

24e journée du CUEPE

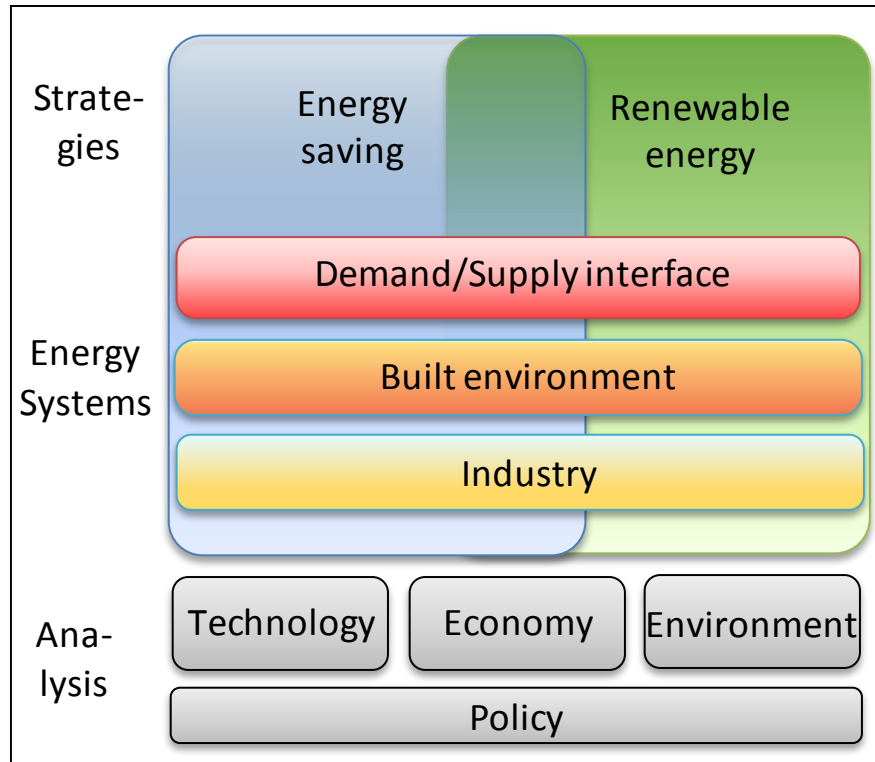
# Le nouveau rôle des fournisseurs d'électricité: Maximiser l'efficacité énergétique à la place des ventes?

## *The New Role of Electric Utilities: Maximizing Energy Efficiency instead of Sales?*

Groupe énergie | *Energy Group*  
Institut des sciences de l'environnement – Institut Forel  
*Institute for Environmental sciences – Forel Institute*



