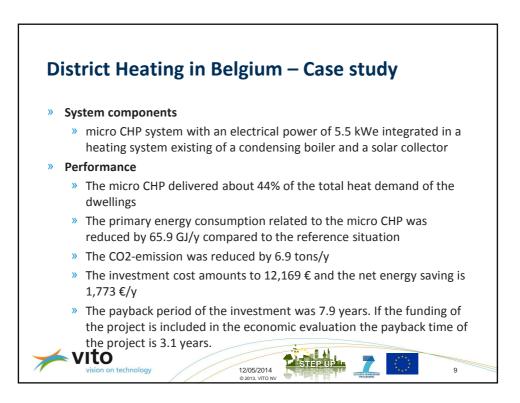




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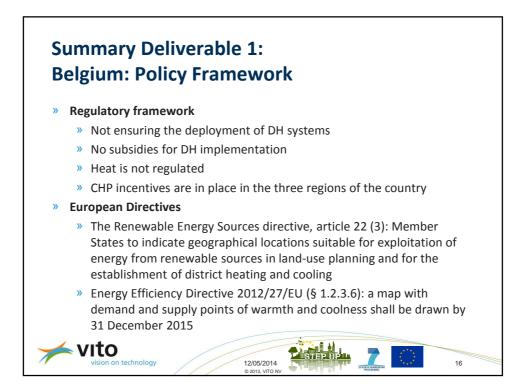


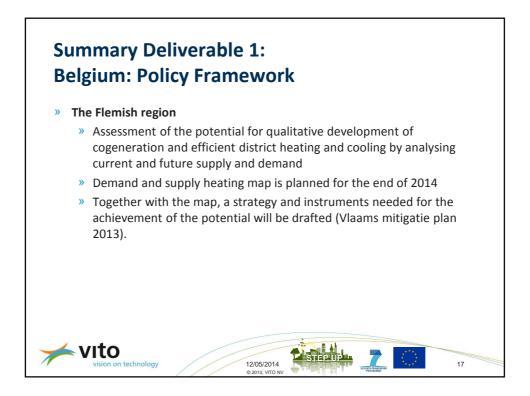
Summary Deliverable 1: Denmark: Policy Framework Planning Support Burden General heat planning Subsidies Energy taxation Waste planning Heat price regulation Ban on electrical heating **CHP** requirement and obligation to connect Law on district cooling Implemented in the 90's **vito** 12/05/2014 12



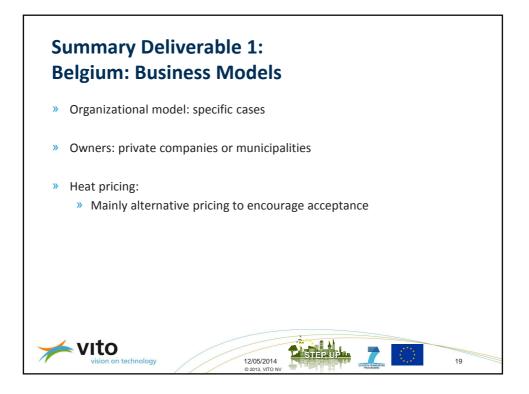
» Competition based a transmission/distribu	oproach: deregulated exc tion	ept for
Planning	Support	Burden
Long term planning introduction of DH	Subsidies	Tax on electricity consumption
Climate change program	Green electricity certificates	





