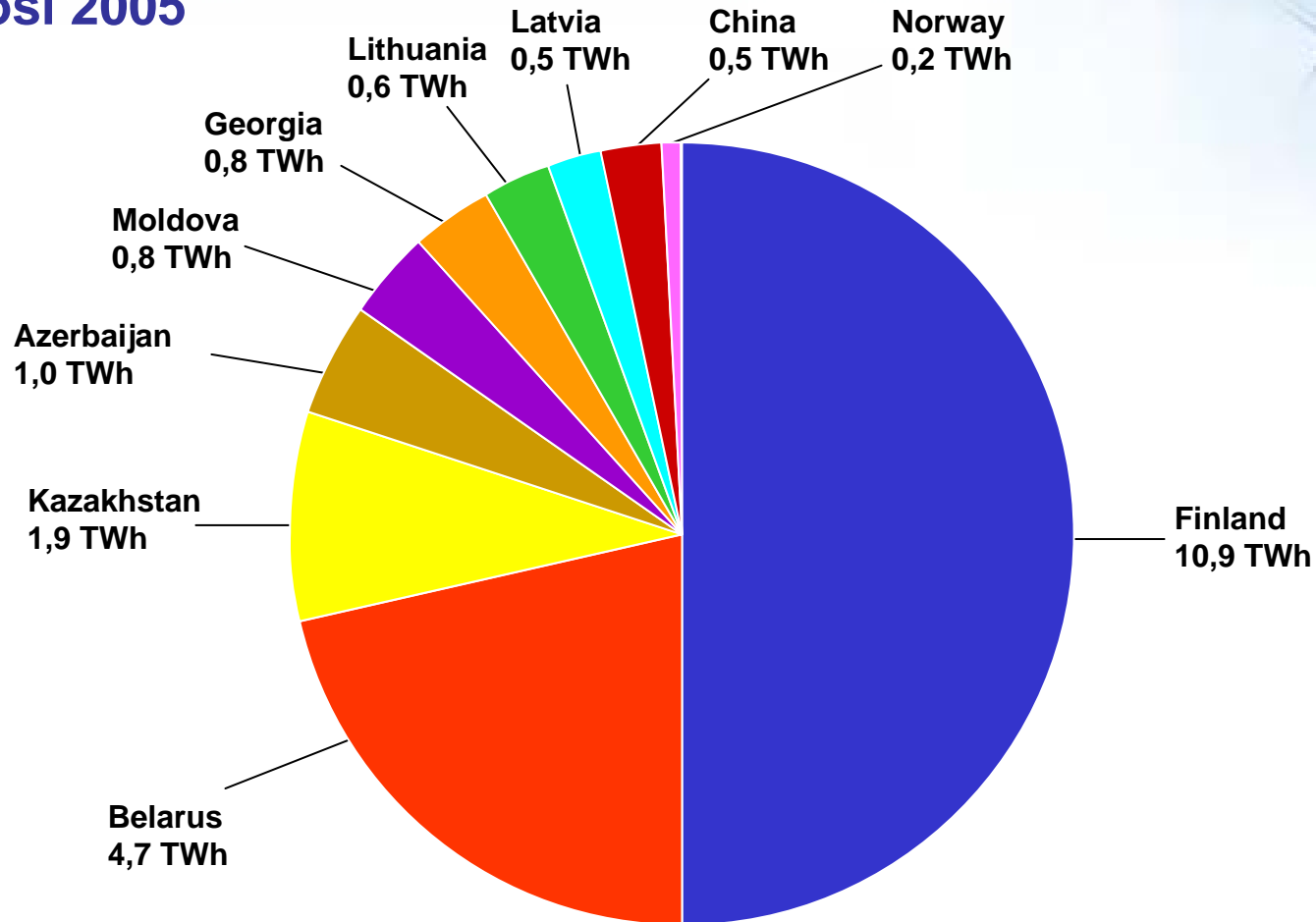


RU - FI 400 kV Cross-Border Trade

15 May 2007

Export from Russia

Vuosi 2005



Export 22.1 TWh in Total



Importers on Fingrid's 400 kV Russian Connections 2003 - 2007

Company	2003 MW	2004 MW	2005 MW	2006 MW	2007 MW	Country (Ownership)
EGL Nordic AS	-	-	200	-	-	Norway/ (o/s: Switzerland)
Fortum Oyj	300	300	300	300	400	Finland
Norsk Hydro ASA	300	-	200	-	-	Norway
OstElektra GmbH	-	100	100	100	100	Germany (o/s: Germany, Cyprus)
Pohjolan Voima Oy	400	400	-	-	-	Finland
RAO Nordic Oy	250	250	250	500	550	Finland (o/s: Russia)
RWE Trading GmbH	50	-	-	-	-	Germany
Scaent AB	-	250	250	250	250	Sweden (o/s: UK, British Virgin Islands)
Statkraft Energi AS	-	-	-	150	-	Norway
Total	1300	1300	1 300	1300	1300	

Company in the Media

> [Company News](#)

> [News of the Group](#)

> [Company in the Media](#)

from 09.10.2006 **Inter RAO UES shifts to import** , publication: NAUFOR, SKRIN Issuer
 RAO UES CEO Anatoly Chubais has sealed an order sanctioning the revision of export and import strategy of the holding...

RAO UES CEO Anatoly Chubais has sealed an order sanctioning the revision of export and import strategy of the holding. In winter, RAO intends to materially step up import of electric power from all states of the former Soviet Union, Kommersant reported.

The order sealed by Chubais provides for elaborating an entirely different strategy of import and export operations for the fourth quarter of this year and the first quarter of 2007. Having faced the consumption growth, the Unified Energy Systems (RAO UES) will be a net importer of electric power rather than a net exporter of it in winter of 2006/07.

Regardless, sources with RAO UES said the export of electric power could be curtailed in winter, while its import will go up materially.

To be more precise, Inter RAO is likely to import electric power from Ukraine (produced from the gas of Russia under the give-and-take contracts) as well as from Belarus, Moldova (Transdnistria), Kazakhstan (Ekibastuz), Latvia and Lithuania. What's more, the sources say the company stakes on deliveries from Azerbaijan and Georgia. In this case, the electric power will be shipped under the swap patters to the North Caucasus energy systems, first of all to Sochi.

