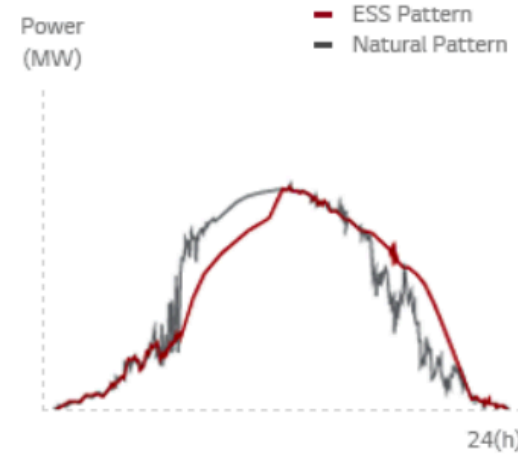
Power plant



Industrial facility

- Charge during off-peak times
- Discharge during peak times

Discharge During Peak Times



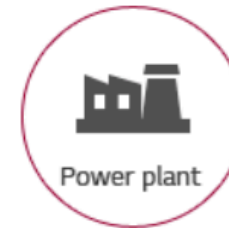
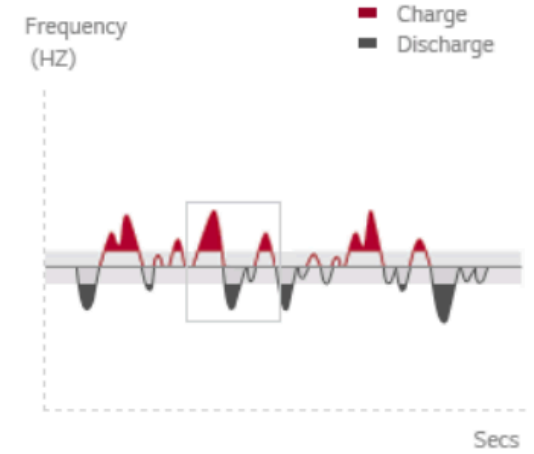
Solar farm



Wind farm

- Stabilization of intermittent renewable power through charging and discharging during periods of high production or high energy demand