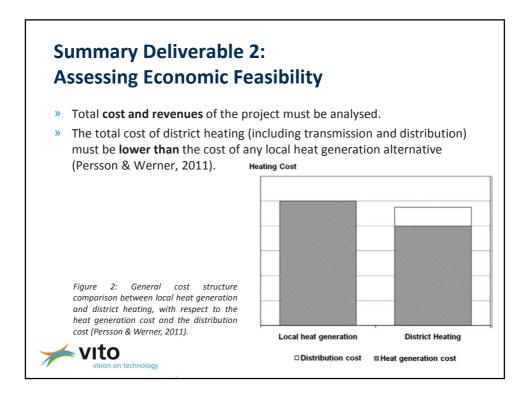


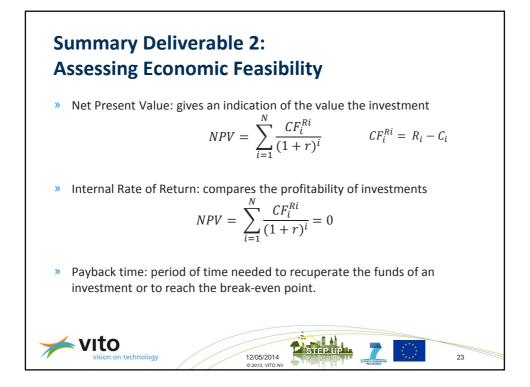
Support	Burden
CHP certificates	-
Green heat	
	Green heat