<http://www.skrin.ru> (c) SKRIN, 1999-2003

Rajakapasiteetit ja siirrot

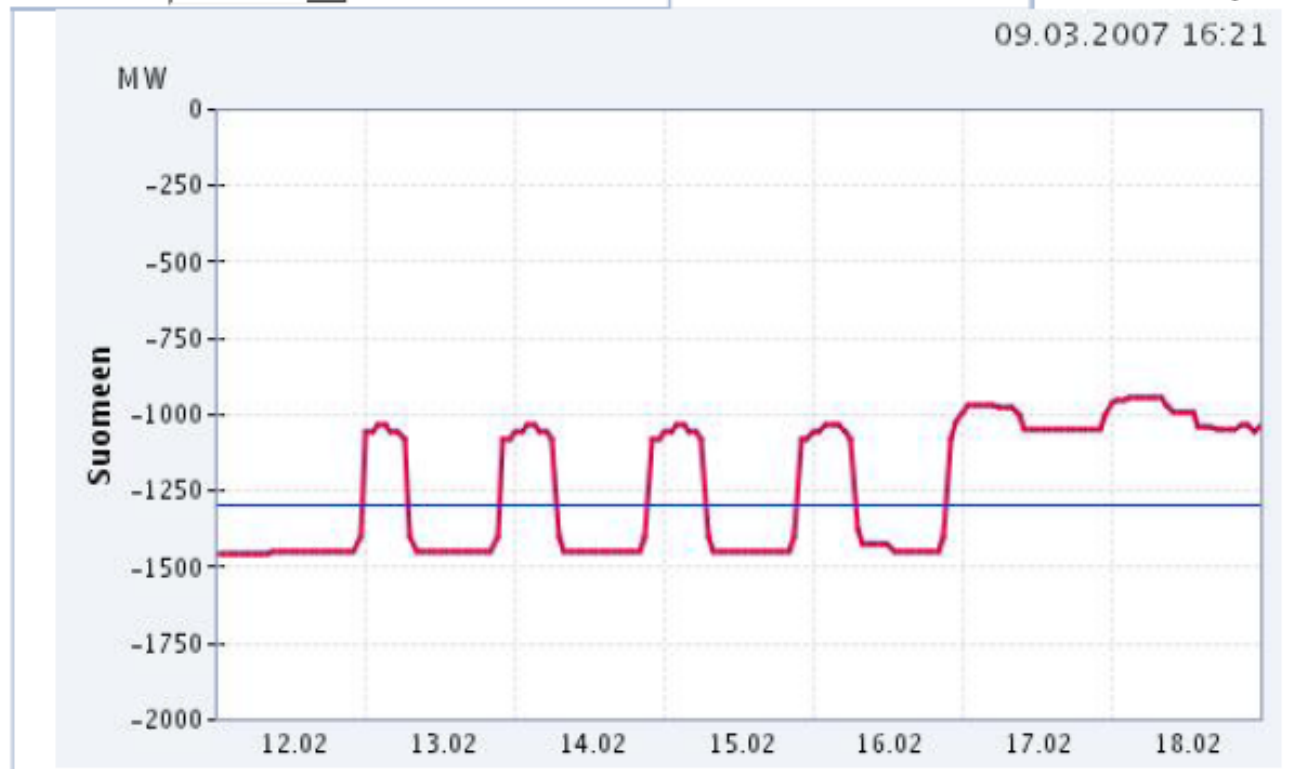
Kuvaaja Taulukko

Viikko : 7/2007

