



In need of a robust European energy system – a vision from the EU and Ukraine

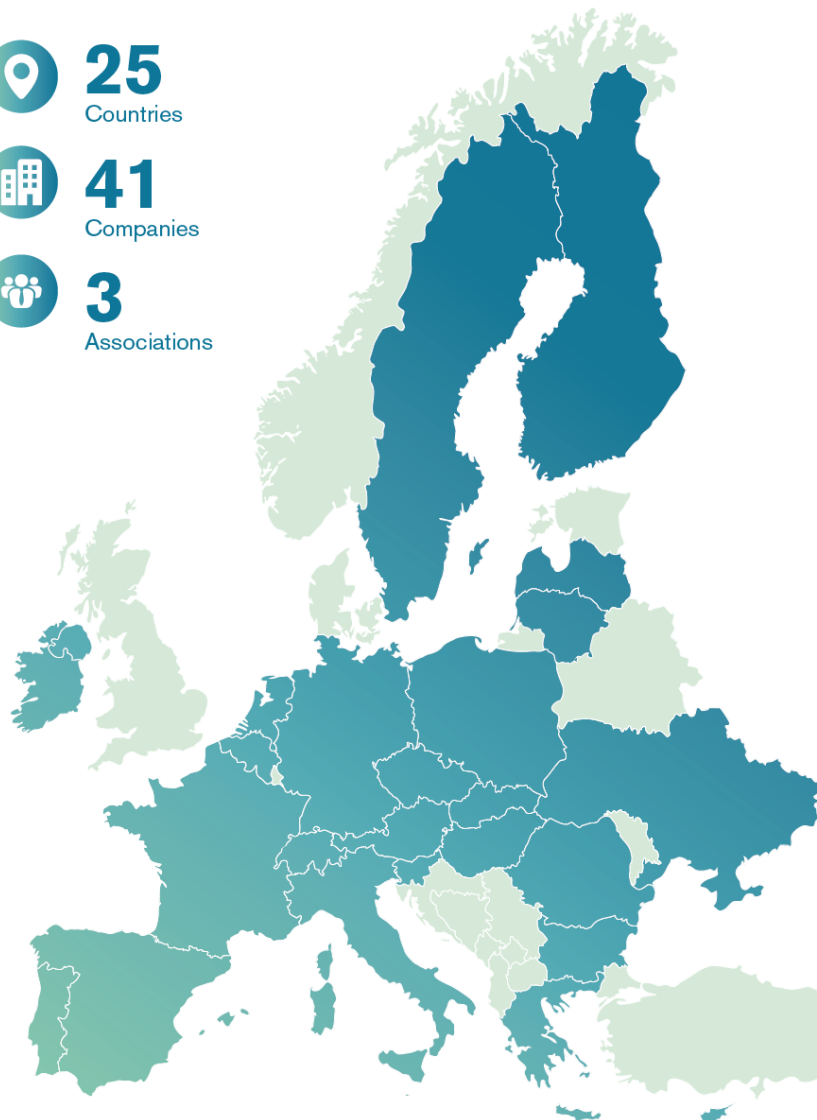
Roberto Zangrandi, Secretary General, E.DSO
EEF Dinner Debate, 25 September 2019

E.DSO facts

 **25**
Countries

 **41**
Companies

 **3**
Associations



AT	Energienetze Steiermark Netz Niederösterreich
BE	Fluvius ORES
CH	Services Industriels de Genève
CY	Electricity Authority of Cyprus
CZ	ČEZ Distribuce PREdistribuce
DE	E.ON EWE Netz Netze BW innogy Rheinische NETZ Gesellschaft Stromnetz Hamburg
ES	Hidrocantábrico Distribución Eléctrica Endesa Distribución Eléctrica i-DE Unión Fenosa Distribución Viesgo Distribución Eléctrica
FI	Caruna
FR	ENEDIS
GR	HEDNO
IE	ESB Networks
IT	areti e-distribuzione Utilitalia
LT	AB "Energijos skirstymo operatorius"
LV	Sadales tīkls
NL	Alliander Enexis Netbeheer Nederland STEDIN
PL	Enea Operator Energa Operator PGE Dystrybucja
PT	EDP Distribuição
RO	e-distributie Banat e-distributie Dobrogea e-distributie Muntenia
SI	SODO
SE	Vattenfall
UA	DTEK GRIDS DSO(E)
UK	NIE Networks



