

Forretningsmuligheter og markeder

Atle Midttun

Energiseminaret 24-5-2016

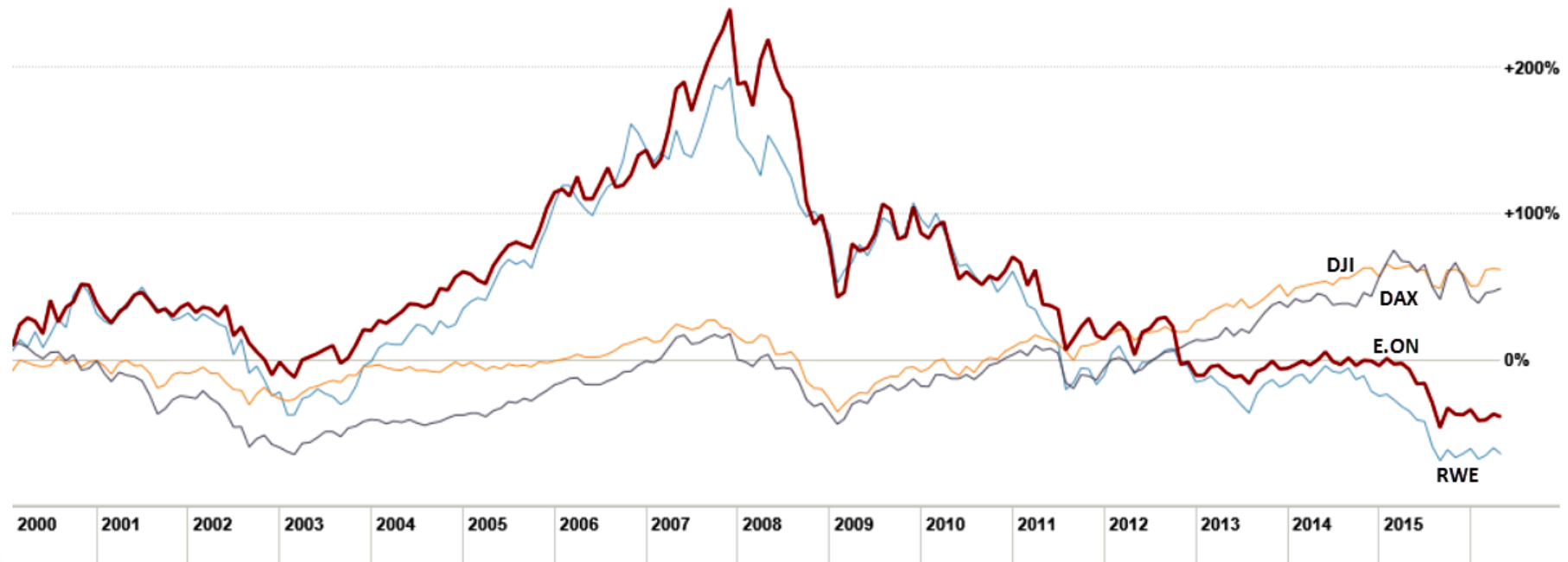
E.ON og RWE Benchmark mot DAX and DJI 2000 - 2015