[Suomi ja Pohjoismaat](#)

Tuonti Venäjältä

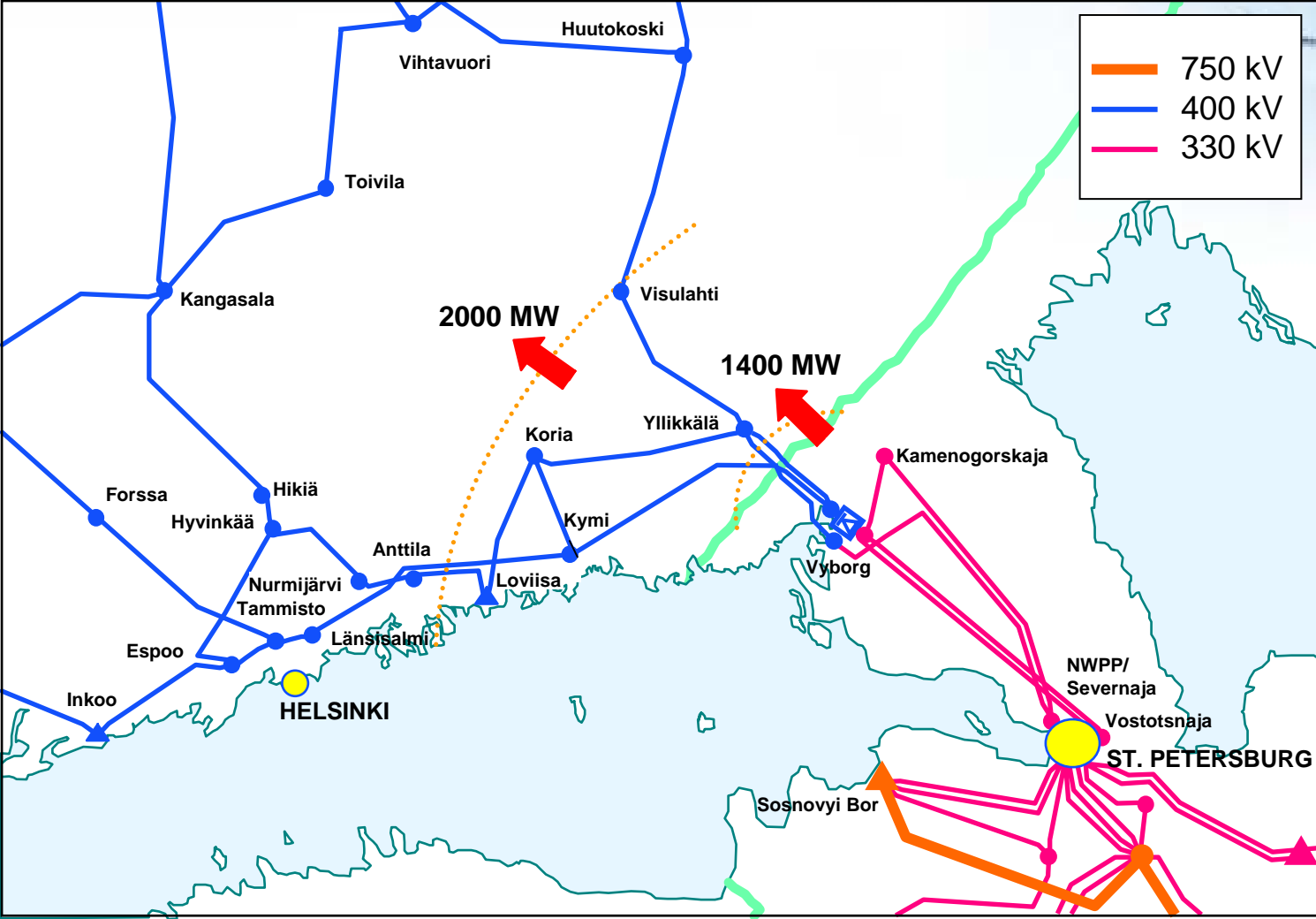
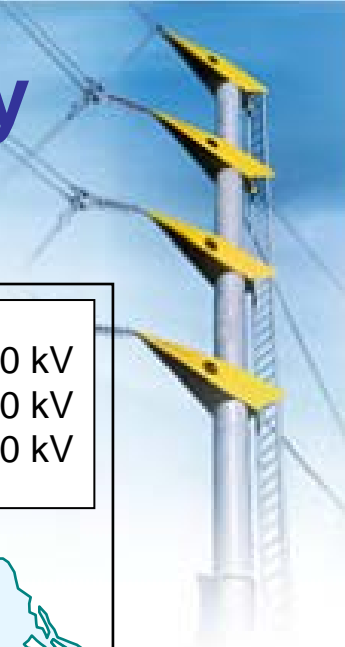
09.03.2007 16:21