# Energy Research at the University of Geneva



Prof. Martin K. Patel  
Chaire en Efficience  
énergétique



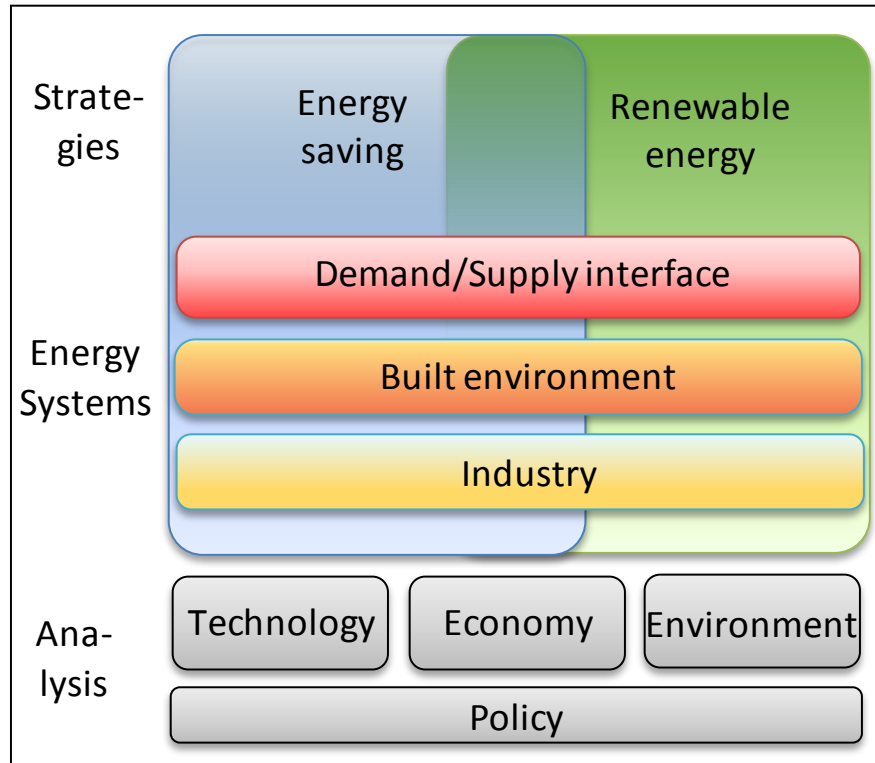
Prof. Bernard Lachal



Dr. Franco  
Romerio-Giudici

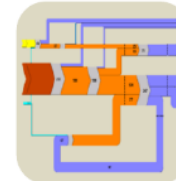


# Energy Research at the University of Geneva



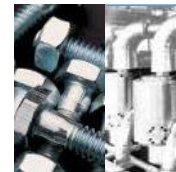
## Built environment

- Insulation
- Heating system



## Demand/Supply infrastructure

- CHP, District heating
- Energy storage



## Industrial systems & materials<sup>2</sup>

- Industrial energy efficiency
- Bio-based materials



## Renewable energy

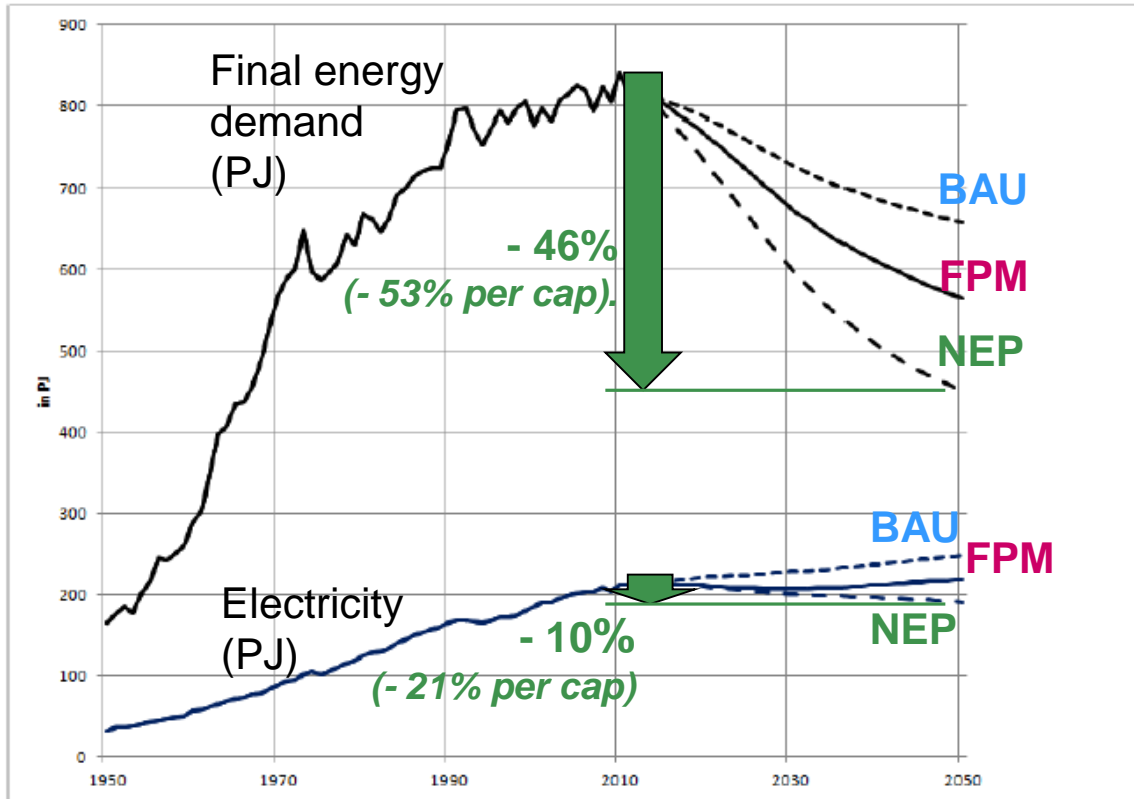
- Solar energy
- Hydropower



## Policy and economics

- Liberalization
- Tariff design

# Swiss Energy Strategy 2050



Rapport explicatif  
concernant la  
Stratégie  
énergétique 2050,  
sept. 2012

Prognos  
Energieperspektiven  
2050, 2012

