



The UK energy market context

International workshop on publicly owned energy companies
Edinburgh

11th May 2018

Tony Norton
Head of the Centre for Energy and the Environment
University of Exeter

The early days of the UK energy market



Year	Event	Consumers
1887	Exeter Electric Light Company formed	0
1896	Purchased by Exeter City Council	350
1905	Haven Banks power station opened	1,100
1918	Haven banks generating 2MW	2,157
1930	Haven banks generating 15MW	18,463
1947	Nationalisation South West Electricity Board	
1955	Haven Banks closed	

The UK energy market pre privatisation



Generation/Supply

Transmission

Retail

Electricity



Central Electricity
Generating Board

Regional Electricity
Boards

Gas

BritishGas

The UK Energy Market

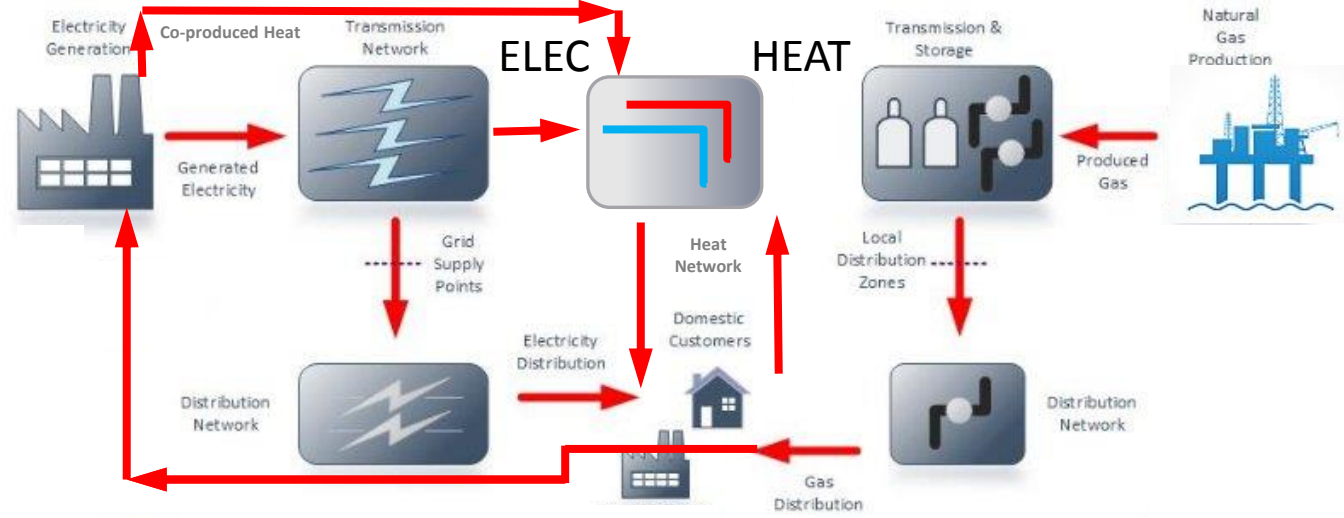


Image: Adapted from D Sensarama
<https://www.linkedin.com/pulse/how-energy-settlements-work-diptarka-sensarma/>