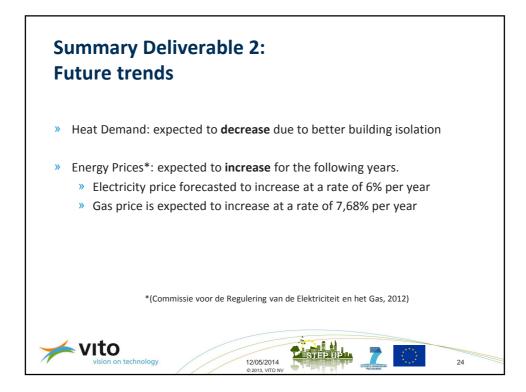


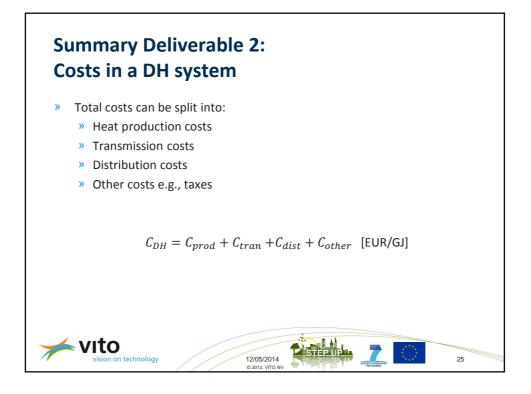


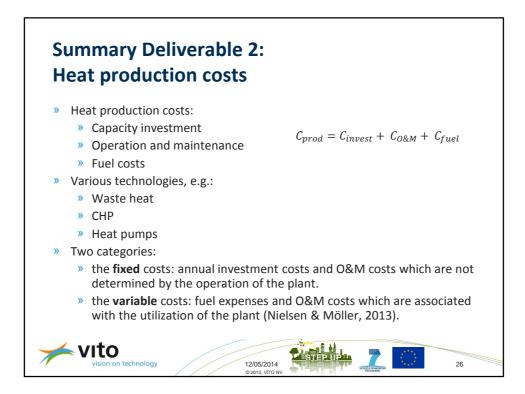


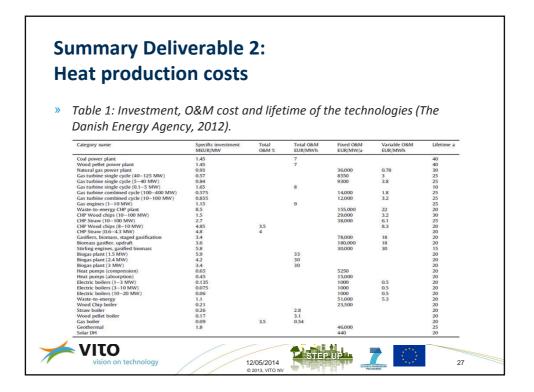




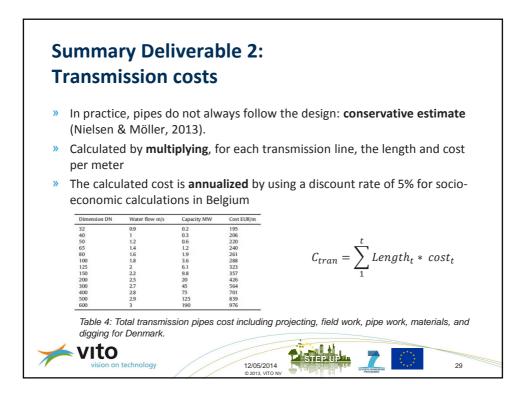




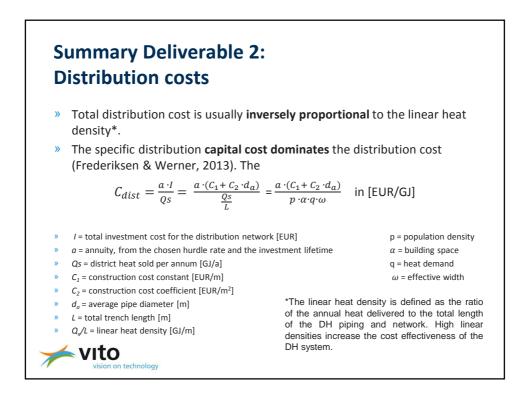


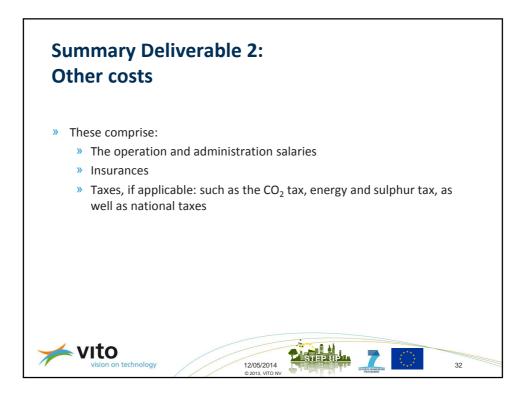


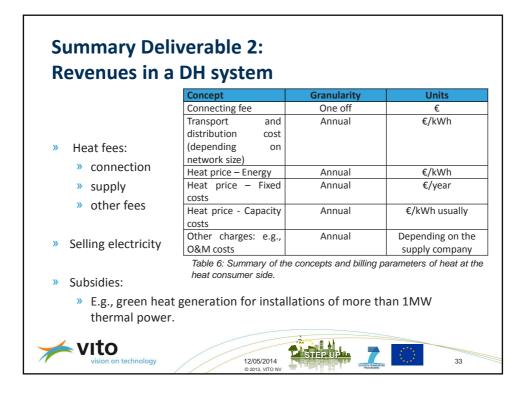
Summary Deliverable 2: leat production costs - Fuel cost	S
Include handling and transportation to the produce	ction units.
Calculated by multiplying the annual fuel consump	otion for each
production unit by the fuel costs.	
Fuel type	Price for Belgium
Unleaded	Retail price: 1.610 €/I.
(Superbleifrei, Euro sans plomb, Euro95)	Excl. VAT: 1.331 €/l.
Diesel	Retail price: 1.465 €/I.
(Gazole, Gasóleo)	Excl. VAT: 1.211 €/I.
Natural gas for industrial consumers	0.03783 €/kWh
(ref. May 2013, Consumption: 10 GWh/year, or approx.	
0.93 million m ³)	
Electricity for industrial consumers	0.09714 €/kWh
(ref. May 2013, Consumption: 2 GWh/year)	
LPG (GPL, Autogas)	Retail price: 0.726 €/I
2. 0 (0. 2) / (acoBab)	Retail price: 0.889 €/I
Home heating oil	