**BAU:** Business as usual (Poursuite de la politique actuelle)

**FPM:** First package of measures (Mesures politiques du Conseil fédéral)

**NEP:** New Energy Policy (Nouvelle politique énergétique)

# Mécanismes d'obligations en matière d'efficacité énergétique

## *Energy Efficiency Obligations (EEO)*

Encore un autre instrument à côté de:

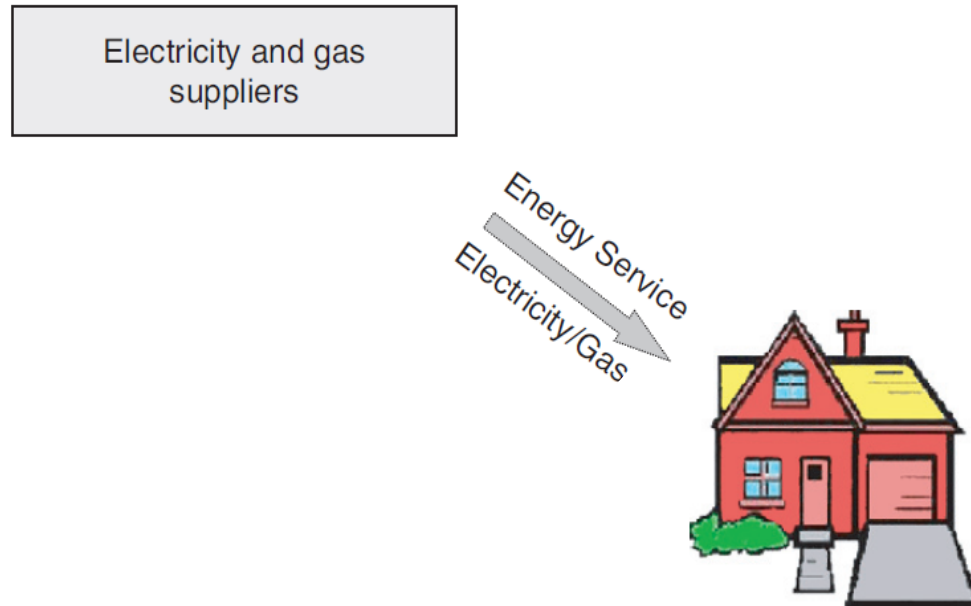
- programmes MDE
- certificat blancs
- taxes sur l'énergie ou CO<sub>2</sub>
- normes pour appareils
- normes pour bâtiments
- étiquetage énergétique
- contrat de performance én. (CPE)
- échange des droits d'émission
- réglementation d'approvisionnement.
- accord négocié
- subventions, prêts destinés, dérogations fiscales
- enseignement et formation cont.
- autres

*Yet another instrument next to:*

- *DSM programmes*
- *White Certificates*
- *Energy tax, carbon tax*
- *Appliance standards*
- *Building codes*
- *Energy efficiency labelling*
- *Energy performance contracting*
- *Emission trading*
- *Procurement regulations*
- *Negotiated Agreements*
- *Subsidies, grants, tax exemptions*
- *Training and education*
- *Other*