FINANCIAL TIMES

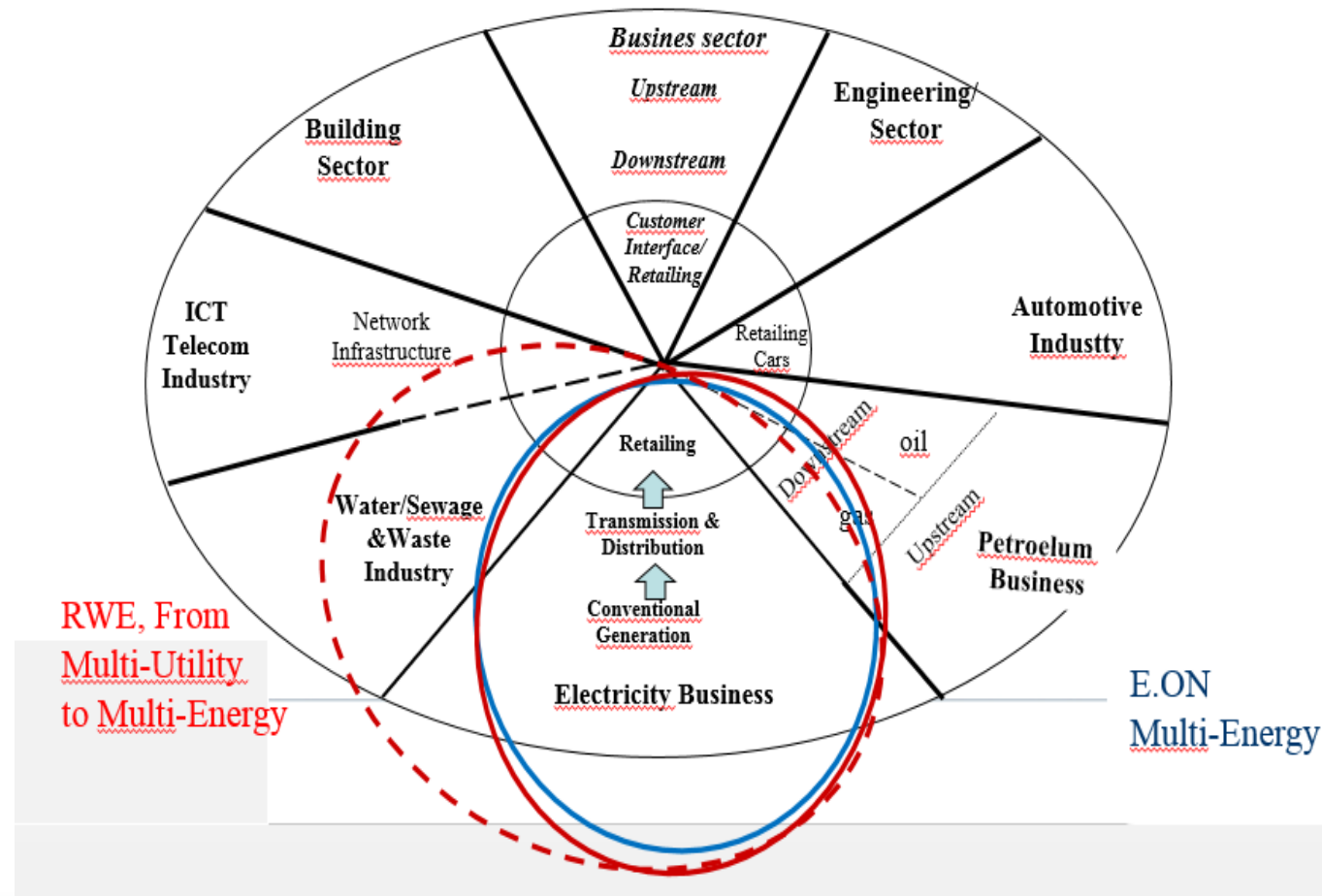
E.ON SE EOAX.N:GER

01/03/2000 - 05/25/2016: Monthly data interval

RWE AG Dow Jones Industrial Average GERMAN SE XETRA DAX INDEX



Konsolidering av multienergi og multiinfrastruktur modeller



