

# We analysis the dynamics of energy markets, customers and offerings globally

Clients include Governments, Regulators, Energy Companies, Industrial Consumers, Vendors, Investors, NGOs and other Stakeholders World's leading source of historical and current analysis of churn trends. The original source of the EUs definition of switching

Focus on 6 continents, 60+ markets

The world's only experts to have tracked every liberalised electricity market globally since the onset of competition

European Union's (DG Ener)

price data. Monthly collection

from all 28 member markets

source of up-to-date retail



### Our case databases



### Used in projects for projects/clients globally

e.g. European Commission (ADVANCED, NatConsumers...), Regulators (e.g. OFGEM, NVE), Associations (e.g. BEAMA, ESMIG), Retailers, Utilities, Investors.



### Impact Evaluation Examples



Data from >5,000 smart meters for OWL, IBM, Landis and Gyr.



400 homes subjected to pricing signals and educational materials.



5 pilots (Enedis, ENEL, Verbund, Vattenfal, Endesa)



72 homes

## Mobile apps



### Mobile apps are a good starting point





Different apps for different models and people, especially millennials

		MVP	Base	Millennials
	Acquisition			✓
a	Meter Reading		1	✓
Service	Historical billing	1	1	<b>✓</b>
Ser	Current billing	✓	1	1
	Projected billing		✓	1
	Account updates & service	✓	1	✓
e l	Payment alerts	1	1	✓
neu	Consumption analytics			1
gen	Renewals		1	1
Engagement	Plan switching			✓
ш	Cross/up-selling		<b>✓</b>	✓

## Mobile apps







### **Higher Satisfaction**

20% higher for App users when done well

The largest population to join these days are millennials... they're table stakes in any discussion.

Director of Innovation, Leading US retailer

Relationship Impact A simpler relationship for customers, especially millennials; greater engagement; enabler of up-sell But uptake takes effort\*; Millennials still like personal contact; Does not lower operational costs

# The **Digital Friend**

### Digital that makes life simpler





Source: 4Hundred (Germany)

- Digital-Service
- Simple / Transparent / Fair
- Good Service
- Community
- Green



**Careful:** If the focus is cost reduction, the relationship may be weakened



Under Ovo's "Self Service Reward" you need to use Ovo's digital channels, such as its "Ovo Help" online tool, to find answers to any questions you have

Relationship Impact

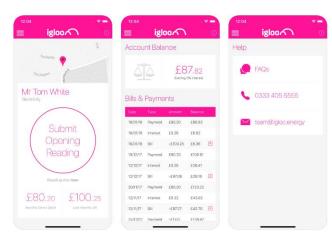
Digitally desensitised energy customers.

# The **Digital Friend**



Digital that makes life better, one step at a time





- Digital-Service
- Simple / Transparent
- Great service = Digital and Non-Digital
- Value-for money

Source: Igloo (UK)

Relationship Impact More digitally trusting customers. More ready for the next steps.

### The **Advisor**

# vaasa ETT

#### Digital to inform



You have 1 new message

We surveyed 50 engagement programmes and all key platform providers





Savings up to

17%

Satisfaction average

89%

Pilots combining home automation and education/feedback manage are more effective both at reducing peak (23% vs 22%) and overall consumption (2.7% vs. 0.41%). Source: VaasaETT 2017, modeling based on analysis of 100 international pilots\*



More engaged, aware, enlightened customers; short-term more loyal; long-term disloyal; explanation is not justification

## The **Empowerer**

# Vaasa Ett

#### Digital for the advanced prosumer



Pros	Cons
State-of-Art	Too early for most customers
Affordable energy solution	For high end customers
Replaces traditional retailer with less risk for customer	Requires efficient wholesale market.

Trading (buy/sell) / Usage

• Home automation / EV charging / P-to-P

- AI / Open digital and mobile platform
- Cost Reduction / Subscription based
- Green

Relationship Impact

Digital disintermediation - replaces the supplier as the connection to all things energy

Source: Tibber

# The Community Builder VaaSa ETT

#### Digital for the common person





Source: Powerpeers (Netherlands)

- Digital marketplace
- · See the actual energy suppliers in the community
- Choose where to get their energy supply
- Insight into consumption and generation
- Empowers consumers and prosumers, digitally
- Continuous engagement

Relationship Impact Inserts the energy relationship into the connected society – deeper engagement

# The Community Builder VaaSa ETT

### Digital for the common person



Relationship Impact Enables communities to become suppliers through a digital platform



Source: EnergyLocals (Australia)

# The Community Builder VaaSa ETT

### Digital for the common person



Relationship Impact

Prosumers become suppliers.