Post privatisation - electricity

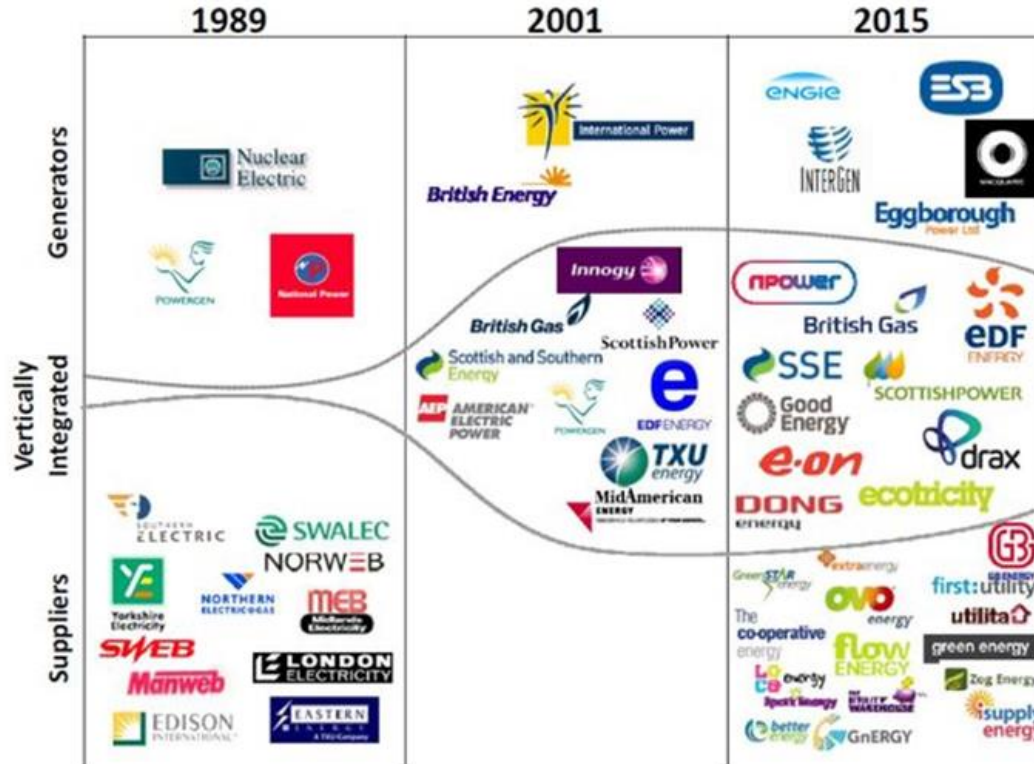


Image: Energy UK

The UK Energy Market

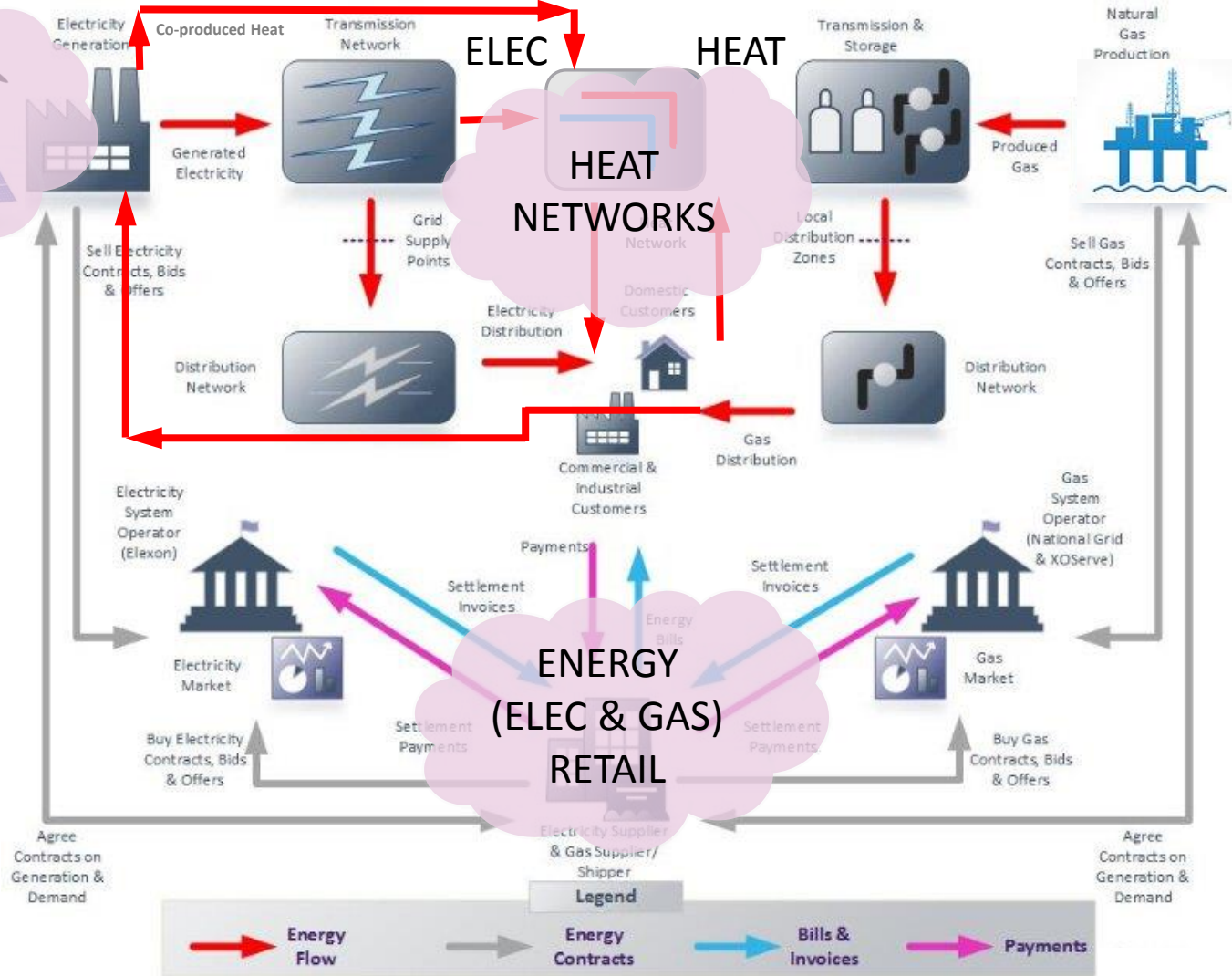


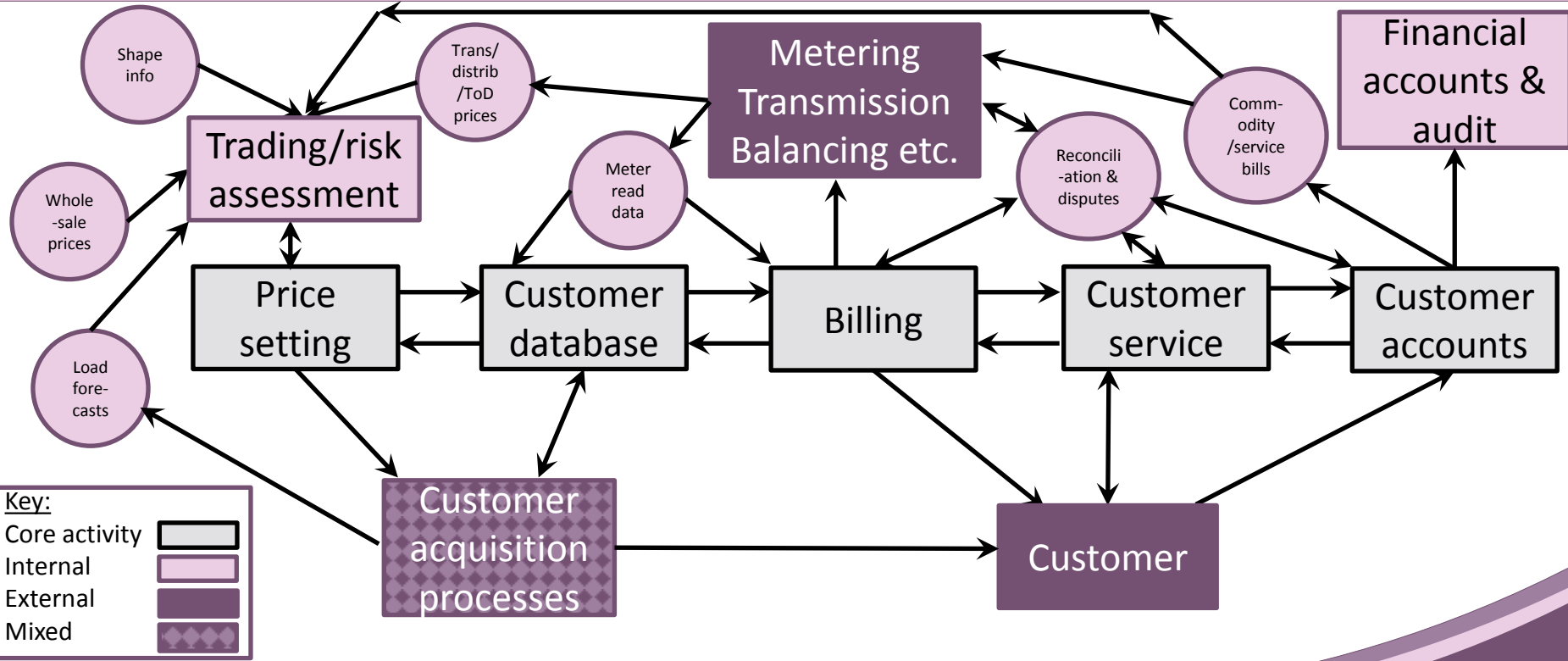
Image: Adapted from D Sensarama
<https://www.linkedin.com/pulse/how-energy-settlements-work-diptarka-sensarma/>

Energy business features



FEATURE	RENEWABLE GENERATION	RETAIL
Business type	Investment	Margin
Key risks	Capital cost Energy price	Energy volume
KPI	Load factor	Cost to serve

Energy retail complexity



Local authority energy business examples



RETAIL	HEAT NETWORKS
Robin Hood Energy (Nottingham)	Pimlico DHU (Westminster City Council)
Bristol Energy	Thameswey (Woking & Milton Keynes)
Angelic Energy (Islington/Robin Hood)	Bunhill Heat and Power Islington
Liverpool Energy Community Company (Liverpool/Robin Hood)	Gateshead Energy Company



The UK energy market context

International workshop on publicly owned energy companies
Edinburgh

11th May 2018

Tony Norton
Head of the Centre for Energy and the Environment
University of Exeter
a.d.s.norton@ex.ac.uk