

Quosay Awad Ahmed

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Dr. Quosay Awad Ahmed is Assistant Professor at the Faculty of Engineering – UofK. He has held various positions in both public and private sectors. Besides lecturing, he serves as researcher and projects supervisor. Dr. Ahmed has studied and worked in different countries. He works also as national and international consultant for different institution, NGOs and firms. He is UNFCCC certified reviewer for GHG inventory reports, member of the editorial board of the Emission Factor Database and short-lived climate forcers of the Intergovernmental Panel for Climate Change (IPCC). His areas of interest and expertise are Energy, Transport, Climate Change, R&D - IOR/EOR, Decision and sensitivity analysis, Business planning and Environmental impacts and risk assessment.

Work Experience

University of Khartoum (www.uofk.edu)

▪ Lecturer and Assistant Professor	Faculty of Engineering	2008 – Present
▪ Managing Director	University of Khartoum Consultancy Corp.	2019 – 2022
▪ Managing and supervising multi-disciplinary teams for > 30 projects annually.	www.ukcc-sd.com	
▪ Head of Department	Petroleum and Natural Gas Engineering	2013- 2019
▪ Other positions at the University of Khartoum:		
▪ Lecturer for under and post graduate levels for reservoir and production engineering courses, such as: Natural Gas Engineering, Production Engineering I, Production Engineering II, Reservoir fluids properties, Thermal Oil recovery methods, Surface production facilities, Multi phase flow in pipes and others		
▪ Petroleum engineering Master program coordinator		
▪ Business Development - TECHNOPOLE UNIT for Business incubation – University of Khartoum		
▪ Principal investigator or research supervisor		
▪ Project coordinator for different studies and research projects		
▪ Head/Member of different committees and boards		

Consultant:- UNDP, UKCC, UNIDO, UNEP, HCENR, Ministry of Petroleum & Gas, Different Operating Co. s, Service Co.s, ...etc

- 1- **Environment and Climate Change:**
 - *Inventory of GHG emissions - Energy Sector Specialist*
 - *Modeling of GHG mitigation measures*
 - *Nationally Appropriate Mitigation Actions*
 - *Capacity Building and MRV*
 - *Environmental and Social Impacts Assessment*
- 2- **Energy and Petroleum:**
 - *Renewable Energy - Planning and Modeling*
 - *Petroleum production technology*
 - *IOR/EOR*
 - *Modeling – simulation*
 - *Energy Audit*
 - *Transport*
- **Projects and studies:**
 - 1- **National Consultant** for Capacity Building in CBIT Sudan project, HCENR (2022)
 - 2- **Team member:** upstream assets evaluation for Sharif Petroleum Operating Co. project, UKCC (2022)
 - 3- **National Consultant:** Terminal Evaluation of the Solar Water Pump Project, UNDP (2022)
 - 4- **Energy Consultant:** " Resilience of agropastoral populations in eastern Sudan", UNIDO (2022)
 - 5- **Team member:** "Technical Assistance to Ministry of Finance and Economic Planning – Modeling and capacity building for Climate Change Impact, Mitigation and adaption " WRI & NDC Partnership – UKCC, (2021-2022)