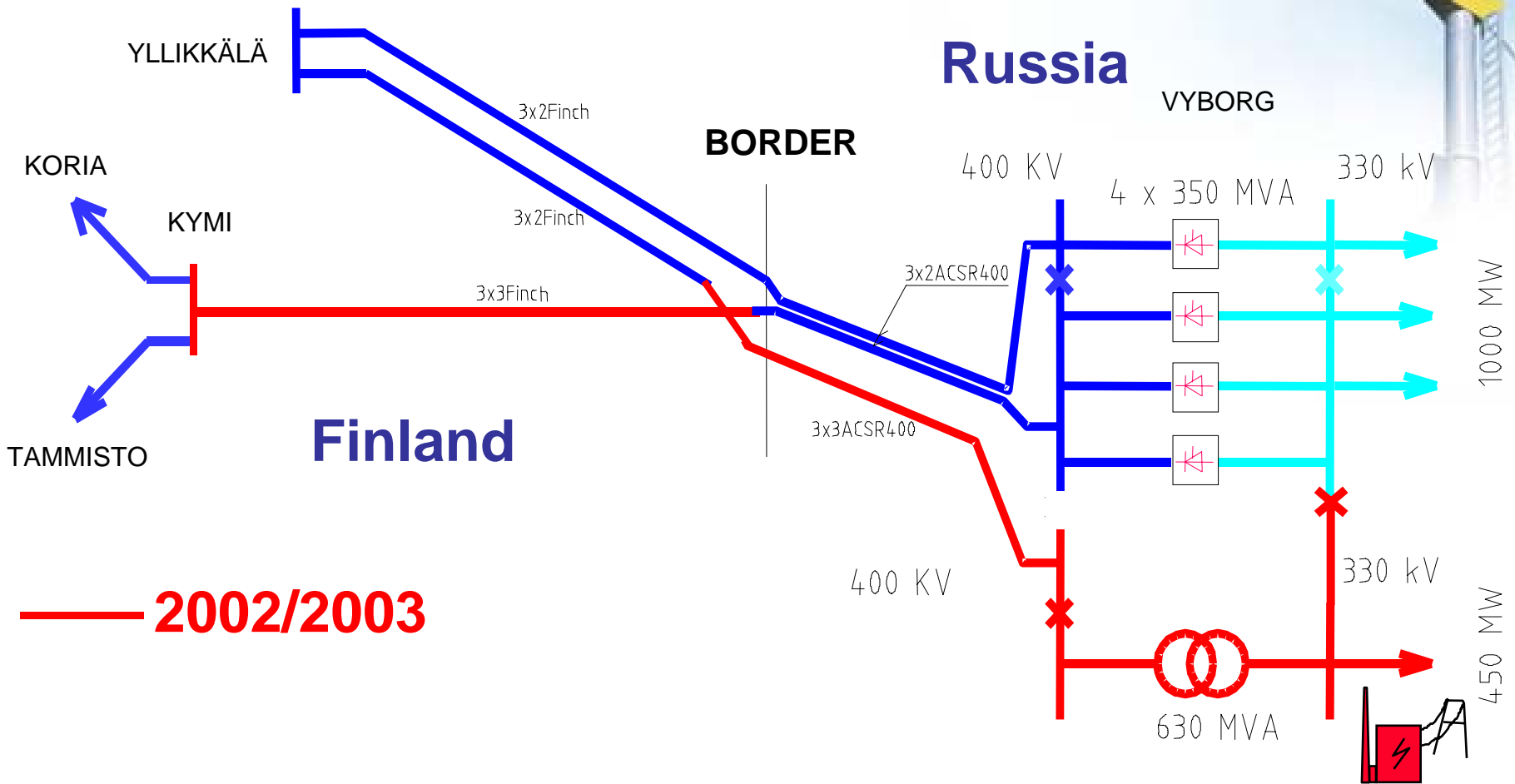
— Suunniteltu kapasiteetti 400 kV yhteyksillä

