Finnish-Russian transboundary water co-operation: experiences from 50 years

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Finland and Soviet Union in early 1960s: needs for joint management of transboundary waters

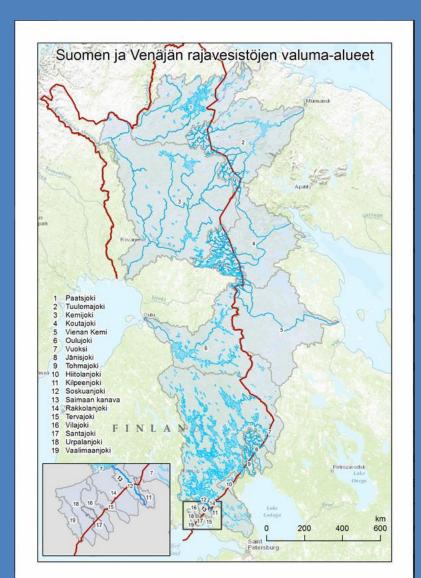
- Large water quality problems, hydropower regimes, flood management problems
- Common understanding of risks, benefits and costs
- One agreement: all transboundary rivers and lakes (>400, about 19 significant)



Signing ceremony in 1964

26.5.2017

Finland – Russia Transboundary Water Cooperation joint management in 19 rivers



252 United Nations - Treaty Series

1965

[TRANSLATION - TRADUCTION]

No. 7804. AGREEMENT BETWEEN THE REPUBLIC OF FIN-LAND AND THE UNION OF SOVIET SOCIALIST RE-PUBLICS CONCERNING FRONTIER WATERCOURSES. SIGNED AT HELSINKI, ON 24 APRIL 1964

The Government of the Republic of Finland and the Government of the Union of Soviet Socialist Republics, desiring to define the principles governing the use of the common frontier watercourses of Finland and the Soviet Union and to establish a régime for their use, have decided to conclude the present Agreement and have for this purpose appointed their Plenipotentiaries, who, having exchanged their full powers, found in good and due form, have agreed as follows:

CHAPTER I

GENERAL PROVISIONS

Article 1

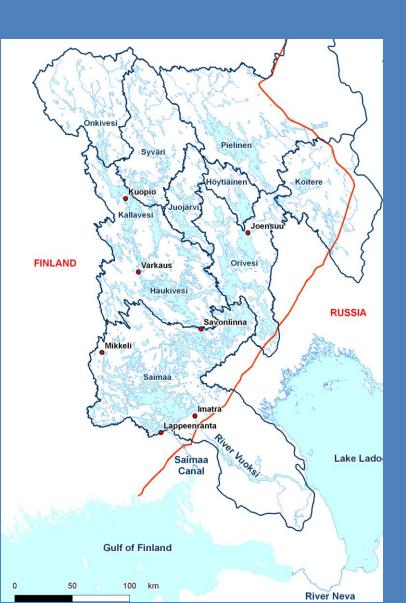
Finnish - Russian Agreement on the Utilisation of Transboundary Watercourses (1964)

- Regulations on impacts in neighbouring country
 - Water flow and structural measures
 - Floods and water scarcity
 - Timber floating and navigation
 - Fish migration
 - Pollution and water quality
 - Public health and economy
- Joint Finnish Russian Commission on the Utilisation of Transboundary Watercourses
 - Each Party: 3 members and deputies, experts, secretaries