- 6- **Consultant:** “MRV System for Energy and Transport Sectors- Initiative Climate Change Transparency” UNEP-CCC, (2021-2022)
- 7- **Team member:** “Revision of the Pre- Feasibility Study for Saudi Poly-Chem Project” Esnad-elrwad Co. Ltd., (2021)
- 8- **National Consultant:** “Sudan’s Capacity Building Initiative for Transparency” project proposal preparation according to GEF-UNDP template (2021)
- 9- **Supervisor:** Assets register and management for Khartoum Refinery Co. , UKCC (2021)
- 10- **Team Leader:** Sudan National Greenhouse Gases (GHG) Inventory Report (2020-2021)
- 11- **National Consultant:** Preparation of Joint Program Document for “Solar Revolution for Transforming Lives in the White Nile and Kassala states of Sudan through a National Solar Fund Scheme” SDG Fund, UNDP Sudan- (2020)
- 12- **Project Supervisor:** ESIA for Alternative fuel source (SRF) , AL Shamal Cement Factory, UKCC, 2021
- 13- **Project Supervisor:** Environmental Exit Assessment – Greater Nile Petroleum Operating Company , UKCC 2019-202
- 14- **Team Leader:** Research project in GHG emissions baseline from road transport sector in Sudan – estimation of country specific emission factor, funded by Higher Council of Environment and Natural Resources (HCENR) -3rd National Communication Project (2019- 2021)
- 15- **Project Supervisor:** Capacity building needs assessment for Ministry of Justice – Republic of Sudan, DT Global- UKCC, 2020
- 16- **Project Supervisor:** Environmental exit assessment for Greater Nile Petroleum Operating Co. ; UKCC - 2020
- 17- **Consultant:** Green Climate Fund (GCF) - Concept Note for “Community based waste management system” – Sudanese Environmental Protection Society, 2019-2020.
- 18- **Technical team Leader:** Integrated Management Approach for Fuel Shortage in Sudan (Transport Sector)- research project – Ministry of Higher Education- Sudan, (2019).
- 19- **Consultant:** Technical and Economic Feasibility for the Replacement of Diesel Water Pumps with Solar Water Pumps in Different States in Sudan – Solar Water Pump project- MWREI (2019).
- 20- **National Consultant:** National circumstances and institutional arrangements for the national communication and biennial update report of Sudan, HCENR/UNDP- 2019
- 21- **Technical Team Leader :** Environmental and Social Impact Assessment for “Red Sea LNG Floating Solution Facilities and Port Sudan NG Pipeline” – SUNAGAS - UKCC (2018- 2019)
- 22- **Project Manager:** technical study of “ provision of diesel fuel unit (DFU) crude assay analysis for feasibility study” – 2B OPCO operating company (2018)
- 23- **National Consultant:** “Building institutional and technical capacity of Sudan’s for transparency related activities under the UNFCCC and the Paris Agreement” – PIF GEF, HCENR/UNDP (2017-2018)
- 24- **National Consultant :** “Development of feed in tariff NAMA policy for a Utility Scale Power Generation from Wind Energy” – Ministry of Water Resources, Irrigation and Electricity, Khartoum, Sudan (2017-2019)
- 25- **Resource Person – National Expert of IPCC Inventory Software 2006:** “Sudan’s GHG inventory for the third national communication – Energy Sector” , HCENR (2016-2019)
- 26- **Project Manager:** “Seepage study for PetroEnergy E&P evaporation ponds in Central Processing Facilities and number of Field Processing Facilities – UofK (April- Dec. 2017)
- 27- **Chief Consultant:** Well stimulation – matrix acidizing for GNPOC (Laboratory analysis, candidate selection, modeling and field trial) – National Upstream Solutions Co. (2017- 2018)
- 28- **Co- Principal Investigator:** Guar and Arabic Gums Properties Improvement for Potential Use in EOR & Sand Control in Sudanese Oil Fields, Energy Research Center-UofK and **Ministry of Petroleum and Gas-** Sudan, (2015 to 2018)
- 29- **Consultant –Losses and emissions estimation from venting and flaring:** Energy Auditing and Benchmarking Study for **El-obayid Refinery**, Energy Research Center-UofK and Ministry of Petroleum & Gas, (2015)
- 30- **Consultant – Emissions estimation from venting and flaring:** Energy Auditing and Benchmarking Study for Khartoum Refinery, Ministry of Petroleum and Gas, Khartoum, (2014)
- 31- **Team member:** Promoting Low Carbon Development Project: Nationally Appropriate Mitigation Actions (Energy Sector), HCENR (2013 to 2014).
- 32- **Team member:** Impacts of climate change on Sudanese Oil and Gas industry, Ministry of Petroleum, PetroEnergy E&P and UofK, Khartoum –Sudan (2013)
- 33- **Researcher:** Monte Carlo Simulation for Hydraulic fracturing design in shale gas –, Krakow, Poland (2012 to 2013)