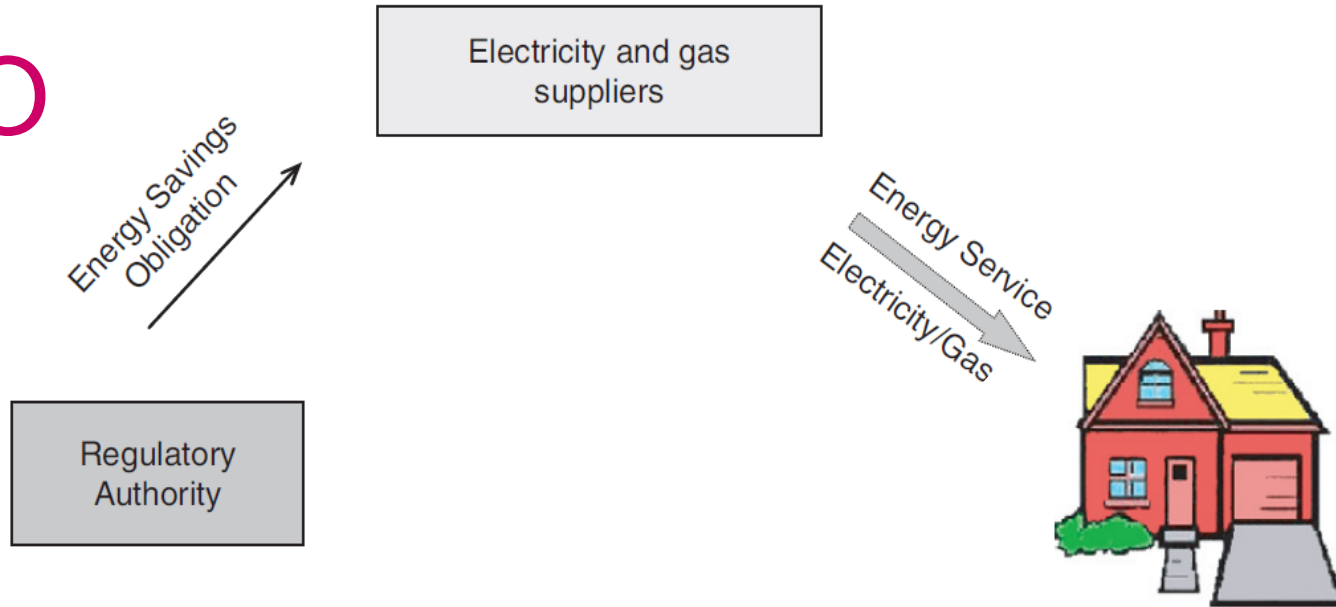
# What are EEOs?

DSM



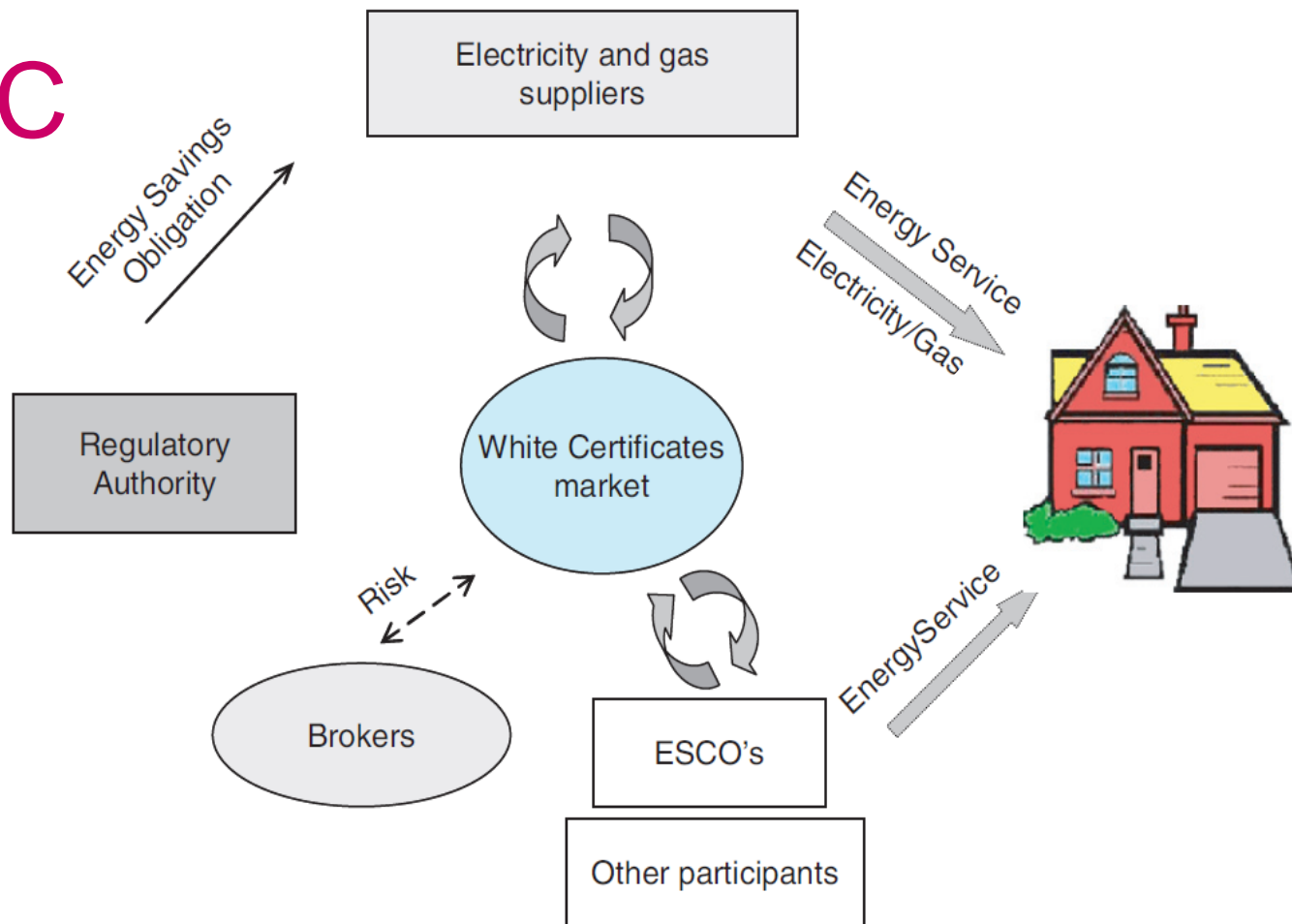
# What are EEOs?