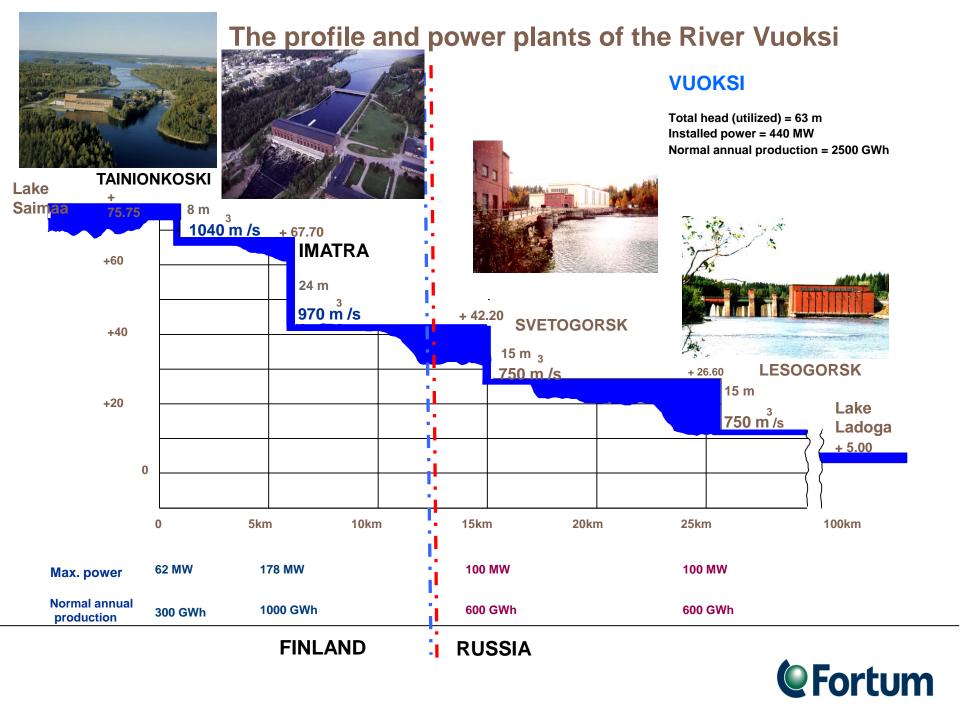
Institutional framework

- Joint Commission
 - Meetings once a year
- Working groups:
 - Water Protection
 - · Water quality monitoring
 - Monitoring of pressures, particularly waste waters
 - Intercalibration of laboratory analytics
 - Information exchange on planned measures
 - Intergrated water recources management
 - Discharge management
 - Flood control and flood management
 - Hydropower
 - Fish migration
 - Information exchange on planned measures
- No secretariat Requires high commitment by national authorities

The Lake Saimaa - River Vuoksi System



- Catchment 70 000 km²
 - Finland 77 %, Russia 23 %
- Lake Saimaa
 - surface 4 460 km²
 - precipitation ~ 600 mm/a
 - water level fluctuation 3,3 m, annual mean 0,7 m
- River Vuoksi natural discharge
 - mean 600 m³/s
 - max 1170 m³/s
 - $\min 220 \,\mathrm{m}^3/\mathrm{s}$

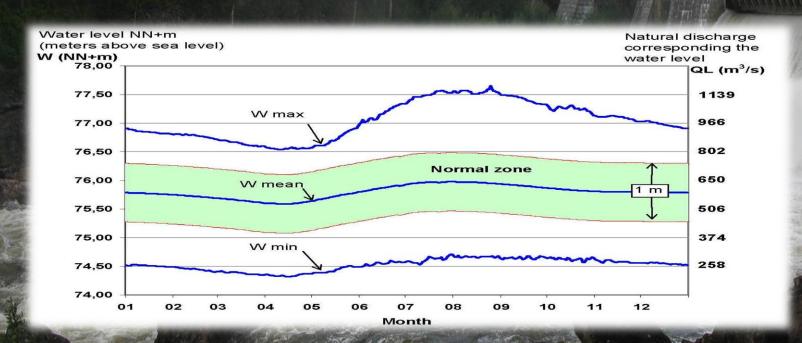


Lake Saimaa and River Vuoksi Discharge Rule

- Hydropower and flood risks main challenges at the starting point in 1970s
- Initiative of the Russian Party at the Joint Transboundary Commission 1973
- Development targets at the outset
 - Increase winter discharge and minimum flows in River
 Vuoksi
 - Prevent exceptionally high and low water levels in Lake
 Saimaa
 - Prevent exceptionally high and low flows in River Vuoksi
- First plan 1979 accepted by Joint Commission
- Jointly accepted 1989, implemented 1991

