# Programme Hydropower Development in Georgia

Georgia, 14th-18th November 2016

Sunday 13th Arrival day

***Hand out of practical information folder at the hotel front desk?***

Monday 14th Topic: **Introduction to hydropower planning challenges**

09:00 Welcome to the course, Tom Solberg ICH. Program and practical matters,

09:15 Presentation of lecturers and participants

10.00 Course Introduction, briefing on course practicalities and objectives, *ICH and NVE*

10:30 Coffee

11:00 Brief description of hydropower in Georgia and the government’s challenges (Ministry representative)

12:30 ***Lunch***

13:30 Integrated Water Management. The Norwegian Experience. *Kjell Repp. NVE*

15.30 Similarities between the Georgian and Nordic power systems. Current hydropower development in the Nordic power system *(Brian Glover)*

16.30 Discussion on course objectives

17.00 End of Academic Day

19:30 ***Dinner***

Tuesday 15th Topic: **Planning and licensing Hydropower IPPs**

09:00 Planning hydropower development for meeting the regional power system needs – the role of Government *Brian Glover*.

11:00 Licensing process in Norway. *Kjell Repp, NVE*

12:30 ***Lunch***

13.30 Licensing process in Georgia (Ministry representative).

15.00 Private sector hydropower development: A consultant’s perspective. *Brian Glover*

16:15 Discussion on challenges for Georgia on licensing new hydro plants, *(Moderator Kjell)*

17:00 end of academic day

Wednesday 16th Topic: **Hydropower project planning and preparation**

09:00 Hydropower planning. Overview of components, principles and basic steps *(Brian Glover)*

11.00 Small Hydro planning in Norway and abroad *(Brian Glover)*

12:30 ***Lunch***

13.30 Water Management Associations in Norway and and WMAs, (*Kjell Repp)*

15.15 Planning of dams and reservoirs (*Brian Glover*).

17:00 End of academic day

Thursday 17th Topic: **Water management and environmental aspects**

09:00 EIA in the planning process. Environmental issues in Norway and the EU water framework directive*, (Brian Glover)*

11:00 Downstream impacts, dam safety and the authorities’ responsibilities *(Brian Glover)*

12:30 ***Lunch***

13.30 Group exercise- Case study on downstream impacts and environmental flows

16:00 End of academic day

Friday 18th Topic: **Costing, social impacts and conflict mitigation**

09:00 Project cost estimates. Which cost figures are used when and how to interpret the investor’s cost estimate, *Brian Glover* )

10:30 ***Coffee***

10.45 E&S Planning process (Dr. Stephen Sparkes, Statkraft)

11.15 E&S Project Preparation up to Construction (Dr. Stephen Sparkes)

13:00 ***Lunch***

14:00 Card activity and challenges of consultation and resettlement (Dr. Stephen Sparkes)

14.45 Benefit-sharing and achieving closure for social and environmental programs (Dr. Stephen Sparkes)

15.45 Questions and panel discussion (*Moderator- ICH) Panel members: 2 from Georgia, Kjell, Brian, Steven*

**17.00 end of course – depart for Tbilisi**