34- **Consultant:** Modeling of Sudan's energy situation and forecast using LEAP software, Sudan's Second National Communication Project, HCENR (2010 to 2012)

35- **Co-Principal Investigator:** Laboratory evaluation of x-linked polymer for sand consolidation-, UofK, Sudan (2009 to 2011)

36- **Researcher:** Rheological modeling for Nile Blend laboratory testing data in the research project of: Restartability of GNPOC pipeline (2008-2010)

Academic Supervisor: Graduation projects, research papers and master thesis – University of Khartoum, Sudan University of Science and Technology (2008- present)

Other positions:

- Consultant UNIDO Sudan, 2022
- Consultant UNDP-Sudan Sudan, 2020 - present
- Founder and Director Estidama Center for Energy and Mining Studies Sudan, 2012- 2019
www.estidamatc.net
- Director PetroEdge Service Co. Ltd. Sudan/South Sudan, 2009-2012
- Business Development Manager SDE Energy Norway, 2007-2008
- Project Manager Sustainable Development Enterprise Norway, 2006
- Simulation Engineer (Water Shutoff specialist) IOR Chemco AS China, 2004-2005
- Process Engineer- Internship STATOIL AS
- Interpreter and administrator Sudanese Embassy
- Sales Engineer DAL Engineering www.dalgroup.com Sudan, 2003-2004
- Co founder for many SMEs: PE Solutions, NORLYS for Trading and Contracting, OMAC for Integrated Services, SDE Market Research Unit, TRS Co. Ltd., Mosaic for Technology and Innovations and HEED Co. Ltd.

Education and professional qualifications

- 1- **Degrees:** PhD, MSc and BSc. Petroleum Engineering
 - *BS.c. China University of Petroleum- Beijing, China;*
 - *MS.c University of Stavanger- Norway;*
 - *PhD University of Khartoum- Sudan-Research Fellowship, AGH University of Science and Technology-Poland;*
- 2- **Diplomas**
 - *Chinese language proficiency Test (HSK)- Beijing, China (1998-1999)*
 - *Certificate of proficiency in translation (English/Arabic)- Africa International University (2002-2003)*
 - *Diplomas from GHG Management Institute:*
 - *UNFCCC Basic Course for the Review of Annex I Party Greenhouse Gas Inventories*
 - *Review of energy sector in GHG inventory report: Fuel combustion and fugitive's emissions*
 - *Application of Adjustment*
 - *National Systems for GHG inventory*
 - *Review of National Registries and information on Assigned Amounts*
 - *General and cross-cutting aspects of review of national communications and BR*
 - *Technical review of greenhouse gas emissions, emission trends, projections and the total effect of policies and measures*
 - *Fine Art student in Khartoum Art Center (Dec.2016 to Sep.2019)*

3- Training, Workshops and Conferences

The 20 th Editorial Board Meeting for the IPCC Emission factor database – Energy Sector	IPCC	Bilbao, Spain July. 2022
From vision to GCF concept	CTCN	Khartoum, Sudan May-June, 2021
Reducing Methane Emissions from the Oil and Gas Sector	OfD – UNEP	Webinar Series May-Dec, 2020
The 17 th Editorial Board Meeting for the IPCC Emission factor database – Energy Sector	IPCC	Osaka, Japan Nov. 2019
Validation workshop of NAMA – FiT for wind energy project	MWRIE	Khartoum, Sudan Feb. 2019
Capacity building workshops for Green Climate Fund (GCF) – Readiness Project	HCENR	Elgadarif & Madni, Sudan Dec. 2018