Founded in 2010



9 full-time staff in E.DSO Secretariat



Participation in 10 EU-funded research projects



Participation in all EU expert groups in Smart Grids
(SGTF, ETIP SNET, TSO/DSO Platform)

Meet our members



Our members connect:

- >350 million customers

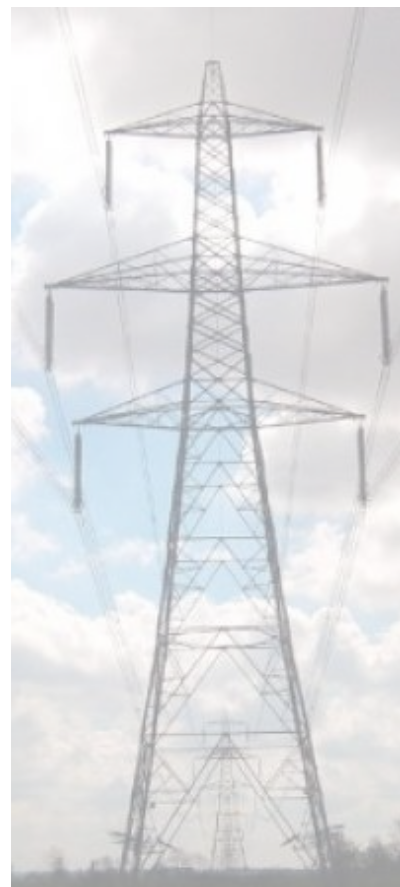
And operate:

- 7 million km of electricity lines

E.DSO represents distribution power companies



Generation



Transmission



Distribution



Supply

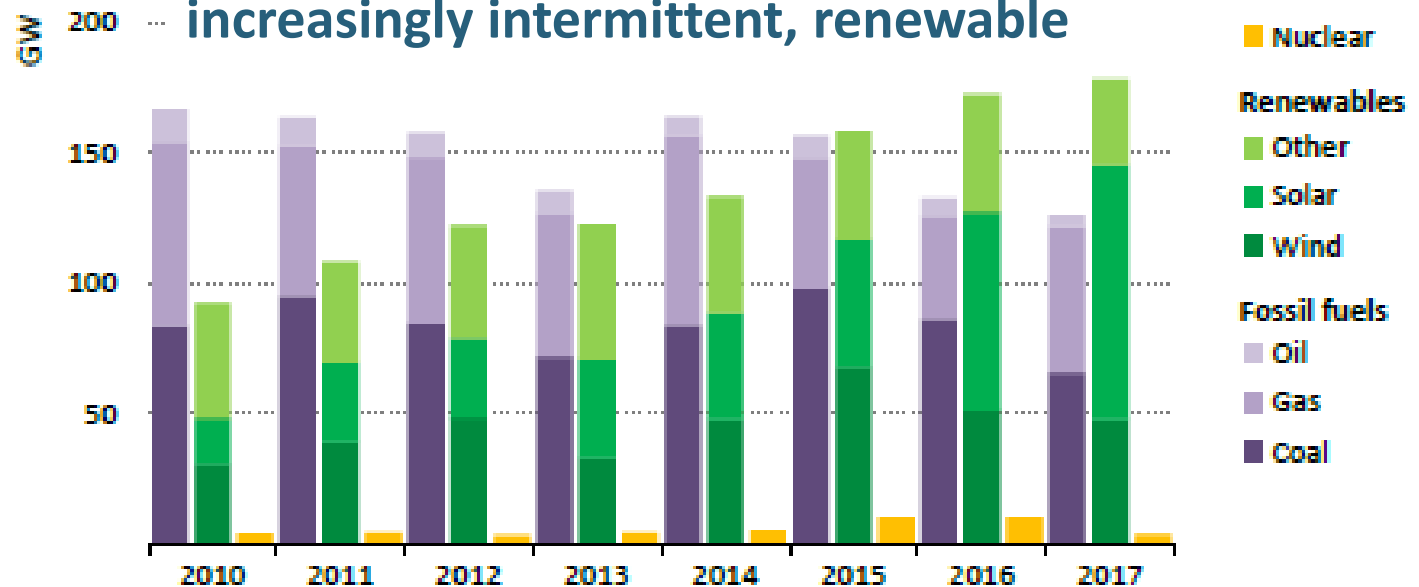
E.DSO is the only **100% DSO, 100% electricity** association at EU level