Frequency Regulation



Power plant



Substation

- Charge when grid frequency increases
- Discharge when grid frequency decreases

Our concept

- CONSIDER ENERGY AS MONEY
- CONSIDER CO₂ AS MONEY
- CONSIDER RELIABILITY AS MONEY



MINIMIZE ENERGY LOSSES



STORE ENERGY



COMBINE SOURCES,
CARRIERS and USERS



MAXIMIZE EFFICIENCY



MINIMIZE USE OF
PRIMARY

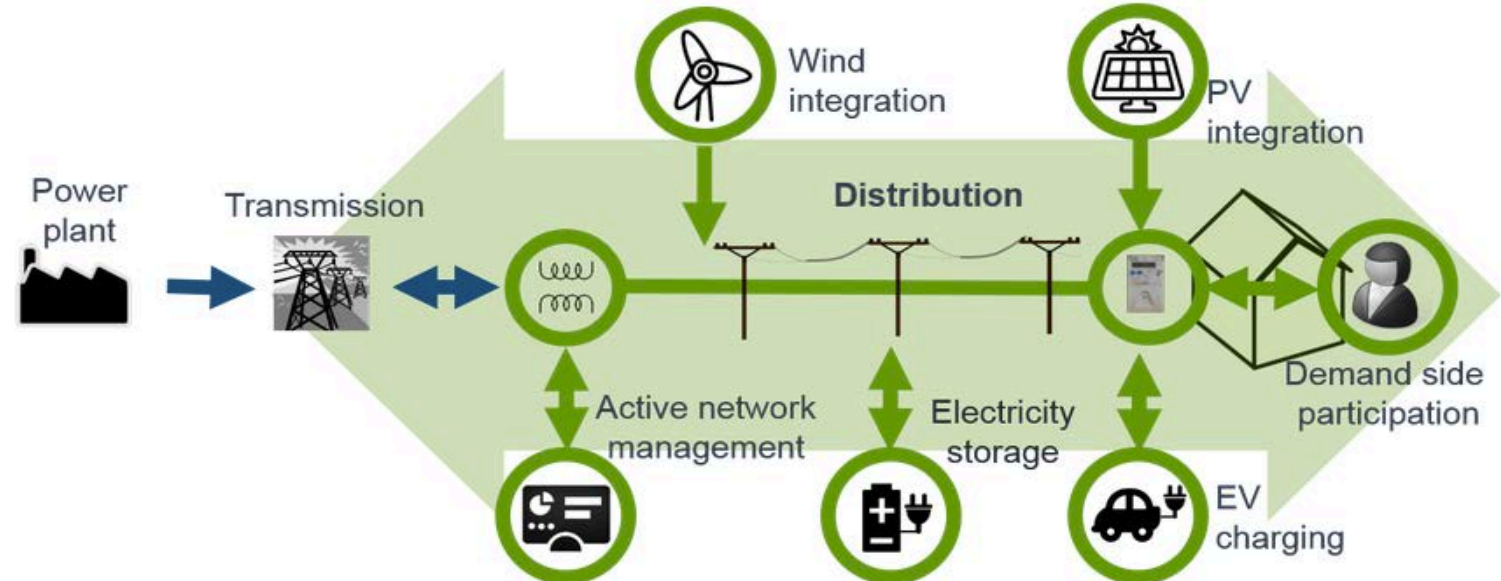
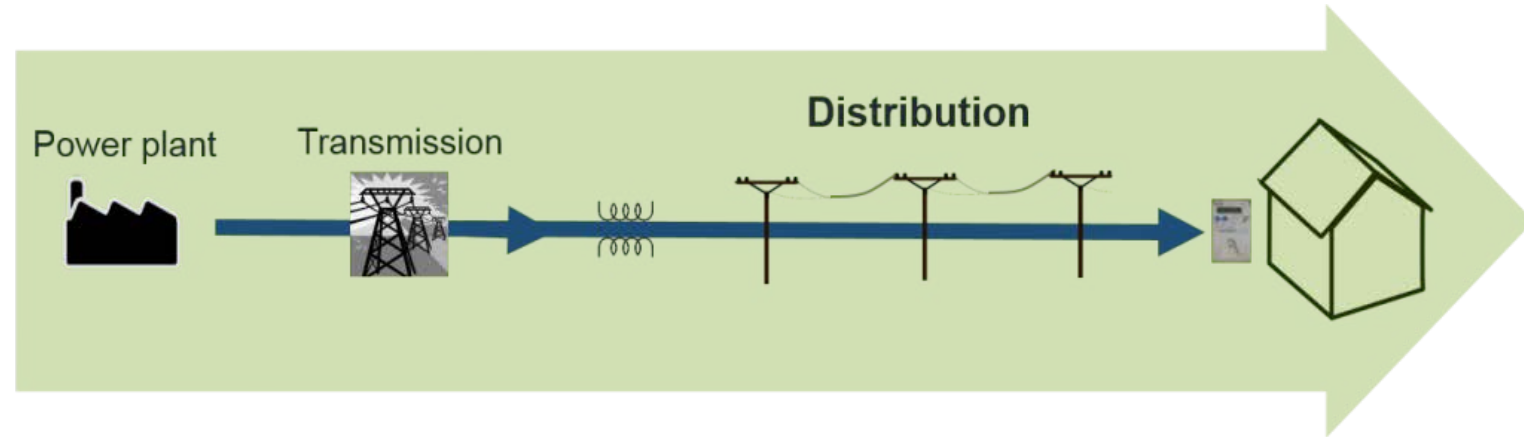
ENERGY SOURCE

