



# - LET ' S GO -

## Leadership in Energy TranSition and GOVERNance

### Programme Day 1:

#### Smart Grids Amsterdam Metropolitan Area

The Amsterdam Area is bursting with smart energy initiatives: companies, public bodies and the authorities are all involved in projects with a wide variety of size, scope and impact. An overview of these initiatives might help to focus, create cross-overs, speed-up the process and arrange smart financial arrangements at the same time. What could be the agenda for a larger Smart Energy Network?

**It is smart to cooperate on a regional scale!**

MRA presents its' ambition for a draft agenda for large scale implementation of Smart Grids

#### Breakout session I: The Energy Atlas

The City of Amsterdam facilitated the cooperation between 4 large energy consumers in providing an overview of their energy footprint: the Energy Atlas. Bob Mantel will present the results and even more important: the process how to achieve this.

**Information on energy consumption is a need-to-know in true action towards smart-grids.**

What are the lessons learned, how can we further explore the impact of this tool?

#### Breakout session II: Flexible Industrial End Users

With the integration of renewables in utility power grids the industry needs to look at the future with a very different perspective. As the share of renewables on power grids increases, electric utilities must respond to the challenge of balancing large shares of variable renewables, in order to maintain grid balance and stability. A fundamental rethinking of how energy systems need to be designed and to operate is needed.

**Are large end-consumers the key players in the energy transition?**

With contributions of: TSO Tennet, EV Consult, VITO and Zaanstad

#### Breakout session III: New Energy Coalitions

The development of an energy grid can be a matter of high complexity. Not in its technique, but in new coalitions and new ways of cooperation. Take the drivers seat in a game to explore the choices to be made. Experience how to structure a well working sustainable grid. Choose your role as a local government, a real estate owner, a health producing company or an energy company. You will have to negotiate with the other players about the ideal business case for this project.

**How would you develop an open energy grid?**

This game is offered by Alliander, the network company whose staff of around 6000 is responsible for energy distribution for over 3 million households in the Netherlands.

Open and Smart Energy Network

The Municipality of Zaanstad and the surrounding region are seriously working on implementing 'smart grid modelling', in which electricity and (residual) heat are connected in a multi modal local energy-grid. It is a joint project of businesses, housing associations, investors, network company Alliander and participants from the (semi-) public sector including the municipality of Zaanstad, the province of Noord Holland and the Zaanstad Medical Center.

**Clarify the needs, incentives, challenges and profits of cooperation..**

..for all shareholders in the local energy chain: producers, network companies, energy service providers and customers. With contributions of: Alliander, Goglio, Parteon, Dalkia, Antwerp Harbour Authority and Zaanstad.

Horizon 2020: supporting the energy transition

Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that this money will attract. It promises more breakthroughs, discoveries and innovations by taking great ideas from the lab to the market.

**Orientate on the possibilities that Horizon 2020 has to offer**

Kathrin Braun anticipates on the Matchmaking & Networking: Horizon 2020 - INTERREG Europe.

Matchmaking & Networking: Horizon 2020 - INTERREG Europe

Share your thoughts on today's information. Are you inspired by today's programme? Are you experienced? Seek for those in need of you! The purpose of the Matchmaking and Networking event is to stimulate new alliances and initiatives. Approximately 15 new research proposals are presented.

**Build new coalitions and sign in for EU-proposals**

Check the opportunities for funding by Horizon 2020, the new EU Research and Innovation programme (2014-2020).

## Programme Day 2:

### Vision EU

Energy Matters. Global, regional and local. The EU Commission has laid down renewed ambitions about climate and energy. Its new policy framework includes a new target of 40% reduction in greenhouse gas emissions below the 1990 level, and an EU binding target for renewable energy of at least 27% to be reached by 2030. The Commission also proposes a set of key indicators to ensure a competitive and secure energy system. Europe has set its targets, supported by extended funding and regulations.

### **European energy ambitions EU - do they go together with local initiatives?**

An inspiring update of EU's vision on the Energy Agenda.

### Findings & Future perspectives: Large industries and harbours

Large industrial cities and harbour areas, with a dense variety of production and consumption processes, are a perfect testing ground for smart energy concepts.

### **Hamburg and Antwerp offer a large amount of flexibility.**

The e-harbours partners explored the possibilities for large-scale implementation of smart energy for industrial end-users, specifically through three pillars of energy optimisation:

- More (local) renewable energy
- Increased energy efficiency
- And reliable energy provision

### Findings & Future perspectives: Small harbours & e-mobility

The EU's North Sea Coast is sprawled with small harbours. Here the power of numbers counts in energy matters. What to do in a smaller local community, in order to support the EU's energy goals? And how do electric vehicles contribute?

### **A hands-on approach for smaller harbour regions!**

### Inspirational session: Malmö stories on energy transitions

Malmö lifted itself by addressing sustainability and energy matters to the core of their city marketing. With spin-off in the economy, housing quality, population and external contacts and visibility. The Smart Homes as an Iconic Project of Energy Awareness.

### **Energy transition, the way to promote a city**

An inspirational session for public awareness and pride of place!

### Lessons learned and future perspectives: a practical portfolio

*Local government in charge, small harbours, e-mobility*

Within the North Sea Region many shareholders cooperate on different smart energy solutions. They focus on implementation strategies for a more sustainable and accessible energy model, encountering challenges and promising opportunities for smart energy solutions.

### **An in-depth session with e-harbours, EV Consult and EnergyGO representatives on practical application of local smart energy solutions**

How to overcome the obstacles and exploit the potential of smart energy systems? What steps are required?

<p><u>Future perspectives and lessons learned: a mix of policy and large end-users</u> <i>Large end consumer; large industries and an inspirational view on EU's energy transition</i> A major topic in EU's energy policy is competitiveness for the industry. Large industrial energy consumers as friend or foe in the energy transition?</p> <p><b>An in-depth session with e-harbours and ESPON and NSRP representatives on the policy of smart energy solutions</b></p> <p>How to involve major players in smart energy systems? What steps are required?</p>
<p><u>Inspirational session: Rotterdam</u> The port of Rotterdam will elaborate on their practices within the energy transition and their respective role. The Rotterdam Port vision 2030 and the related sustainability strategy has a prominent place: keywords are efficiency and sustainability. The energy transition in the broader port and industrial area is presented, with a focus on the energy diversification (natural gas, sun, wind, hydrogen, heat to electricity, storage etc.)</p> <p><b>What happened in Rotterdam?</b></p> <p>The integration of energy infrastructures planned in the harbour, where sustainable utilisation of waste-heat, CO2 feed inn into greenhouses and interlink-ages with the steam and electricity grid network are presented. The presentation is focussing on both the strategic long term vision and the realization of projects. Rotterdam a unique industrial area with brownfield advantages and greenfield opportunities.</p>
<p><u>Point of arrival presented</u> The e-harbours team composed a framework for further implementation of smart energy networks.</p> <p><b>Don't miss the launch of this inspirational toolbox!</b></p> <p>A booklet, a poster and an online toolbox.</p>
<p><u>Inspirational session: Masterclass Transition Management</u></p> <p><b>The eye of the hurricane!</b></p> <p>Prof Jan Rotmans explains why some of us still seem able to ignore one of the largest changes in our lifetime. But after this Masterclass you can't anymore...</p>