5 th International Conference on Oil&Gas Eng. and Technology (ICOGET 2018)	Universiti Teknologi PETRONAS	Kuala Lumpur, Malaysia Aug.2018
Mitigation of Climate Change- IPCC Outreach event	MoHE & IPCC	Khartoum, <i>Sudan</i> Aug., 2018
Symposium of national scientific research outcomes- utilization of indigenous gums in EOR and Sand Control	Ministry of Higher Education	Khartoum, <i>Sudan</i> July, 2018
Experts Meeting for Short-lived Climate Forcers	IPCC- WMO	Geneva, <i>Switzerland</i> May,2018
Final workshop of the joint research project of Guar and Arabic Gum properties improvement and use in EOR and sand control	Ministry of Petroleum and Gas	Khartoum, <i>Sudan</i> March, 2018
Africa Regional Workshop on Air Emissions and Climate Change Issues in the Oil and Gas Sector	Oil for Development and UNEP	Nairobi, <i>Kenya</i> Dec.2017
Abu Dhabi International Petroleum Exhibition & Conference	SPE, MoPG	AbuDhabi, <i>UAE</i> Dec.2017
Measurement and Evaluation training course	UofK Centre for Advanced Training	Khartoum, <i>Sudan</i> Nov.2017
Academic Counselling training course	UofK Centre for Advanced Training	Khartoum, <i>Sudan</i> Oct. 2017
Hands-on training workshop on the preparation and reporting of mitigation actions for the Africa Region	UNEP/UNFCCC	Pretoria, <i>South Africa</i> Aug. 2017
Principles of Geographical Information System (GIS)	UofK	Khartoum, <i>Sudan</i> , May,2017
IPCC 2006 GHG Inventory guidelines and software	UNFCCC	Swakopmund, <i>Namibia</i> , April, 2017
Sudan's Third National Communications- Uncertainty Analysis in GHG inventory	HCENR	Khartoum, <i>Sudan</i> , Jan. 2017
Entrepreneurship Development & Incubation Management Systems	UNIDO- UofK	Khartoum, <i>Sudan</i> , Oct.2016
Stress Management Training Course	University of Khartoum	Khartoum, <i>Sudan</i> , April, 2016
Centralized review of second biennial report of developed country parties	UNFCCC	Bonn, <i>Germany</i> , March 2016
Decision Making Techniques in Petroleum Industry	Energy Research Centre	UofK, <i>Sudan</i> , Feb, 2016
Africa Regional Workshop on the Building of Sustainable National Greenhouse Gas Inventory Management Systems	UNFCCC	Windhoek, <i>Namibia</i> , Oct. 2015
Technical Workshop on INDCs for Anglophone & Lusophone African Countries	UNDP and International Partnership	Entebbe, <i>Uganda</i> , Sep. 2015
NAMA framework workshop	HCENR and Perspectives Climate Change	Khartoum, <i>Sudan</i> , Jan. 2015
Expert review of GHG Inventory Submission for Annex I countries	UNFCCC	Bonn, <i>Germany</i> , Nov. 2014
Climate Change Diplomacy and Negotiation	UNEP and HCENR	Khartoum, <i>Sudan</i> , May 2014
Hands-on training workshop for the Africa region on the use of the non-Annex I GHG inventory software	UNFCCC	Libreville, <i>Gabon</i> , March 2014
HSE in Mining Activities – Case Studies	Ministry of Minerals and ESTIDAMA	Khartoum, <i>Sudan</i> , Feb. 2014
Low Carbon Development Strategy Workshop	Ministry of Environment- HCENR and UNDP	Khartoum, <i>Sudan</i> , Jan. 2014
Basics of Scientific Research Training Course	University of Khartoum	Khartoum, <i>Sudan</i> , Oct. 2013
UNESCO-AGH Chair Workshop on Innovation and Technology Transfer to Emerging Countries	UNESCO	Krakow, <i>Poland</i> January 2013
26th Scientific Conference on Trends in the Development of Heavy Duty Machines	AGH University of Science and Technology	Zakopane, <i>Poland</i> , Jan. 2013