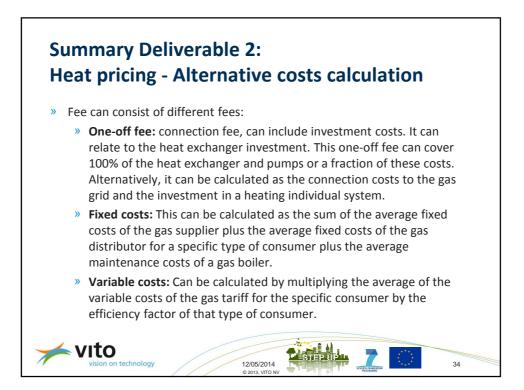


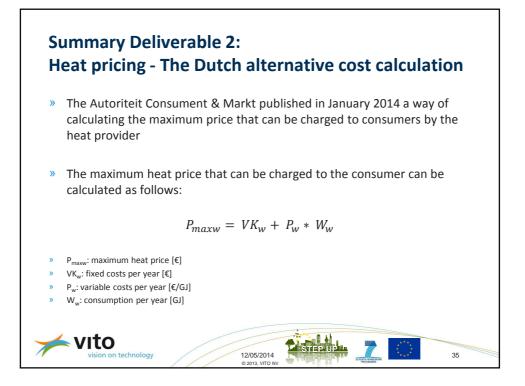




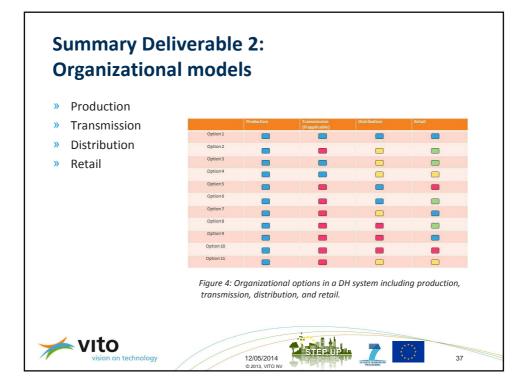


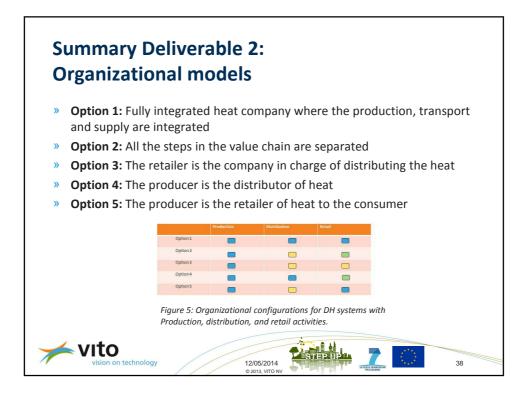






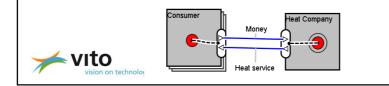






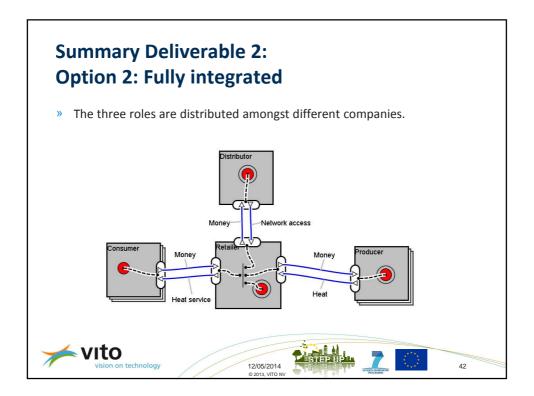
Summary Deliverable 2: Option 1: Fully integrated

- There are two main possibilities, when the heat company is privately owned or when the company is owned by the consumers and structured in a cooperative way.
- » This structure is typical in **incipient markets** and small-sized projects.
- The competition in this market configuration is rather limited, thus an important risk for the consumer is a high price or abuse from the heat company. This risk can be limited by partially regulating the heat price either the amount or the calculation method.
- » Administration costs are kept to a minimum.
- » The heat company undertakes all the risks and investment.