Making the energy space climate resilient requires change

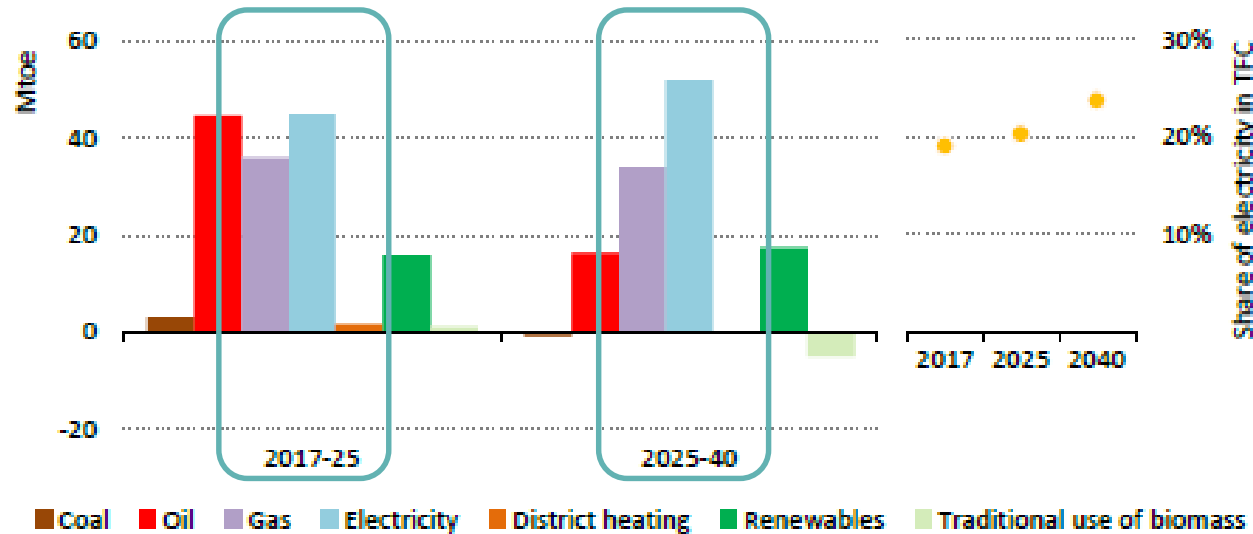
Europe's ambition to lead the energy transition

- 17.5% RES in 2017 consumption
- 32% goal for 2030
- Upwards revision 2023?