CONTROL COMPLEXITY

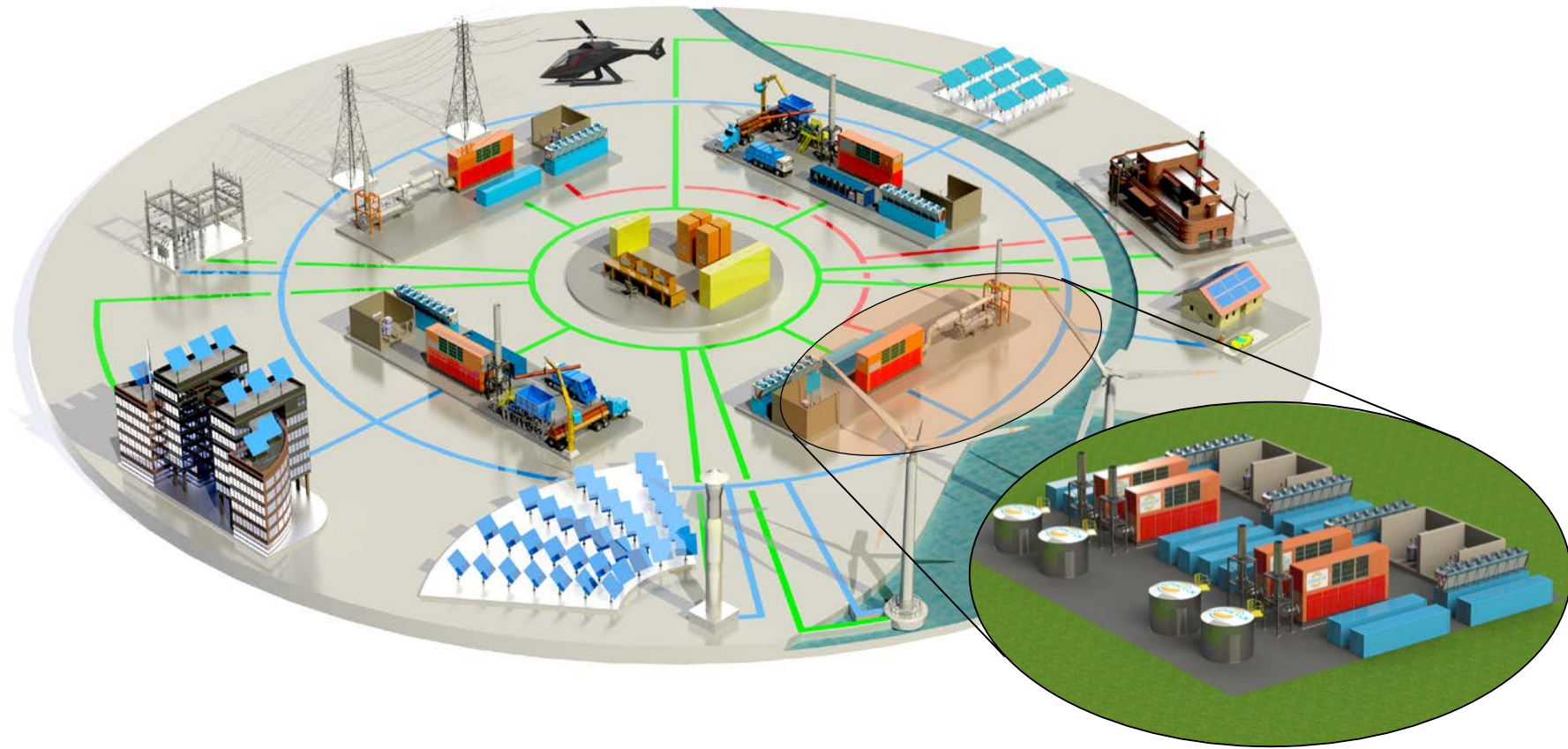
DESIGN OF ADVANCED, INTEGRATED SOLUTIONS

40

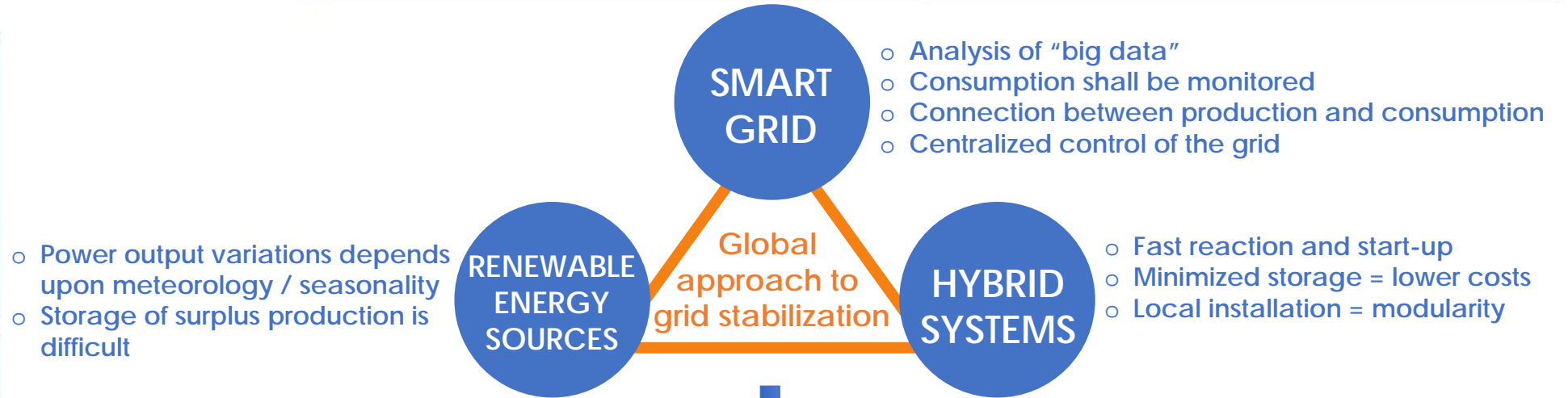
Opportunities of the digitalization



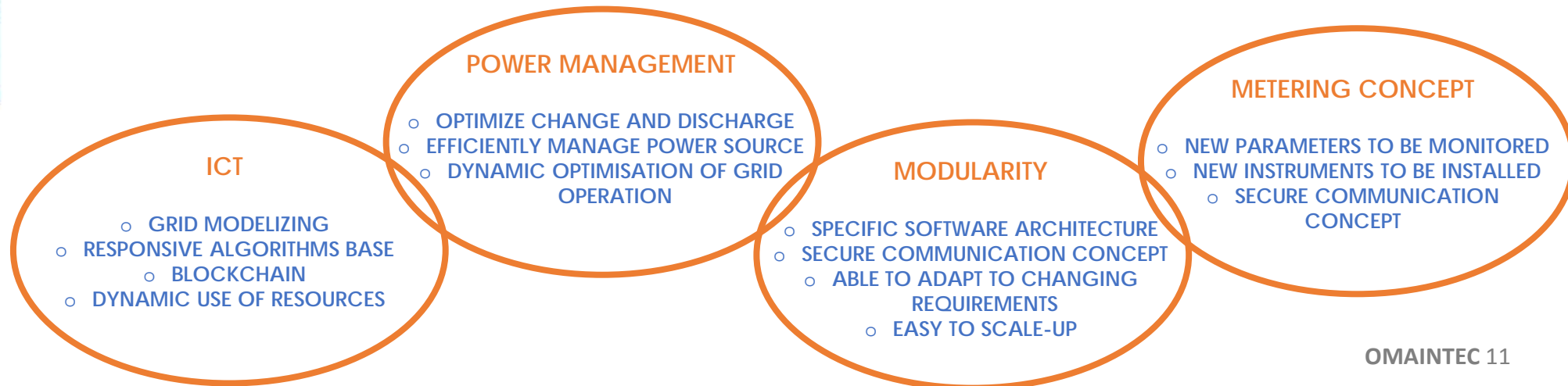
Our concept



Our concept



NEW TOOLS SHALL BE DEVELOPED TO INTEGRATE THE CONTROLS





- *Change mindset: consumers will be part of the production.*
- *Understand production, grid and cyber as one common entity.*
- *Master complexity : mechanical, electrical, controls, cyber, social.*



Consultants will be key to solve customer's future energy challenges!

... and how can we support you?

THANK YOU
FOR YOUR ATTENTION!

VISIT: WWW.EECC.SWISS