EDP Renovaveis og Enel Green Power

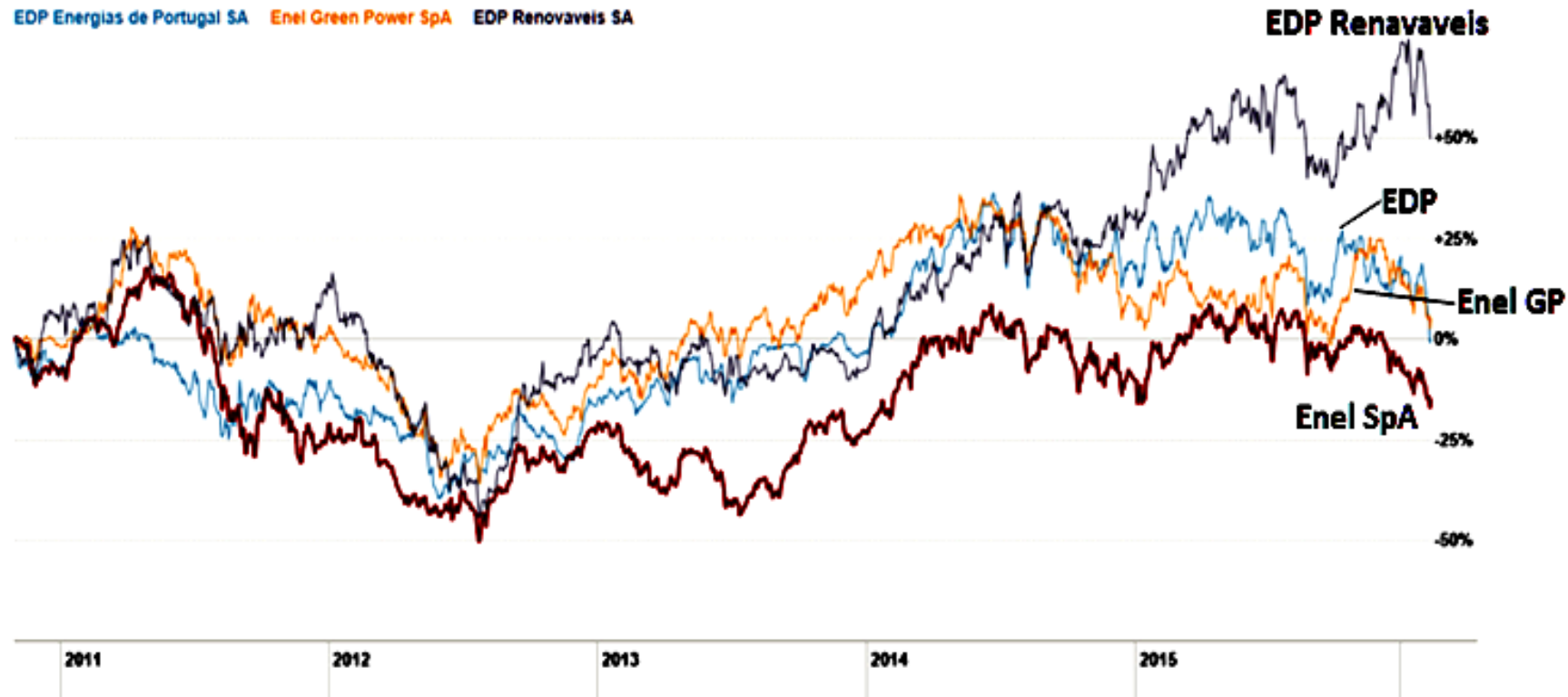
Benchmarket mot morselskapene

FINANCIAL TIMES

Enel SpA ENEL:MIL

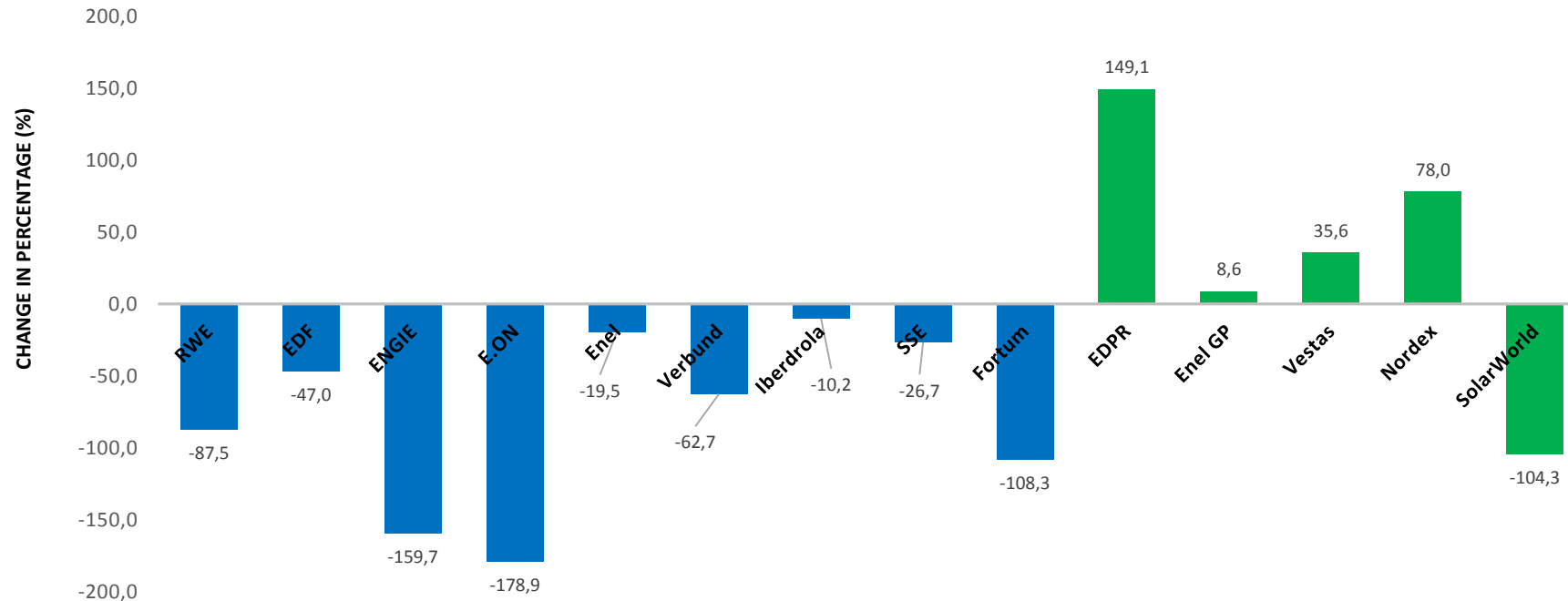
11/01/2010 - 02/12/2016: Daily data interval

