

Curriculum vitae

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TYPE OF EXPERTISE: Electric power engineering

(1) Family name: Sofienlund

(2) First names: Einar

(3) Date of birth: 01/06/1958(4) Passport holder of: Norway

(5) Education:



(5) Education	
Institution	Degree(s) or Diploma(s) obtained:
State College of Engineering (GIH), Gjøvik, Norway (1980)	B.Sc. Electrical Engineer, majoring in electric power and high-voltage engineering
Norwegian Institute of Technology (NTH), Trondheim, Norway (1991)	Basic, Technical and Socio-Economical Analysis
Norwegian Institute of Technology (NTH), Trondheim, Norway (1992)	Engineering Geology and Rock Mechanics for Hydropower Engineers
Norwegian Institute of Technology (NTH), Trondheim, Norway (1994)	Degree Professional Development Certificate (PDC)
Norwegian Institute of Technology (NTH), Trondheim, Norway (1994)	Engineering Hydrology for Hydropower Engineers
University of Business Administration (BI) (2002)	Contract Management

(6) Language skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
Norwegian	Mother tongue	Mother tongue	Mother tongue
English	1	1	1
German	3	3	3
French	5	5	5
Spanish	5	5	5

(7) Other training:

Year	Course Duration	
1983	Remote grid control systems for power networks (ABB and Siemens)	
1985	Presentation technique related to communication (NEBB)	
1986	Design of substations (Norwegian Society of Engineers)	
2016	Dam safety I	1 week
2018	Dam safety III	2 days
2018	VTA-responsible class 1	certification

(8) Membership of professional bodies:

Norwegian Association of Chartered Engineers (NIF – Tekna)

(9) Key qualifications:

Engaged within the field of electric power engineering throughout professional career with emphasis on planning, design and project management of power systems and hydro power plants. Project work includes project management, feasibility studies, cost estimates, conceptual design, detail design, co-ordination, cost control and finance of power projects. Project works also includes preparation of tender documents, tendering, tender evaluations, contract negotiations and signing. Extensive experience of project implementation and co-ordination as the Engineer according to FIDIC's definition with all aspects like preparation of time schedules, progress and cost mitigation and control towards budget and plans including reporting, site inspections and supervision of installations, commissioning including training and education of operating staff. Evaluation of least cost technical solutions for generating plants transmission systems and distribution systems.

(10) Positions:

1980-1989 Norwegian Electric & Brown Boveri (NEBB now ABB).

Design Engineer and project manager for several sizable hydropower projects in Norway, such as Sima 1200 MW, Aurland II 70 MW, Tjodan 110 MW, Naddvik 112 MW etc.

1989 – 2005 Norconsult AS, Consulting services for international projects.

Project manager with overall responsibility for screening and feasibility studies, procurement, tendering, evaluations and contract negotiations, Construction and supervision og energy projects worldwide. Spesific projects of interest may be mentioned: Buksefjorden Hydropower in Greenland, Pangue Hydropower in Chile, Kidatu hydropower in Tanzania, Pequenos Libombos Hydropower in Mozambique, Ubungo gas turbines in Tanzania, Janopol hydropower in Phillippines, 3 small hydropower projects in Pakistan, etc.

2005 – 2011 Einar Sofienlund ENK Independent consultant

Developer of self-owned and other projects in Norway, raging rom $50 - 10\,000$ kW. Services rendered comprises all stages of development from project screening, concept design, licence applications, detail design, financing, tendering, contract evaluations and negotiations, engineering, construction supervision, commissioning and project operations.

2011-present Norsk Kraft AS

Senior engineer responsible for overall project evaluations with respect to production simulations and development costs including conceptual design for a large number of projects ranging from 1 MW to 30 MW.

The independent part comprised development and construction og own small hydropower projects like Kjærnes 1000kW, Eidsland 1&2 1150kW, Nottveit 5500 kW, Segadal 3500kW, Vesla 3500kW, Kaldåga 1000kW etc.

(11) Country working experience:

Benin, Bosnia and Herzegovina, Central African Republic, Chile, Eastern Timor, Finland, Guatemala, Korea (DPRC), Kyrgyzstan, Malawi, Mozambique, Norway, Pakistan, Philippines, Sri Lanka, Tanzania, Uganda and Zambia

(11) Professional experience (selected):

Date from - to	Location	Company & reference person	Position	Description
1995 – 2005	Tanzania	TANESCO, Mr. BEAT Luhanga	Team leader	Total rehabilitation of a 200 MW hydropower project with 4 units
2003 – 2004	Mozambiqu e	Administracao Regional de Aguas, ARA-Sul	Team leader	Completion works of a hydropower plant
2000 – 2002	Zambia- Tanzania	66 kV Mbala – Sumbawanga. Mr. M.M. Fazal	Team leader	125 km interconnector powerline from Zambia to Tanzania
2001 – 2002	Bosnia and Herzegovina	Bocac Hydropower Ltd	Team leader	Rehabilitation of the plant after the war actions during the 90's
2000 -2001	Tanzania	TANECO, Mr. BEAT Luhanga	Team leader	Bahari Beach substation, Planning, tendering, contracting and construction of a 33/11kv substation
1999	Uganda	Uganda Electricity Board UEB, Mr Henry Bidasala	Electrical engineer	Review of NORAD's engagements in Uganda
1999 - 2002	Malawi	ESCOM,	Team leader	Lilongwe distribution reinforcement
1997	Bosnia and Herzegovina	International Finance Company (IFC), Mr. Garth Headly	Senior electrical engineer	Feasibility study for re-establishment of the high voltage manufacturing facilities in Sarajevo
1993 – 1997	Chile	Empresa Electrica en Pangue SA	Project engineer	Responsible for programming and planning for the logistics og constructing the hydropower plant including frequent reporting.
1993	Tanzania	TANESCO, Mr. Baldwin Msowoya	Electrica engineer	Dar es Salaam gas turbine project
1992 – 1993	Central America	Consejo de Electrification America Central (CEAC)	Asst. Team leader	Project co-ordinator for a broad range of sub-projects in order to improve the cooperation between the Central-American countries.
1990 – 1993	Greenland	Greenland Energy Board	Team member	Buksefjorden NUUK hydro-electric plant, responsible for QA/QC etc.
1990 – 1992	Philippines	National Electricity Authority (NEA), Mr.	Electrica engineer	Construction og Janopol hydropower project .