10th St. Gallen Forum for Management of Renewable Energies May 23-24, 2019 - Olma Messen St. Gallen















#### **#REMforum 2019: Pre-Conference Workshop**

## Swiss Strategy 2050 & EU -Clean Energy Package: Stronger together?

- Beatrice **Petrovich**, University of St. Gallen (WS leader)
- Philipp **Thaler**. University of St. Gallen (WS leader)
- Jean-Christophe Füeg, Swiss Federal Office of Energy, Head of International Affairs
- Oliver **Koch**, Deputy Head of Unit, DG Energy, European Commission
- Imke Lübbeke, Head of Unit, EU Climate and Energy Policy, WWF European Policy Office
- Eberhard Röhm-Malcotti, Head of EU Energy Policy, Axpo Group
- Jörg Spicker, Senior Strategic Advisor, Swissgrid AG

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### Agenda

- 13:00 13:30 Welcome coffee and registration
- 13:30 13:40 Introduction to the workshop
- 13:40 13:50 Presentation of findings on Europeanization of Swiss Energy policy, a research study carried out by the University of St.Gallen for the SNSF
- 13:50 14:30 Guest speakers' short interventions
- 14:30 15:10 **Panel discussion**
- 15:10 15:15 Introduction to group work
- 15:15 15:35 Coffee break
- 15:35 16:20 Group-work in 5 parallel groups working on
- 16:20 16:30 Break
- 16:30 17:30 Presentations of findings from each group and final discussion

Center for Energy Innovation,

#### Study: Europeanization of the Swiss Energy System

Preview of selected results (\*)



#### **Europeanization of the Swiss Energy System**

Complementary study NRP 70 Energy Turnaround / NRP 71 Managing Energy Consumption

Prof. Dr. Peter Hettich IFF-HSG Dr. Philipp Thaler, IPW-HSG Livia Camenisch, IFF-HSG Benjamin Hofmann, IPW-HSG Beatrice Petrovich, IWÖ-HSG Prof. Dr. Rolf Wüstenhagen, IWÖ-HSG





# Switzerland in the European electricity grid High-voltage electricity lines





Source: ENTSO-E

### Switzerland in the European grid Stern von Laufenburg (1958)







### Switzerland in the European grid

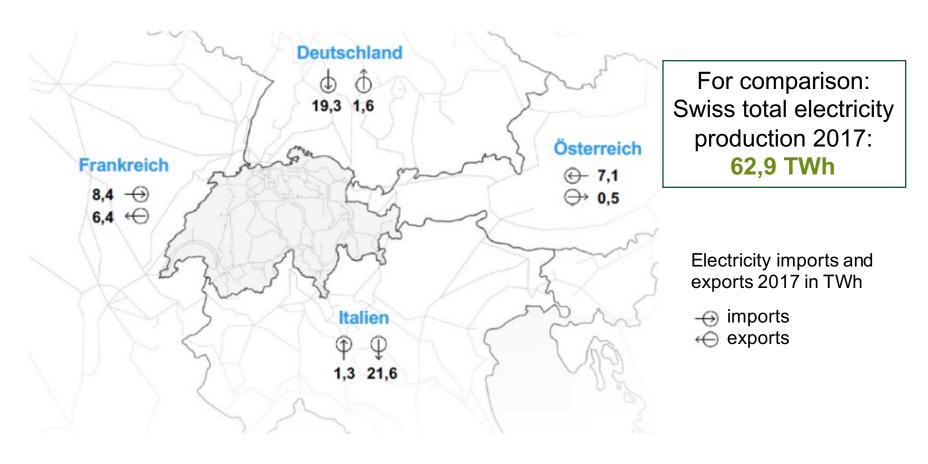
41 interconnectors with neighboring countries





Source: ENTSO-E

# Electricity flows through Switzerland Hub or copper plate?





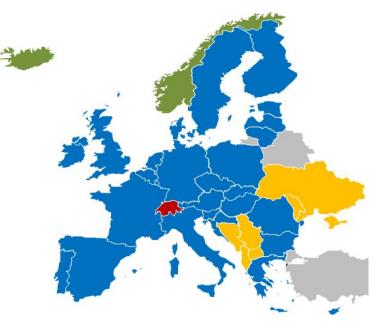
Center for Energy Innovation,

Source: Swissgrid

#### The Swiss 'special' case



Switzerland is physically **fully integrated** in the European electricity system



But stark regulatory differences exist

Despite regulatory gaps, are there channels of coordination and influence?

And how will these channels evolve with or without and electricity agreement?

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#### Preliminary conclusions (\*)

- Currently, Switzerland has access technical and political as well as formal and informal European channels of energy policy coordination
- With an electricity agreement, some of these channels will be strengthened. Switzerland will benefit from increased access, formalized coordination and/or an upgraded status
- With an electricity agreement, some of these channels will deteriorate.
  Switzerland will potentially have less access and/or a downgraded status



## Impact on Swiss RE mix - Preliminary conclusions(\*) What changes with/without electricity agreement?

- An electricity agreement could impact the Swiss RE mix by affecting three factors:
  - the choice of support schemes for large-scale RE producers
  - the ease of cross-border trade
  - the incentive for specialization of the Swiss domestic generation and flexibility mix



#### EU Clean Energy Package

An inspiration for implementing the Energy Strategy 2050? Preliminary conclusions (\*)

- 1. Streamlining permitting
- 2. Explicit regulatory predictability

Reduce policy risk

- 3. P2P trading and PAA for prosumers
- 4. Network tariffs not discriminating storage
- 5. Widening self-consumption definition

Promote distributed renewables



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How much is the achievement of Switzerland's Energy Strategy 2050 conditional on a successful electricity agreement with the EU?



Jean-Christophe Füeg Head of International Affairs, Swiss Federal Office of Energy

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Given the new European Commission and Brexit negotiations, what kind of energy relationship can we expect between the EU and Switzerland?



Oliver Koch Deputy Head of Unit, DG Energy, European Commission

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Does the fragmentation of energy transition policies challenge the achievement of a world wide energy transition?



lmke Lübbeke Head of Unit, EU Climate and Energy Policy, WWF European Policy Office

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#### How would an ideal investment environment for renewables look for you?



Eberhard Röhm-Malcotti, Head of EU Energy Policy, Axpo Group

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No electricity agreement means most likely more stress on the Swiss grid: could this physically limit the expansion of Swiss renewables and/or scare off renewable energy investors?



Jörg Spicker, Senior Strategic Advisor, Swissgrid AG

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- **GROUP 1: What do we need to empower prosumers and self-consumption communities?** with: I. Lübbeke
- GROUP 2: What do we need to enable investment in small-scale distributed renewables, and solar in particular? with: C.J. Füeg
- GROUP 3: What do we need to enable investment in large-scale renewables, and hydropower in particular? with F Röhm-Malcotti
- **GROUP 4:** What do we need to have a power grid fit for the energy transition? with: J. Spicker
- GROUP 5: What kind of coordination do we need between Switzerland and the EU to make the energy transition happen? with: O Koch

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# Thank you!

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