Added electricity generation capacity is increasingly intermittent, renewable

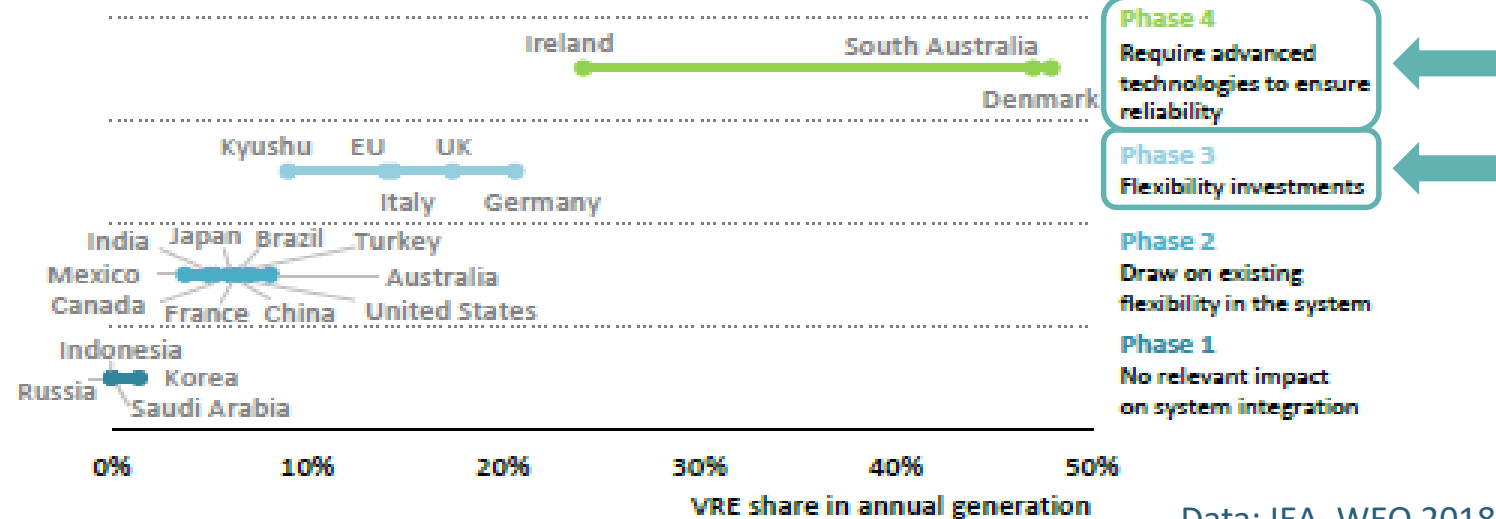


Electrification requires complexity management

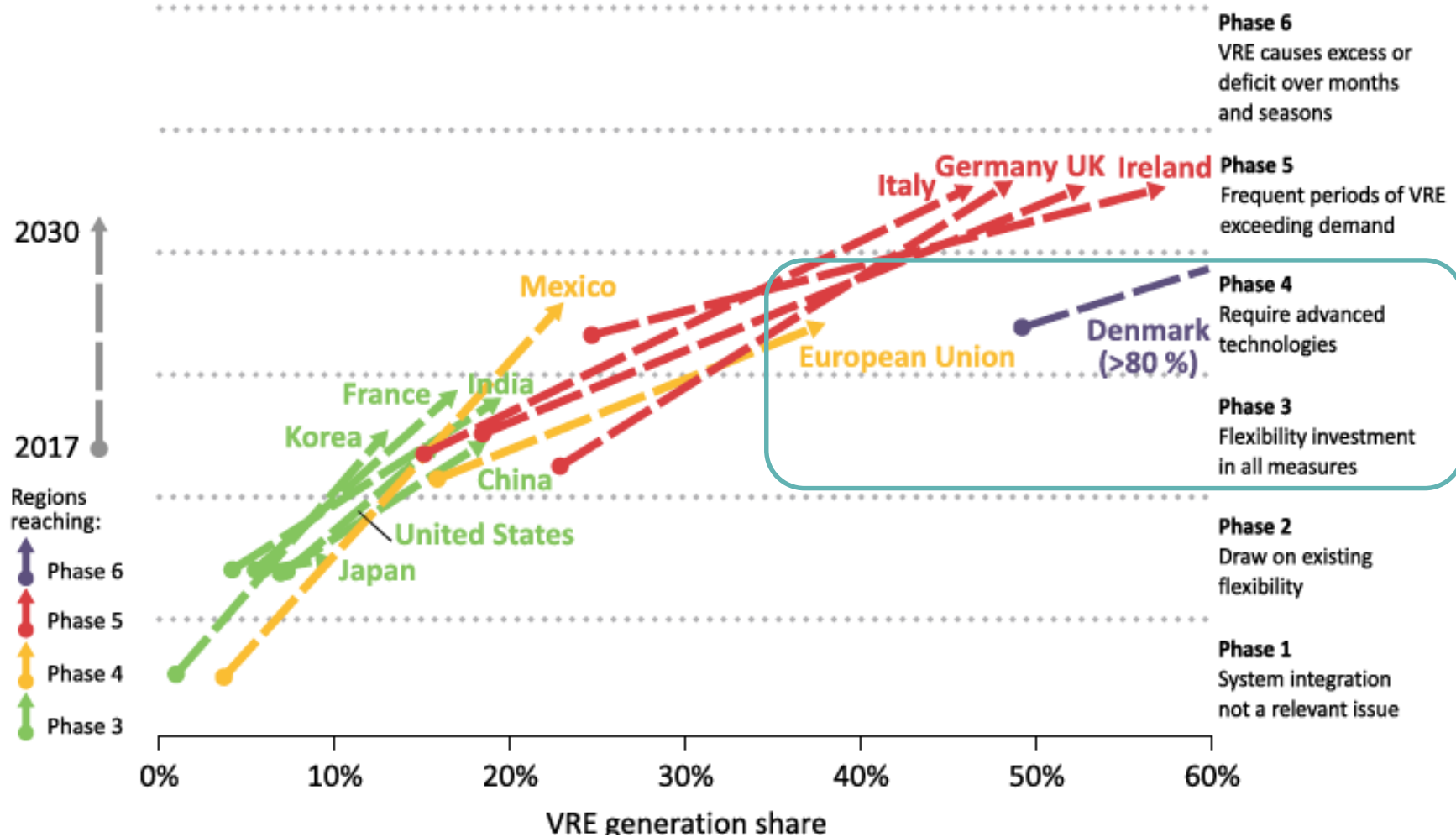


Annual electricity consumption growth is outperforming other carriers, expanding its share of final energy use

More complex systems require innovation and adaptive regulation



...to cope with increasing flexibility...



...mandating active management (smart, digital)...