Source: Enyway (Germany)

### The Resource Builder



Flexibility, VPP, etc.



Source: Voltalis (France)

Relationship Impact The home becomes a resource, a customer, but requires trust, business case & connectivity

- > 100.000 automated homes
- Business Case: Flexibility
- Customer pays: Nothing
- Customer benefit: Energy Savings

### The **Passifier**

# Vaasa ETT

### Digital that replaces the customer

#### How it works

#### Get started in 60 seconds

Anyone can sign up from anywhere. You don't need to know anything about your energy supply — we just need a few simple bits of information you'll know off the top of your head, and we'll find out the rest for you.







We find and flip you to your best deal

with the ducing Joules. The most advanced saving algorithm in the world.

We'll find your best energy deal within one working day, taking any exit fees and discounts into account when we calculate your savings. We'll send you the full details of your new tariff and start.

switching you to it straight away.

+ More about your best deal

### Ou'll never overpay for energy again

Have peace of mind knowing that we'll always keep you on your best energy deal. We check the market every month, and if we find you an even better deal with greater savings, we'll switch you again.





### Sign up once, get great energy deals forever.

We'll get you a great deal taking care of everything. When that deal ends, we'll switch you again. You don't need to do anything.

- ✓ FREE service
- ✓ Two minute signup
- ullet We always keep you on a great deal
- ✓ No comparison, no hassle, no worries
- ✓ You can sign up even if your deal hasn't ended

Source: LookAfterMyBills (UK)

Look After My Bills

Relationship Impact

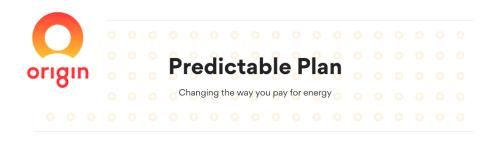
Making customers more active by making them less active

Source: Flipper (UK)

### The Risk Reverser



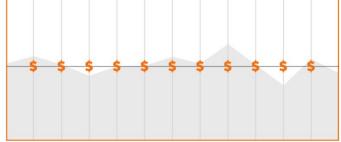
### Digital moving towards energy as a service



Pay the same amount for your electricity or natural gas for 12 months - no price hikes, no nasty surprises.

Our Fair Use Policy applies.

With Predictable Plan we'll calculate your tailored amount by looking at how much energy you've used in the past and how you heat and cool your home.



Source: Origin Energy (Australia)

Relationship Impact

The retailer takes the risk,
The retailer wins by selling less



# The **Digital Society**



Most new models are highly digitalised, they need a digitalised audience

		5	I	
Analysis: VaasaETT 2017	Awareness & Interest	Diversity	Activity	Experience
Connectivity	0.4454	0.6232	0.3415	0.1922
Human Capital	0.5002	0.6899	0.4169	0.3545
Use of Internet	0.23	0.5423	0.3163	0.1814
Integration of Digital Technology	0.5483	0.4652	0.3923	0.2717
Digital Public Services	-0.0075	0.6484	0.4295	-0.1009
DESI overall index	0.4589	0.7238	0.4473	0.253
			l	

Diversity of models and offerings is highly correlated with the degree of digitalisation of society

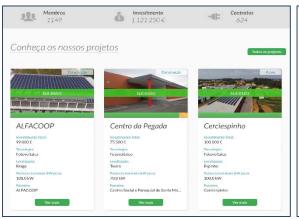
Policy Impact

The more digital the society, the more customers will be engaged in digital models

## The **Digital Divide**



#### Ensuring benefits for all from digital





Many models will initially be economic only in wealthier segments. Other segments follow.

But some applications make more sense for other segments or work best when mixed segments combine.