~ Kaupallinen siirto / Kaupallinen tuonti 400 kV ja 110 kV yhteyksillä

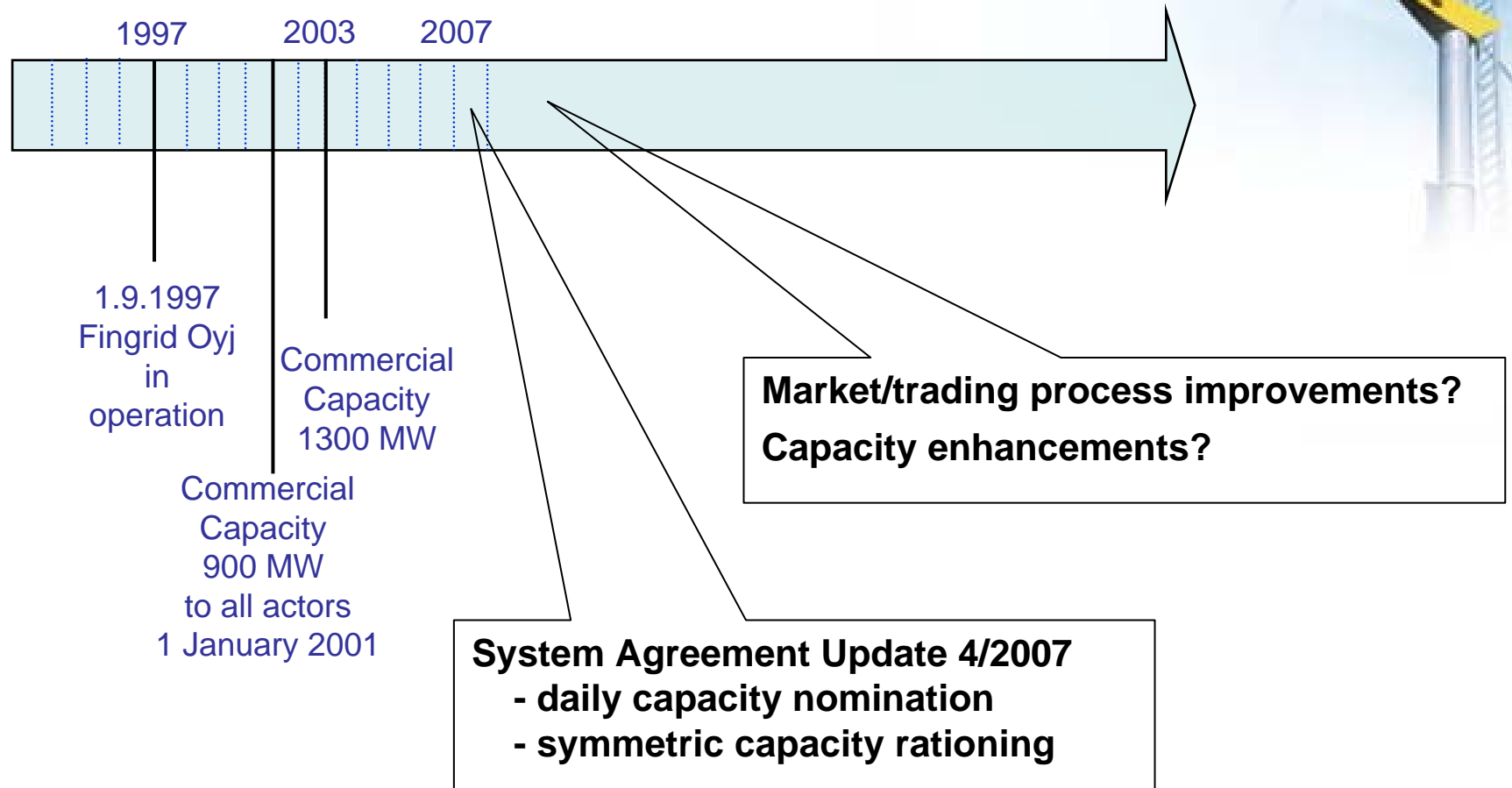
400 kV Transmission Capacity RUS - FIN



Principal Scheme of RUS - FIN 400 kV Transmission



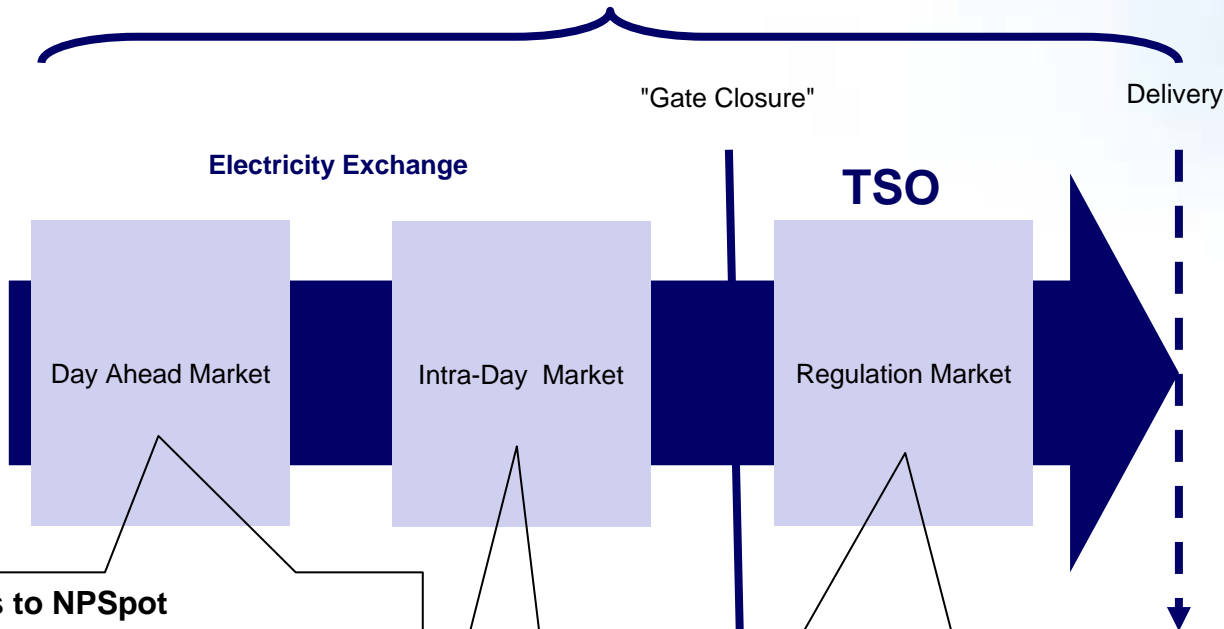
Prospects in RU- FI 400 kV Transmission



Current Practice:

- **Annual allocation fixed per importer purchase contracts**
- **Daily capacity nomination per load/generation estimate**
- **Trading bilaterally and/or bidding through NPSpot**
- **Capacity use not (tightly) price coupled**

Possible Step 1: Bidding onto Price Area Finland



- All imports as bids to NPSpot
 - solid, market based and transparent
 - price dependent flow vs. estimate
 - sound price reference

- Coordinated participation in "TSO markets"
 - physical reserves
 - up/down regulation
 - etc.