Australia-Africa MRV expert's dialogue	Australian Dept. of Climate Change	Canberra, <i>Australia</i> Dec. 2012
UNESCO Interregional Engineering Conference in Technology and Education	UNESCO and AGH University	Krakow, <i>Poland</i> Dec. 2012
Hands-on training workshop for Africa region on GHG Mitigation Assessment	UNFCCC	Accra, <i>Ghana</i> , Sep. 2012
Sudan's Energy Situation Workshop	National Congress	Khartoum, <i>Sudan</i> , April 2012
Second National Communication Project, Final Workshop	Higher Council for Environment & Natural Resources(HCENR)	Khartoum, <i>Sudan</i> , April 2012
North Africa Technical Conference	Society of Petroleum Engineers (SPE)	Cairo, <i>Egypt</i> , Jan. 2012
Advance Microsoft Excel training course	University of Khartoum	Khartoum, <i>Sudan</i> , Oct. 2011
Accreditation and Self-evaluation in Engineering Education	University of Khartoum	Khartoum, <i>Sudan</i> , Jan. 2011
Training workshop on using LEAP for Climate Change Mitigation Assessment	NCSP, UNDP and SEI	Cotonou, <i>Benin</i> , Sep. 2010
Greenhouse Gases Mitigation Measures	UNDP & HCENR	Khartoum, <i>Sudan</i> , Mar. 2010
SPE North Africa Technical Conference	Society of Petroleum Engineers (SPE)	Cairo, <i>Egypt</i> , Feb. 2010
Oilfield produced water shut off workshop	Society of Petroleum Engineers (SPE)	Pointe Noire, <i>Congo</i> June, 2008
Advanced Parallel Thinking Training	STATOIL	Stavanger, <i>Norway</i> , July 2006
Compaction and Paving Technologies	DYNAPAC Int. High Comp Centre	Karlskrona, <i>Sweden</i> Sep. 2004
Automotive Sales Skills	Cambridge International training	Khartoum, <i>Sudan</i> July 2004
Caterpillar Diesel Engine, Transmission system and Machines Hydraulic System	DAL GROUP- Caterpillar	Wadmadani, <i>Sudan</i> June 2004
The Motivational Selling Workshop	International Brain Power Institute	Khartoum, <i>Sudan</i> , Feb. 2003
Oilfield Training	Zhong Yuan Oilfield	BoYang, <i>China</i> , Aug. 2001

Publications:

- 1- **Quosay A. Ahmed**, Amr Nasradin, Yassir Fadul, "Projection of Sudan Energy Mix" International New Energy and Energy Conservation Technology Conference, 2022
- 2- **Quosay A.A.** and D. Knez, "Sensitivity Analysis on Fracturing Pressure Using Monte Carlo Simulation Technique" Reservoir Engineering - OIL GAS European Magazine, 0179-3187/16/ ©2016 EID EnergieInformationsdienst GmbH
- 3- **Quosay Awad Ahmed**, SPE, University of Khartoum, "Chemical Injection in Multilayered Reservoir that have Different Rock Properties and Pore Pressures" presented in the SPE North Africa Technical Conference and Exhibition held in Cairo, Egypt, 2012, SPE-149965.
- 4- **Quosay Awad**; Haridi, Mohamed G.; Yousif, Yousif Ibrahim; Babiker, Almuez B. "A Mathematical Model to Predict Hydraulic Fracture Geometry in Shale Gas Formation", Presented in the Annual Conference -Basic Sciences and Engineering – University of Khartoum Engineering Journal Vol7-No2,ISSN: 1858-6333.
- 5- **Quosay A. Ahmed** and ChabilalDhital, "Decision Making Strategies for Engineering Design, Energy Consumption and Emission Mitigation –Hybrid Vehicle Versus Ice Vehicles" presented in the 26th Scientific Conference on Trends in the Development of Heavy Duty Machines, January 27-31. 2013, Zakopane, Poland
- 6- **Quosay A. Ahmed**, DariuszKnez, Jan Ziaja "Hydraulic fracturing: New uncertainty based modeling approach for process design using Monte Carlo simulation technique" PLOS ONE 15(7): e0236726, 2020
- 7- **Quosay Awad**, Abdelhalim Ibrahim, Ramzi Salah and Ahmed Bakheet "Risk Analysis And Decision Making In Relative Permeability Modifier Water Shut-Off Treatment", SPE North Africa Technical Conference and Exhibition, Cairo, Egypt, 14–17 February 2010, SPE 126845.