EDP Energias de Portugal SA Enel Green Power SpA EDP Renovaveis SA



EBIT endring 2008 – 2015 (i prosent): De konvensjonelle mot grønne aktører

EBIT change: 2008 - 2015

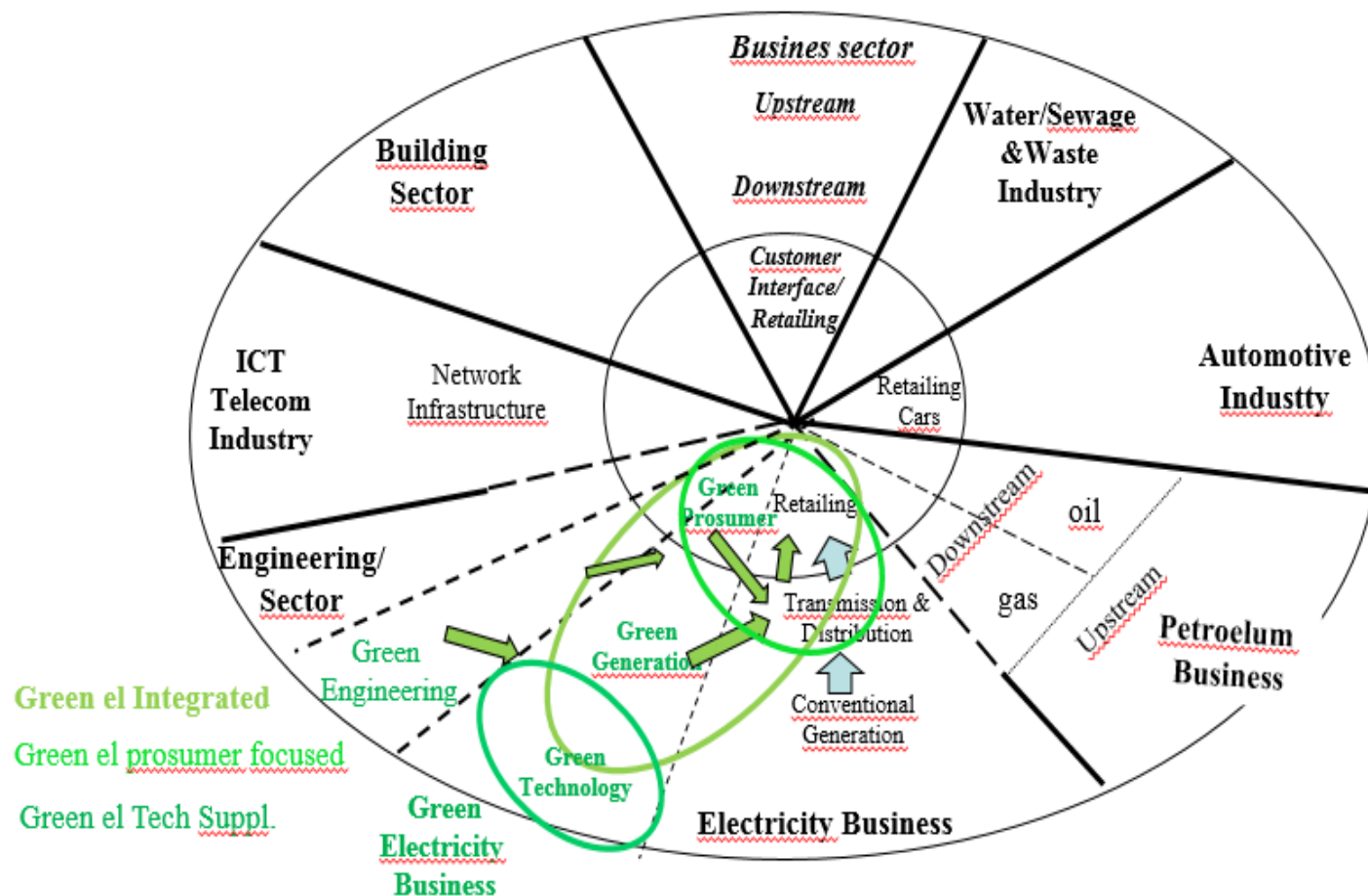


ANOVA		N	Mean	Std. Deviation	Sig. ANOVA
EBIT change 2008-2015 (%)	Incumbent	9	-77,83	60,94	0,019
	Green player	5	33,40	93,48	
Total		14	-38,11	89,63	

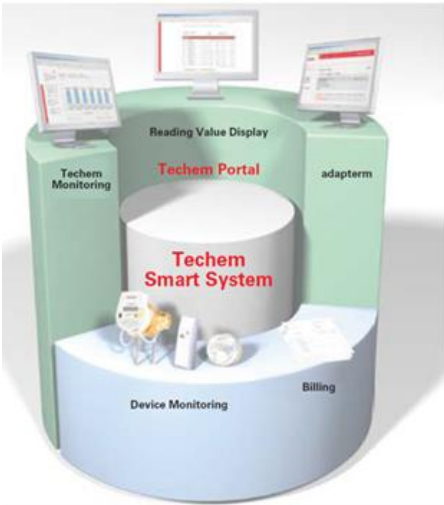