- Balancing at ELBAS -market
- Efficient capacity utilization

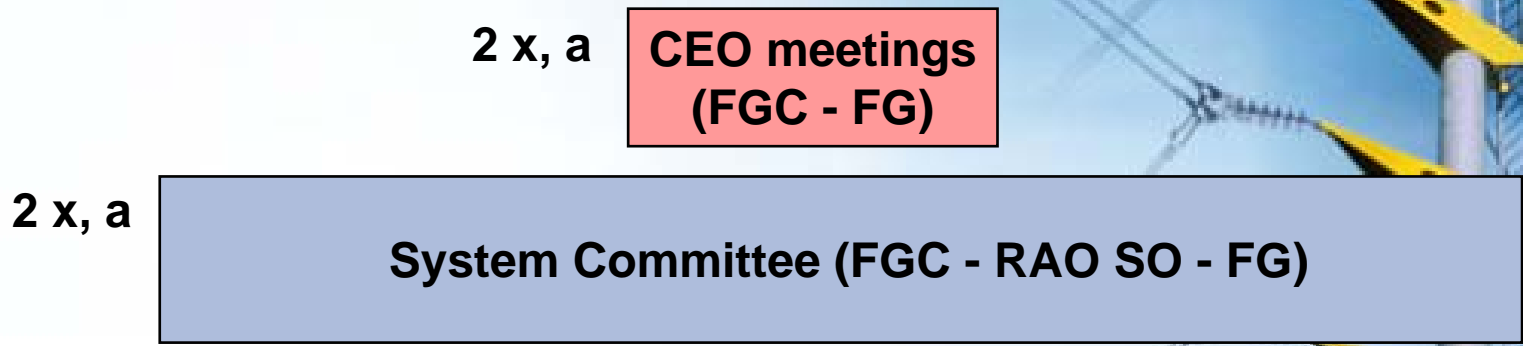
Tasks in hand:

- **Administrative:**
 - Task force mandates and person assignments
- **By 2008**
 - Revised System Agreement
 - Review of RU - FI C/B Capacity
 - Capacity Allocation Procedure & Annual Contracting
 - Daily Capacity Nomination Procedure
- **2009 & onward**
 - Stepwise Action Plan for further integration
 - Trading and Legal Framework

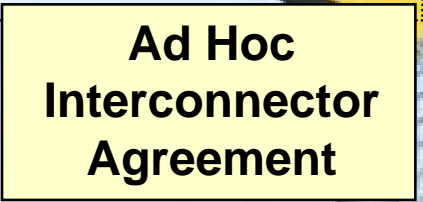
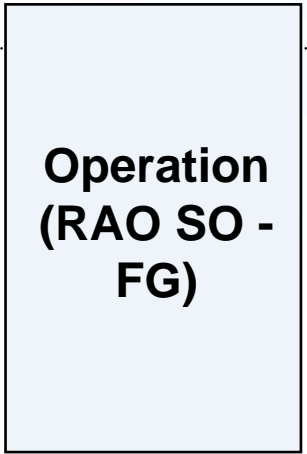
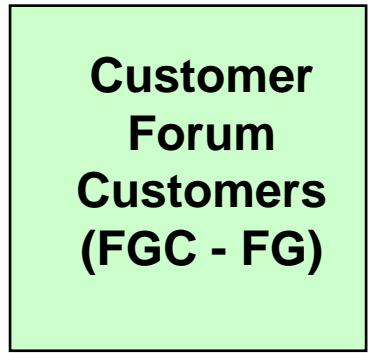
Development of Co-operation