- 8- Ali A. Rabah, Hassan B. Nimir, K. R. Dout and **Quosay A. Ahmed** “Modelling of Sudan’s Energy Supply, Transformation, and Demand” Energy Research Center, University of Khartoum; Journal of Energy Volume (2016), Article ID 5082678, 14 pages
- 9- Mawahib Ahmed, Asia Adlan Mohamed and **Quosay Ahmed** “Proposed scenarios for reduction of household energy consumptionas a sustainable way forward in the Gulf region” 2019 Gulf Research Meeting , University of Cambridge, July- 2019
- 10- Hassan B. Nimir and **Quosay A. Ahmed**, Dept. of Petroleum Engineering, UofK, “STUDY OF RESTARTABILITY OF GNPOC CRUDE OIL PIPELINE – RHEOLOGY ANALYSIS” Graduate Studies & Scientific Research Conference April, 2010 and ICIPE-KL Malaysia
- 11- **Quosay A. Ahmed** and Kjell Markman, IOR Chemco AS “Emulsified blocking gel Water Shut off Treatment: screening & design” SPE Produced Water Management Workshop, Pointe Noire, Congo June, 2008
- 12- Ali A. Rabah, H. B. Nimir, Kamal R. Dout and **Quosay A. Ahmed** “Forecasting and Mitigation Measures of Gasoline Demand in Sudan” Energy Research Center, University of Khartoum; ICASTOR Journal of Engineering Vol. 9, No.3 (2016) 171 -183
- 13- Hassan B. Nimir and **Quosay A. Ahmed**, Faculty of Engineering – UofK “Scientific Research in Oil & Gas Industry: Produced Water Management”, Presented in Summit of Innovation and Scientific Research-Friendship hall, Khartoum, 2008.
- 14- Hassan B. Nimir and **Quosay A. Ahmed**, “Sand Consolidation by crosslinked Guar-gum “Sudan Oil and Gas magazine , issue no.3, Khartoum, Sudan Dec. 2011
- 15- Mohammed Ayoub, Goh Shien, DiabDiab and **Quosay Ahmed** “Modeling of Drilling Rate of Penetration using Adaptive Neuro-Fuzzy Inference System” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 22 (2017) pp. 12880-12891.
- 16- **Quosay A. Ahmed**, et al “Application of Variance Based Sensitivity Analysis in Modeling Oil Well Productivity and Injectivity” Journal of Petroleum Exploration and Production Technology, 2019.
- 17- **Quosay A. Ahmed**, et al. “Evaluation of Seepage from Evaporation Ponds of Produced Water in Some Sudanese Oilfields” Paper no. 131 - CCE2018 conference, Khartoum, Sudan
- 18- Rana M., Shimma A. Mustafa and **Quosay A. Ahmed** “Fuel Consumption and Greenhouse Gas Emissions from Sudan's Road Transport” has been accepted for the Future Energy Africa 2018 – Centres of Technical Excellence Seminar (COTES)-South Africa.
- 19- Motaz Saeed, **Quosay A. Ahmed** and Prashant Jadhawar “Mechanistic Modelling of Sand Consolidation Treatment in a Heavy Oil Sudanese Field Using an Innovative Guar Gum Gel Recipe” DEVEX 2019, SPE Aberdeen - UK
- 20- M. A. Ayoub, Mysara Eissa Mohyaldinn, Alexy ManaloAnas. M. Hassan, **Quosay A. Ahmed** “A New Model for Predicting Minimum Miscibility Pressure (MMP) in Reservoir-Oil/Injection Gas Mixtures Using Adaptive Neuro Fuzzy Inference System” Advances in Material Sciences and Engineering pp 527-54, 2019 Springer, ISBN 978-981-13-8297-0
- 21- Mysara E.Mohyaldinn, Wai Lin, Ola Gawi, M.Che Ismail, **Quosay A. Ahmed**, Mohammed A. Ayoub, Anas Hasan “Experimental Investigation of a New Derived Oleochemical Corrosion Inhibitor”, Key Engineering Materials, Vol. 796, pp. 112-120, 2019
- 22- Mysara E. Mohydin, Azmin S., **Quosay A. Ahmed**, Dinesh K. “Numerical Investigation of Sand Deposition in Storage Tank During Flow Sand- Entrained Slurry” 20IPTC-(19968)-MS, 2020
- 23- Mohammed A. Ayoub, Siti Nornajwa Zainal, Mysara E. Elhaj, Ku Esyra Hani Ku Ishak and **Quosay Ahmed** “Revisiting the Coefficient of Isothermal Oil Compressibility Below Bubble Point Pressure and Formulation of a New Model using Adaptive Neuro-Fuzzy Inference System Technique” International Petroleum Technology Conference, KSA 2020.
- 24- Ali A. Rabaha, Dina M. Belal, **Quosay A. Ahmed**, Mohamed Osman “Transportation Demand Management (Case study: Khartoum, Sudan)” University of Khartoum Engineering Journal – under reviewing , 2020.
- 25- Khaled Elraies, Ahmed Fatah-Alrahman, Jalal Foroozesh, Mohammed Ayoub, Gamal Gaafar, Abdullah Almansour, **Quosay Ahmed**“Investigation of Silica Dissolution during ASP Flooding: The Implications on Formation Porosity and Permeability (a case study with Bereasandstone)” under publication