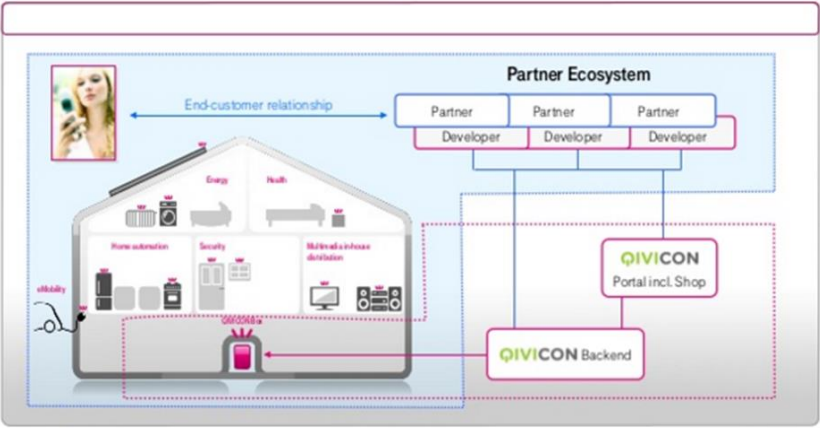
Klar sammenheng mellom fornybarengasjement og aksjeverdi

	% Wind power 2015	RE Output change '00-'15(%)	RE Proportional change '08-'15(%)	RE Proportional change '00-'15(%)	Wind Proportional change '08-'15(%)	Wind Proportional change '00-'15(%)
Share price 08 - 16(%)						
Pearson Correlation	,771*	,818*	,751*	,771*	,804*	,802*
Sig. (2-tailed)	,025	,013	,020	,025	,016	,030
N	8	8	9	8	8	7