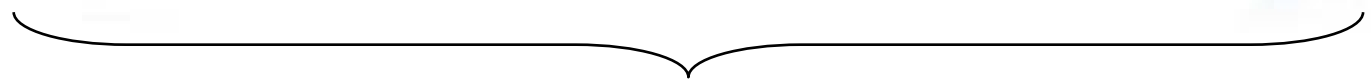
Present Model of Cooperation



Secretariat



1 x, a



Meetings as per individual action plans

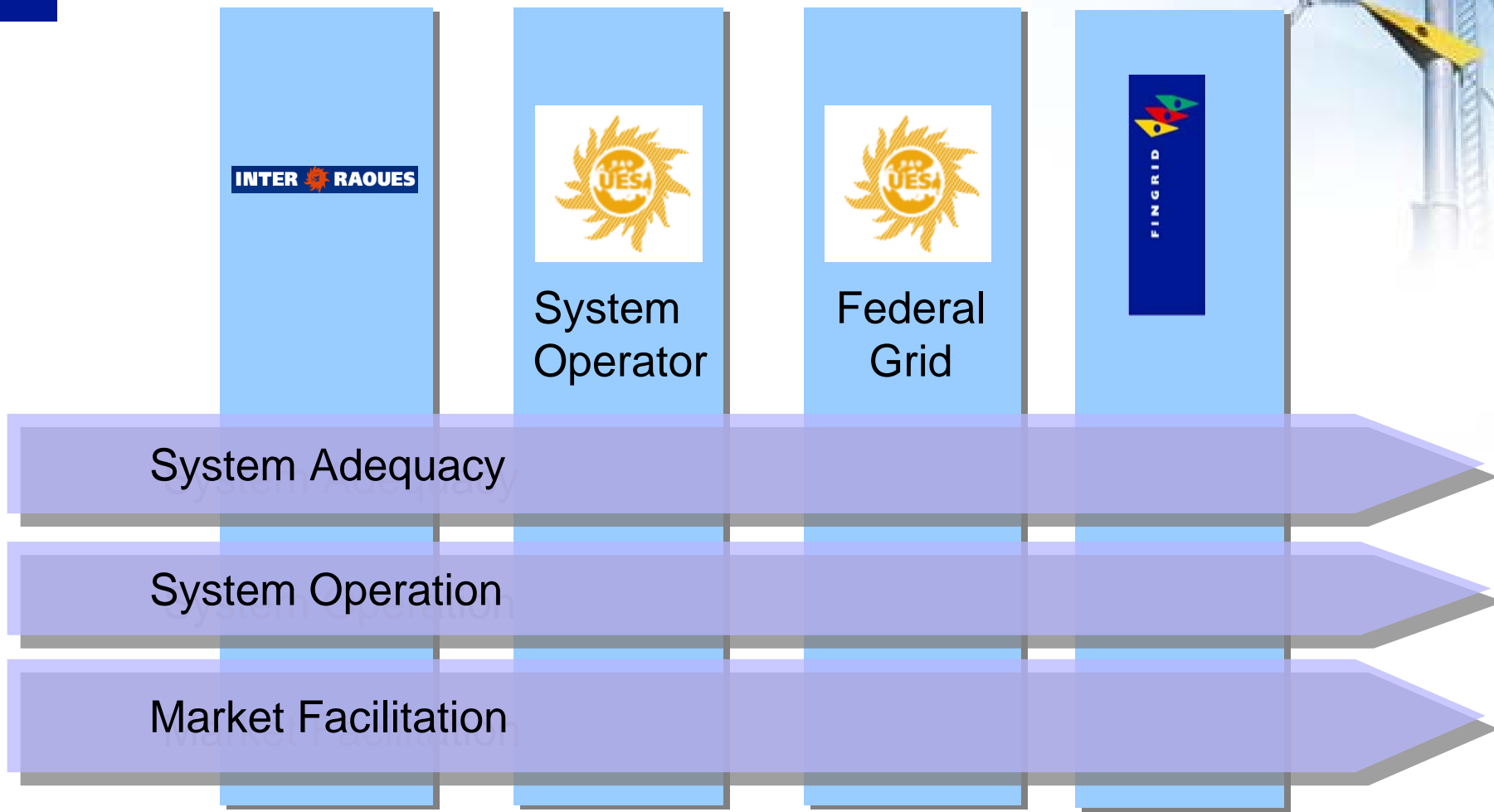
Generic TSO Main Processes

System Adequacy

System Operation

Market Facilitation

Case: RU - FI Cross-Border Capacity



Baltics:

- **Estonian TSO Põhivõrk - Finnish TSO Fingrid:**
 - Sound contractual framework (operation, system services etc.)
 - Solid operational co-operation
 - Operational responsibility of Estlink to Põhivõrk as of 1 July
- **Fingrid support to Baltic TSOs**
 - Long term grid planning
 - Balance and Market reviews/modelling
- **Estonia part of ETSO ITC system as of 1 June 2007**
- **By 2008**
 - Promote discussion on market integration
 - Introduce NPSpot access?