EEO



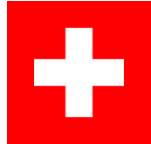
# What are EEOs?

## WhC





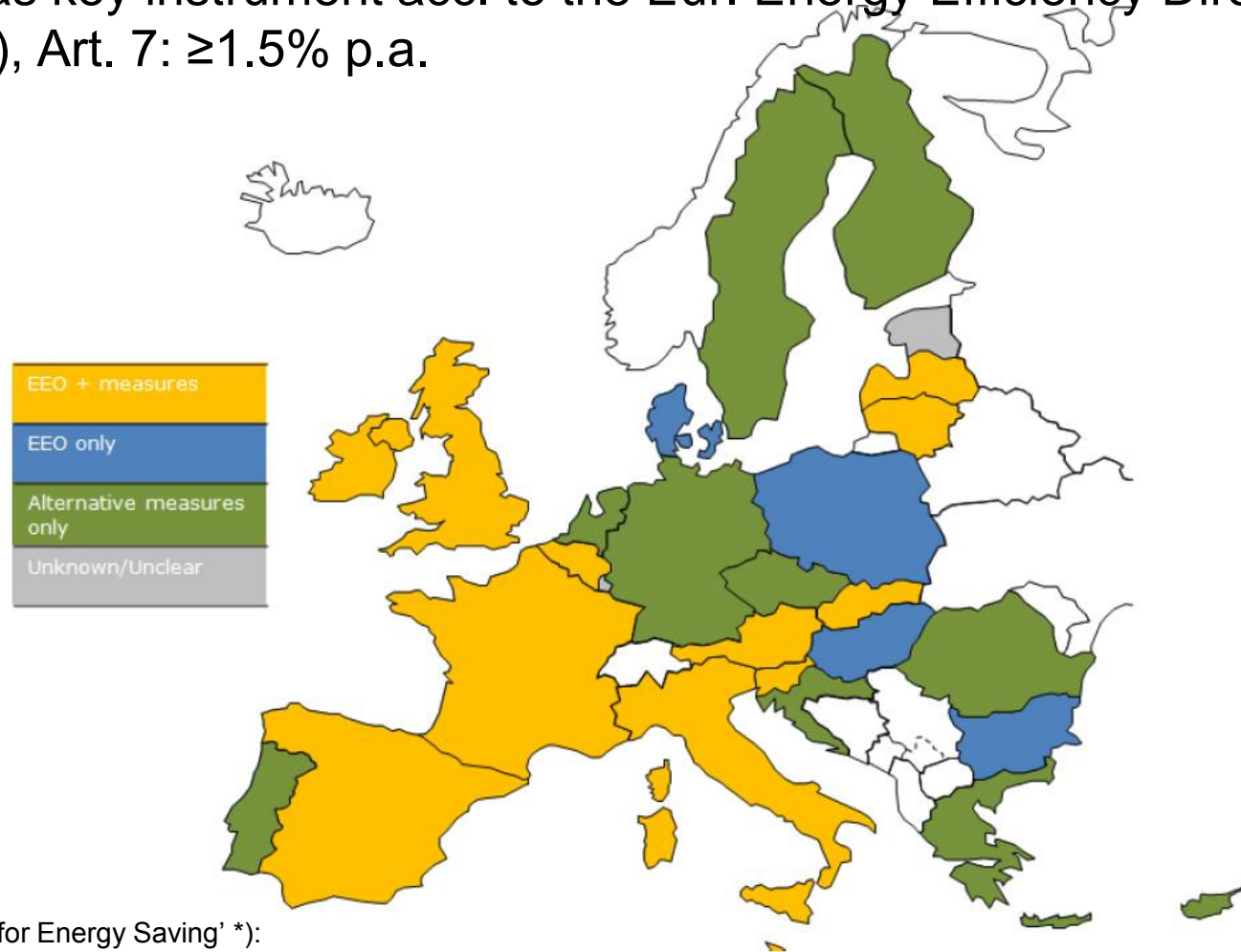
# Why consider EEOs?