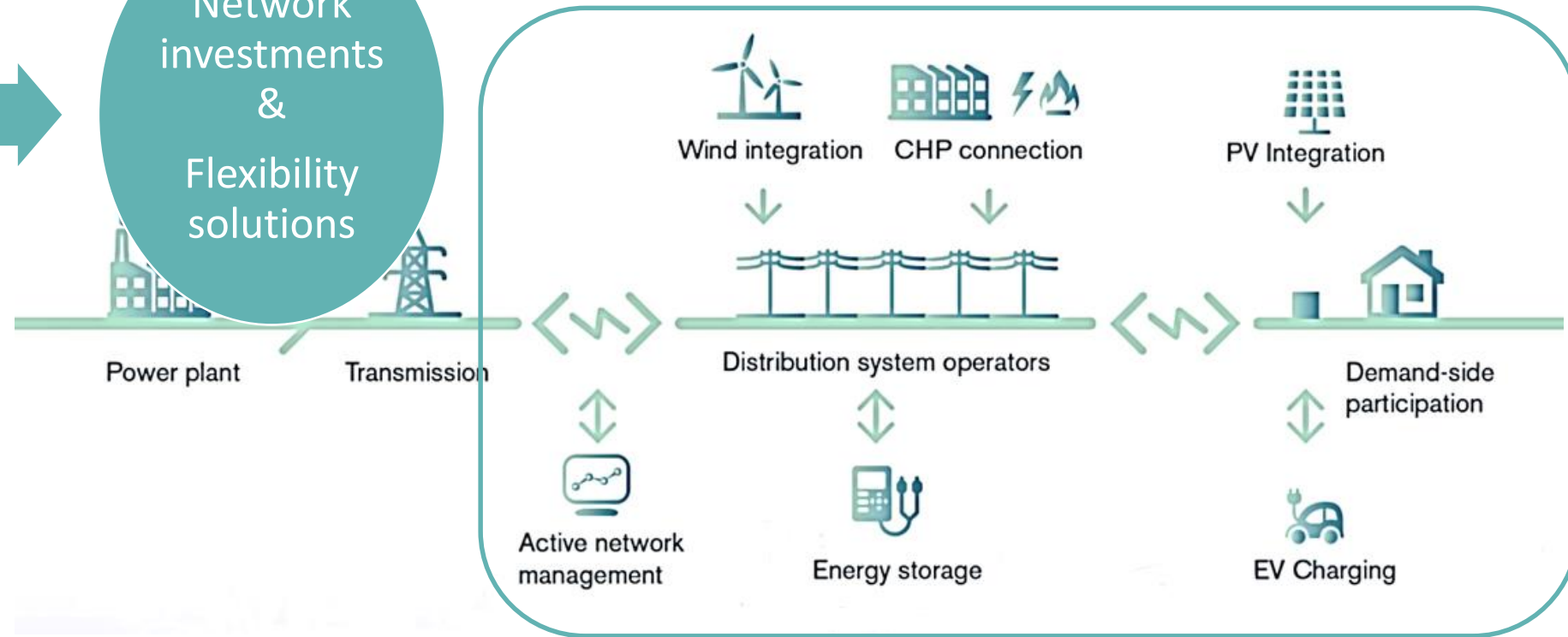
Intermittent generation



Additional loads

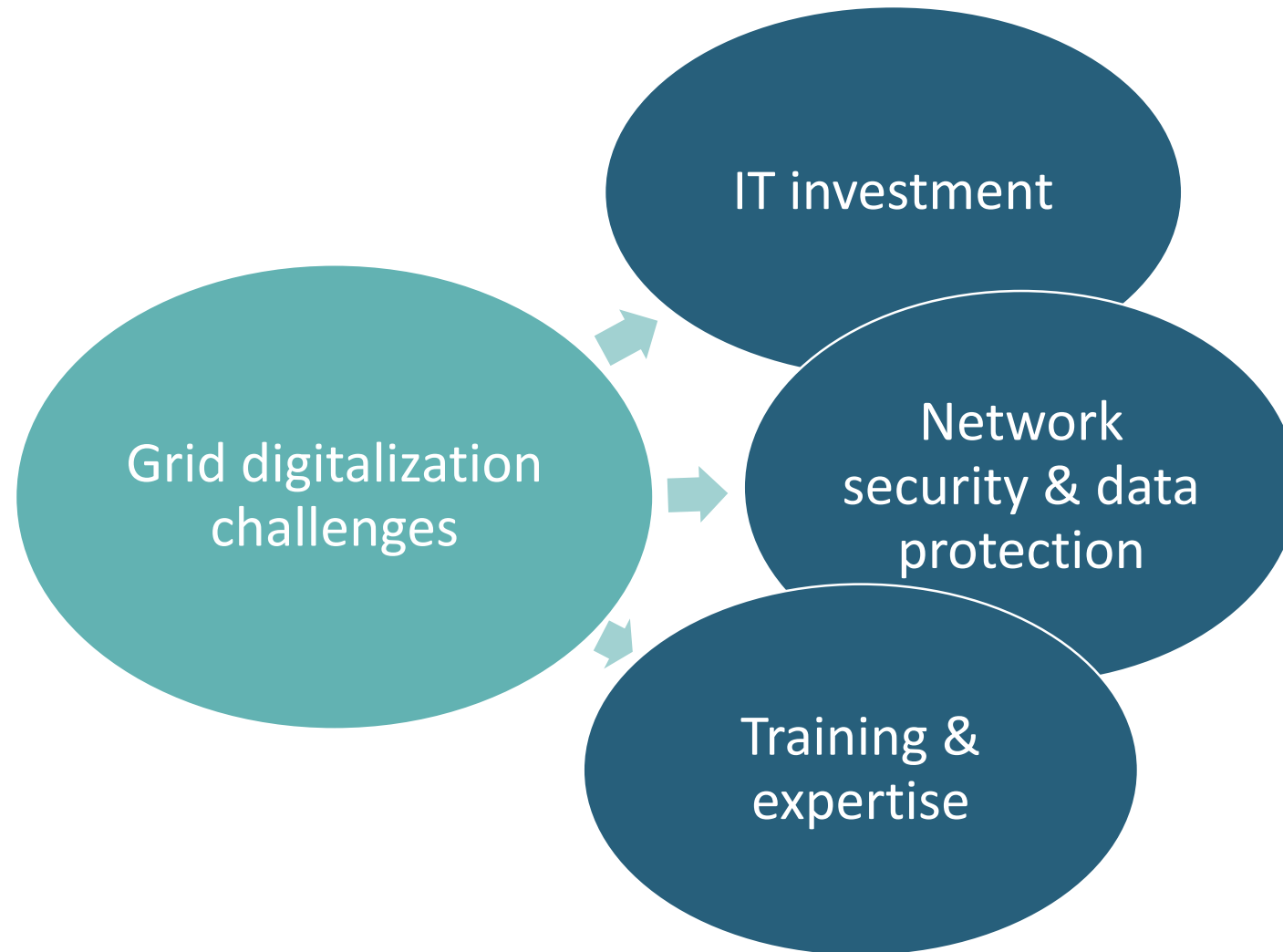


Network investments & Flexibility solutions

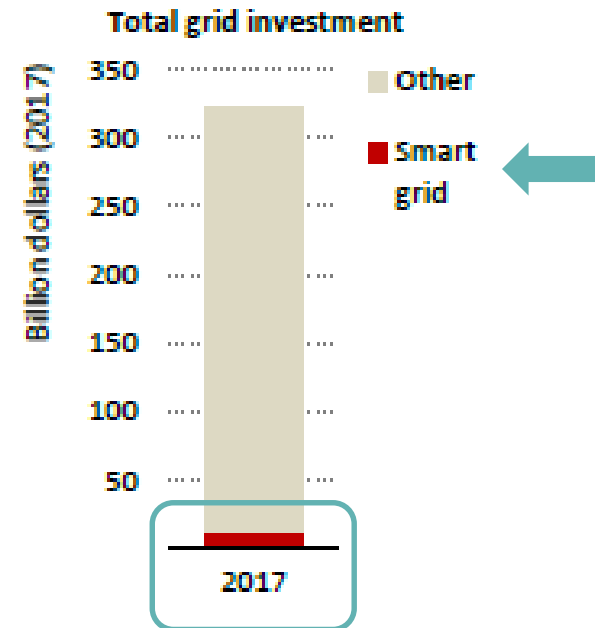
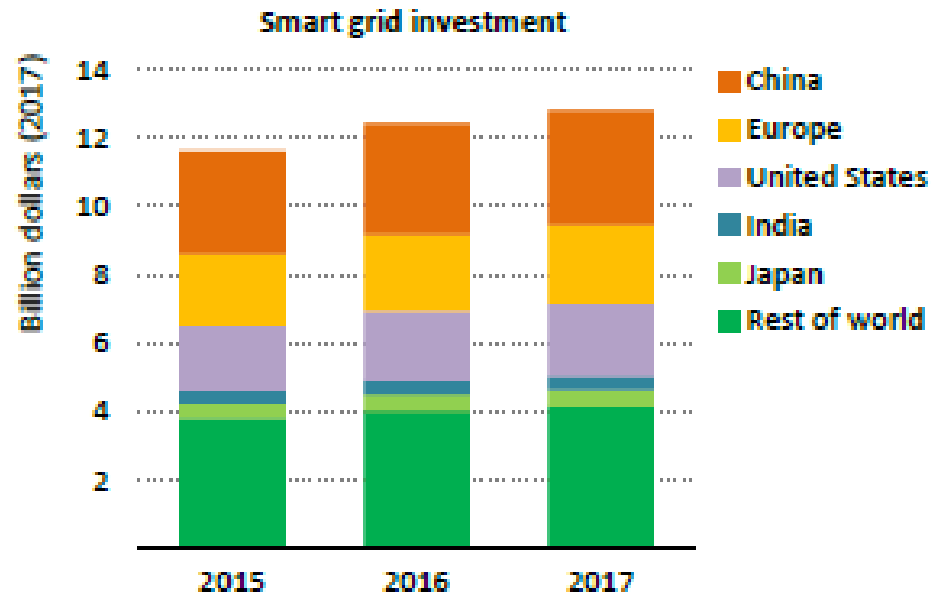




...which carries new challenges...



... which requires smart financing



... and thus enabling, adaptive regulation...

...which is equally important for Ukraine as for EU.



Thank you very much for your attention!

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