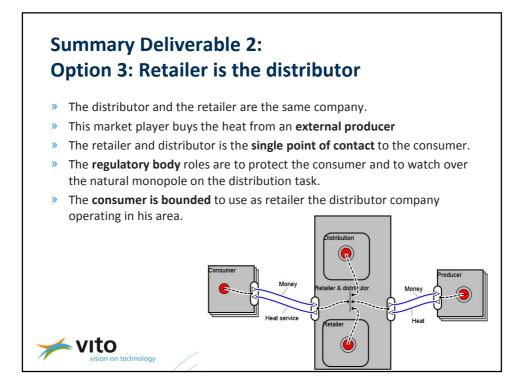


	6	11
Privately owned company	Consumer	Heat company
Risk	High heat price if not regulated or capped.	Investment in production ar network. Runs all the risks.
Advantages	No competitive structure. If regulation is in place, it limits the risks.	Not administrative intensiv Receives all the money.
		No competition.
	Consumer as owner: cooperative	structure
Risk	Undertakes all investments and risks	
Advantages Benefits for the consumer keep the system efficient.		d in the management. Incentive t
Advantages		d in the management. Incenti

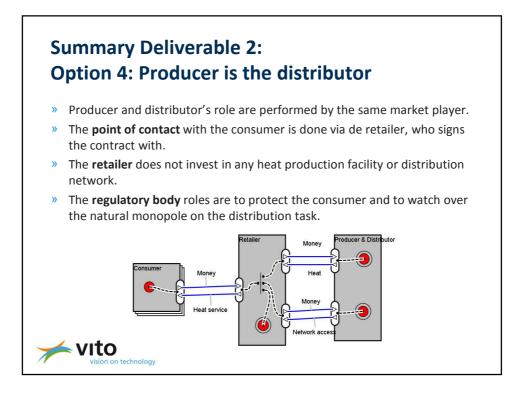




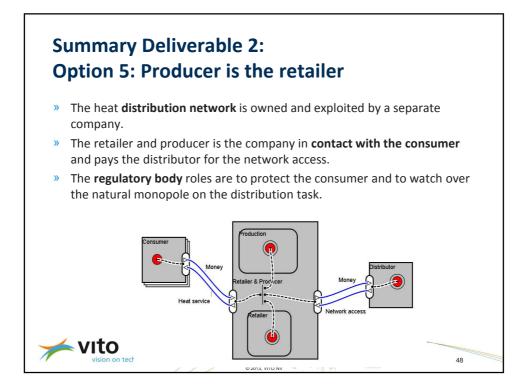
	Consumer	Retailer	Producer	Distributor
Risk	High heat price if not regulated or capped Can result more expensive due to the administrative	Depends on the network owner. It is a monopole, no incentive to be efficient. Depends on the	Investment in production capacity. May have competition	Investment in network. Natural
	costs	producer.	from other producers	monopole, shoul be watched over
Advantages	If regulation is in place, it limits the risks.	Has the contract with the consumer. He can stimulate	Limited investment.	Limited investment.
	More competitive structure.	competition at the production side by releasing tenders		



	Consumer	Producer	Retailer & distributor
Risk	High heat price if not	Investment risk in	Investment in network.
	regulated or capped.	production capacity.	Natural monopole, should be watched over.
	No	May have	Depends on the heat
	competition to choose the	competition from other	producer.
	retailer.	producers.	Higher administration costs than an-only distributor.
Advantages	If regulation is in place, it	Limited investment.	Has the contract with the consumer.
	limits the risks		
			He can encourage competition by releasing
			tenders.



	Consumer	Producer & Distributor	Retailer
Risk	High heat price if not regulated or capped	Investment risk in production capacity and network.	Depends on the producer & distributor.
		Depends on the retailer for commercialization.	In this structure there is no competition at the production side.
			If prices are not correctly regulated he might incur into losses.
Advantages	If regulation is in place, it limits the risks.	There is no competition	Has the contract with the consumer
	Might be a competitive market at the retailer side.		



	y Deliverable 2: : Producer is the	e retailer	
	Consumer	Producer & retailer	Distributor
Risk	High heat price if not regulated or capped.	Investment risk in production capacity. Depends on the network owner.	Investment in network.
		Competition from other producers.	Natural monopole, should be watched over.
		Higher administrative costs than an only-producer.	
Advantag	If regulation is in place,	Has the contract	Limited marketing
es	it limits the risks.	with the consumer.	efforts.
	It can be a competitive market.		