Policy Impact

Need to support those models that economically solve current issues for mid-low income groups

# Value from **Bundling**



#### Bundling is not all bad

			Key Model Characteristics															
Cases	Jurisdiction	Supporting Platform	Alternative financing	Innovative Tariffs	Power of Attorney	Feedback + Advice	DR / Flexibility	Automation	Energy as a Service	Internet of Things	Lifestyle + Comfort	Sales + Trading	Network Autonomy	Electric Vehicles	VPP / Generation	P-to-P	Community	Micro grids
Flipper	GB	X			Х													
June	NED	Х	Х		Х	Х												
Flick	NZ	Х		X		Х	Х											
RCG Lighthouse	Baltic								Х									
Voltalis	FR	Х	Х				Х	X										
British Gas + Hive	US, GB	Х	Х	Х		Х		X		Х	Х							
EDF Smart Home	FR	х	Х	Х		х	х	X		Х	х							
Reposit Power	AUS	Х		Х		Х	Х	х			Х	Х						
Sunplug + EDF	GB	Х	Х	Х				Х			Х		Х					
GEO	GB	Х	X			Х	Х	Х		Х	X		Х					
Sonnen	AUS DE	Х	Х	Х			Х	X	Х				Х					
Tibber	NO	X	X	X		X		X		X		X	X	X				
Swisscom Tiko	CH	Х	Х	Х			Х	X							Х			
Fortum	FI	X	Х	Х		X	Х	X							Х			
Vandebron	NED	X		X								X				Х		
Powerpeers	NED	Х		Х								Х				Х		
enyway	DE	X	X	Х								X				Х		
Bristol Energy	GB	X		Х													Х	
RePower	AUS	X	Х	X									X			Х	Х	
Sony	JP	Х	-			X				Х	X	Х	X	X	Х	Х	Х	Х
EWS	DE	-	Х	X					Х			X	X				Х	X

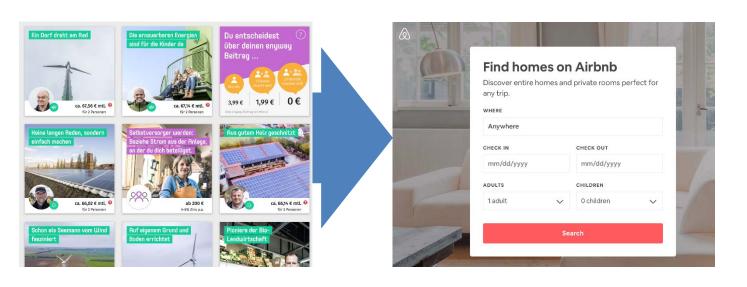
Transparency is essential, but so is bundling. Many models depend on it.

Policy Impact We need to debate how to combine bundling and customer protection.

## **Micro-suppliers**



### Enabling a new breed of supplier



Too many obligations, to evolve from prosumers to microsuppliers.

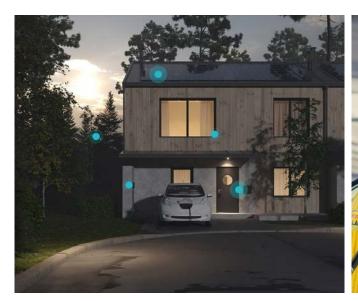
Policy Impact

True Peer-to-Peer will not happen until the customer, not the platform, is the supplier

### **EV** Driven **Models**



EVs are key to the economics of many models





Policy Impact

Allow innovative charging models to flourish.

### Access-to-Data

# Vaasa ETT

#### Some data is better than no data



Historical data is complicated to access, even with customer consent, especially prior to service. Makes it difficult to customize offers.

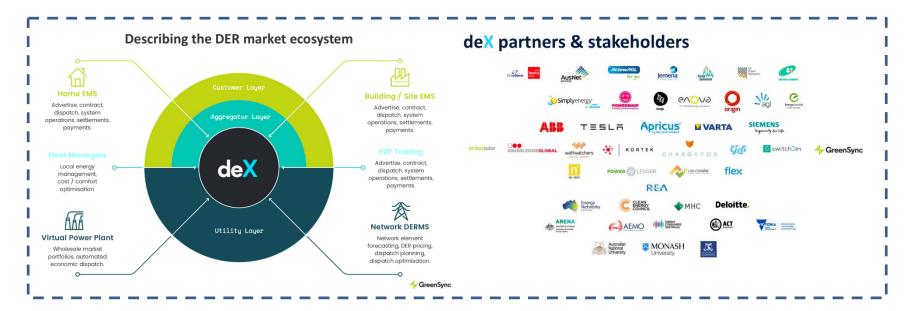
The is a huge amount of data coming from new models, yet smart meters are the only certifiable remote measures.

Policy Impact There is a need to free up channels to data and enable gatekeepers to be bypassed

# Access for Flexibility



Giving flexibility a chance



There are a lot of unused flexibility resources in the system. The need to be garnered, enabled and empowered.

Policy Impact Develop true national flexibility marketplaces and enable flexibility to compete for more value