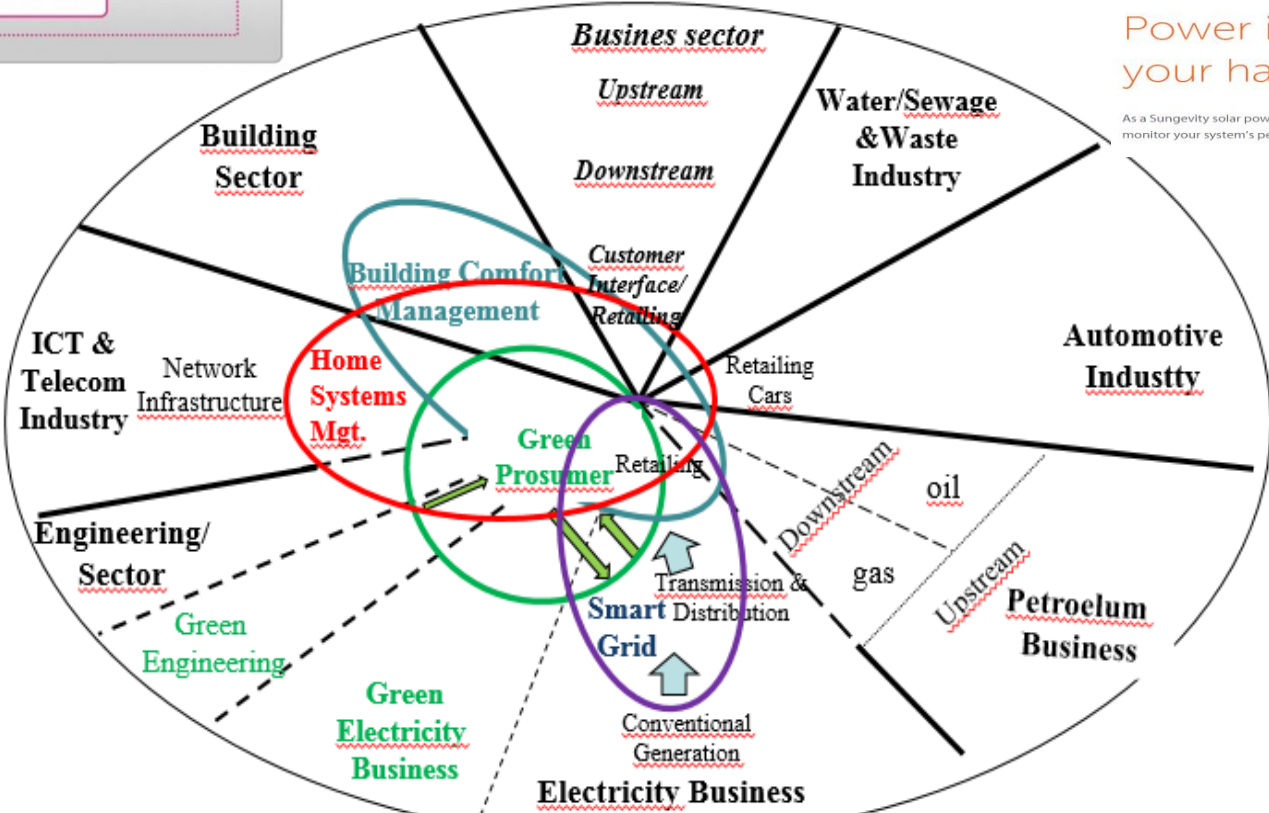
Grønne aktører



Digitale utfordringen og kundesenterte modeller



Techem Smart System: The platform for innovative added-value services.



Power in the palm of your hand.

As a Sungevity solar power customer, you get accurate tools that enable you to monitor your system's performance online and from your mobile devices, anywhere.