The Discharge Rule

- Natural water level and discharge in normal circumstances
- When water level forecast goes beyond normal zone discharge may be increased or reduced.
- Natural discharge resumed when flood or drought threat ceases

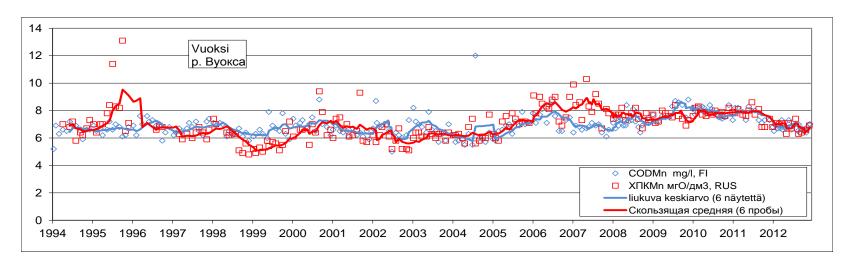


Vuoksi: A case of transboundary IWRM

- Main aim: to minimise adverse consequences in the river system as a whole
- Participatory approach during planning and implementation: involve stakeholders to identify their needs, problems and priorities
- Management of flood and drought risks in both countries
- Hydro power with calculations of Russian losses in high flow periods
- Potential compensation based on intergovernmental negotiations
- Also other uses and interests such as navigation and habitats of fish and endangered Saimaa seal being addressed

Water quality monitoring

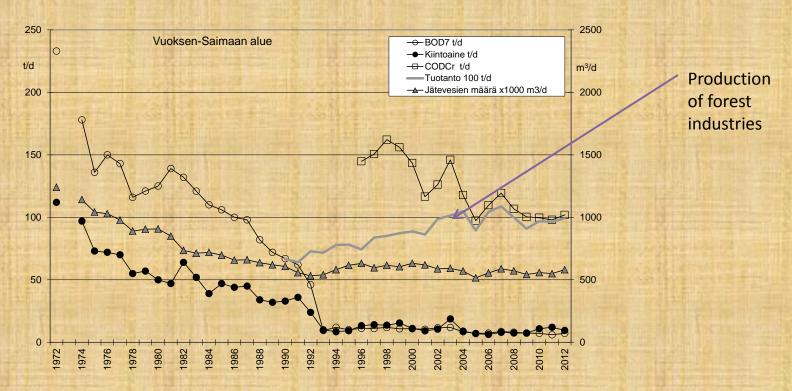
- Annual joint reports
- Water quality monitoring on both sides of the border



- Blue line and dots Finnish results
- Red line and red dots Russian results.

Pollution loads

- Joint report every year
- Pollution loads from the Finnish side to the Saimaa –
 Vuoksi system



26.5.2017

Challenges

- Climate change
 - Increased occurrence and variability of heavy precipitation and drought periods
 - Shorter snow period, more abundant autumn and winter floods, less severe spring floods
 - Alterations in ice conditions
 - Ice and snow cover essential for Saimaa seal nesting
- Forecasting and optimal flow control become crucial
 - -> real-time data and better forecasts on hydrology and meteorology
- New development: Risk management Programme
 - Aim: Optimisation of flow regulation taking into account all benefits and costs in both sides
- Improving river continuity for migratory fish

Potential role of Implementation Committee

- Cooperation between Finland and Russia (Soviet Union) has continued now more that 50 years – no amendments to original agreement
- During these years most of the common issues have been solved and joint management implemented
- There has been cases on which the Commission has not had a mandate - These issues has been solved via intergovernmental negotiations or new complementing agreements
- If such issues still arise, the governments of Finland and Russia will negotiate
- IC perhaps more helpful in early stages of cooperation

Finland - Russia Cooperation: Some General Observations

- Joint transboundary integrated water resources management is achievable even with two very different societies
- Survived cold war and collapse of Soviet Union
- Pragmatic, clear focus on finding joint management interests
- Reasonable and equitable use of shared natural resource
- Still seen as a good excersize by both Parties