- White Certificates according to the First package of measures of the Swiss Energy Strategy 2050 (Sept. 2013)



- EEO as key instrument acc. to the Eur. Energy Efficiency Directive (2012), Art. 7:  $\geq 1.5\%$  p.a.



Coalition for Energy Saving' \*):

Implementing the EU Energy Efficiency Directives – Analysis of Article 7 Member States reports, 2014

## Our questions for today...

- What are the drivers and barriers for EEO?
- Which experience has been made with EEO?
  - Evaluation of the experience from different perspectives
  - Performance indicators (effectiveness, cost effectiveness)
- Which mechanisms need to be leveraged to make a success of EEOs?
- What could be an alternative to EEO?
- What else?



9h00

### **Introduction**

Martin Patel

Université de Genève, Institut des sciences de l'environnement et Institut Forel, Groupe énergie



**UNIVERSITÉ  
DE GENÈVE**

9h10

### **Why some Swiss Electricity Utilities actively promote Energy Efficiency and others don't**

Yann Blumer, Corinne Moser

Zürcher Hochschule für Angewandte Wissenschaften (ZHAW)

9h40

### **International Experience with Utility Energy Efficiency Programs**

Frederick Weston

The Regulatory Assistance Project (RAP)

10h20

### **European Experiences with Energy Saving Obligations**

Nils Borg

European Council for an Energy Efficient Economy (eceee)

10h50

*Pause*

11h20

### **éco21: développer l'économie verte en maximisant l'efficacité énergétique**

Gilles Garazi & Cédric Jeanneret

Services Industriels de Genève (SIG)

11h50

### **Prokilowatt – Le Programme pour la réduction de la consommation d'électricité et perspectives pour les entreprises électriques**

Ivan König

Office fédéral de l'énergie (OFEN)

12h30

*Déjeuner | Lunch*

14h00 **L'effet net sur l'emploi de la transition énergétique en France**  
Philippe Quirion  
Centre international de recherche sur l'environnement (CIRED) et Centre national de la recherche scientifique (CNRS)

14h30 **Promouvoir l'efficacité énergétique en modifiant les comportements**  
Claire-Michelle Loock  
BEN Energy

15h00 *Pause*

15h20 **Energy Efficiency Certificates: Design and Application of a New Market-Based Instrument for Industry and Service Sector**  
Marcel Wickart  
ewz

15h50 **Table ronde | Round Table**  
Participation de tous les orateurs et de Marco Pfister de Greenpeace Suisse / *Participation of all speakers plus Marco Pfister from Greenpeace Suisse*

16h40 **Mots de clôture | Closing words** – Michel Balestra

16h45 *Apéritif | Aperitif*