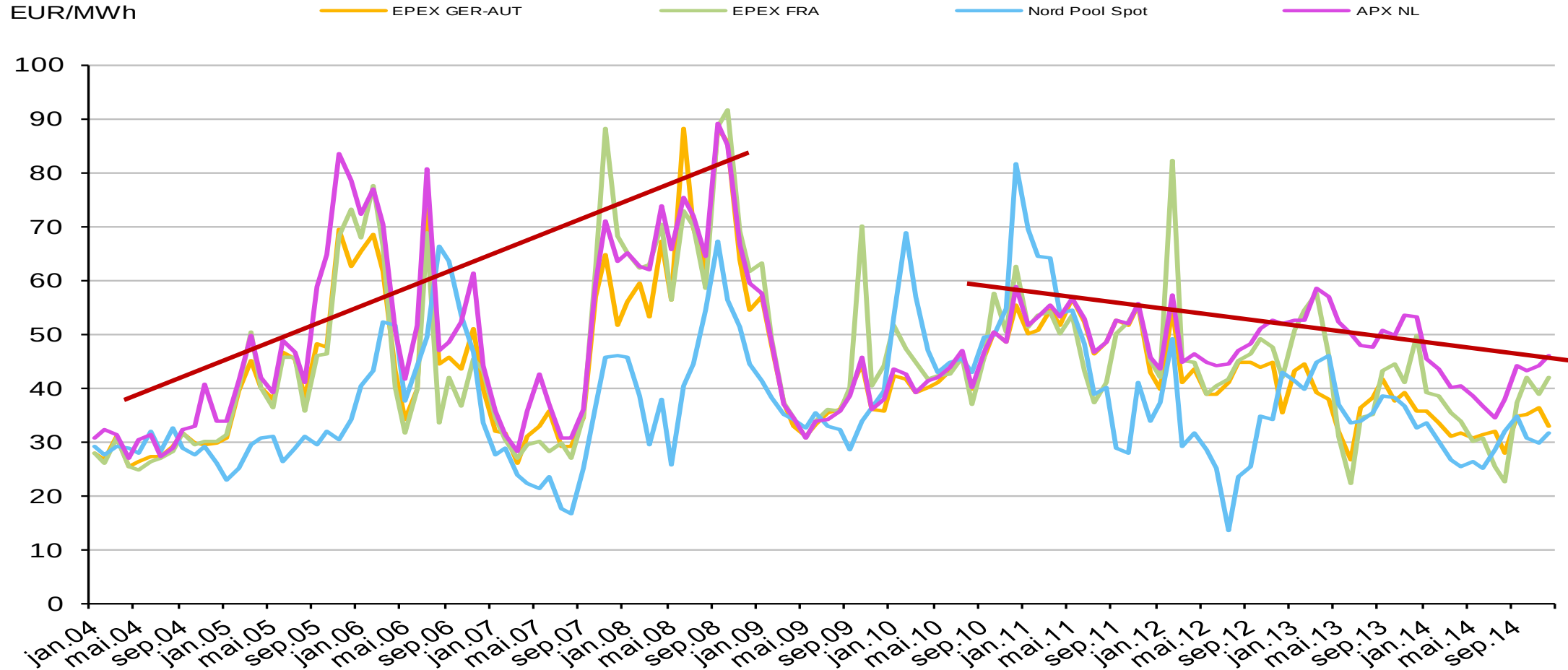


This complex block contains several sections:

- Energy-Market & Energy-Apps**: Energy-Apps can integrate, monitor and manage smart or dumb devices. They nurture communication between devices. Energy-Apps can help you to analyze and aggregate data and display this as necessary. Apps provide you with a simple solution to integrate our management and monitoring tools into your existing software interfaces.
- Energy-Cloud & SaaS Platform**: Kiwigrid operated, secure and scalable big data platform to analyze collected data and provide optimization, automation and management for connected devices. So linked generators (such as CHP, wind or PV), intelligent large-scale consumers (such as air conditioners and heat pumps), storages (both electrical and thermal) and electric mobility become measurable, controllable and automatable.
- Energy-Manager & Grid-Manager**: The flexible, open and adaptable gateway to the Energy-Cloud. Your local command and control center to enable a dynamic balance between energy generation, energy storage, energy consumption and the grid.
- Interfaces & Connectivity**: We provide many common interfaces to connect with your devices out-of-the-box. Our interfaces communicate with your or your customers' hardware speaking their language to exchange data. If you have very specific needs we can help you to develop the hardware and software connecting to standardized and proprietary interfaces.

Graphics include a cloud with energy icons, a shopping cart, and various interface icons like RS 485, RS 232, S0, KNX, and CAN.

Monthly spot prices for Electricity



Fra Teknologisk mot Industriell Rekonfigurering