Technical reports:

- 26- Feed-in Tariff for Renewable Energy in Sudan – Nationally Appropriate Mitigation Action, Wind Energy Project MWREI and UNDP- GEF project, Feb. 2019
- 27- Prediction of diesel fraction in Heglig CPF crude oil, 2BOPCO Co. Ltd. Khartoum- Sudan, July 2018
- 28- Contamination assessment of groundwater from evaporation ponds of the oilfield produced water- five oilfields in block 6 operated by PetroEnergy E&P Co. Ltd. Khartoum, Aug. 2017
- 29- “Report of the technical review of the second biennial report of Estonia” UNFCCC, FCCC/TRR.2/EST, GE.16-09128(E); June (2016)
- 30- Energy Auditing and Benchmarking Study for El-obayid Refinery, Energy Research Center-UofK and Ministry of Petroleum & Gas, (Dec. 2015)

- 31- Sudan's Intended National Contributions towards GHG mitigation and climate change adaptation, HCENR- UNFCCC, (Nov. 2015)
- 32- Energy Auditing and Benchmarking Study for Khartoum Refinery Company (KRC), Ministry of Petroleum and Gas, Khartoum, (2014)
- 33- Project Identification Format (PIF) to Sudan's third national communication, Higher Council for Environment and Natural Resources – Ministry of Environment and Physical Planning, Khartoum, (Oct 2014)
- 34- Promoting Low Carbon Development Project -Nationally Appropriate Mitigation Actions (NAMA-Sudan) (March, 2015)
- 35- Sudan's Second National Communication under the United Nations Framework Convention on Climate Change. Volume I and II. HCENR (Jan. 2013)
- 36- Laboratory evaluation of x-linked polymer for sand consolidation, University of Khartoum, - Ministry of Higher Education Research Projects, Sudan (2011)
- 37- Quosay A. Ahmed "Chemical Water Shutoff Process Modeling" Master Thesis- University of Stavanger, Norway (June, 2007)
- 38- Quosay A. Ahmed, MaritSandmoe and Anders Lauvdal "Zero Emission Steam Production for Extra Heavy Oil Recovery and Power Generation", STATOIL, presented in Statoil summer projects Symposium - Stavanger, Norway (Aug. 2006)
- 39- Quosay A. Ahmed "Computational software for Cyclic Steam Stimulation Process" Graduation Design – Department of Petroleum Engineering, China University of Petroleum, (June, 2002)

Membership and Other Experiences

- UNFCCC certified reviewer for energy sector in GHG inventory reports by Annex-I Countries
- Member of the IPCC – Short Lived Climate Forcers (SLCF) board.
- Member of the board of Creative Solutions Co. Ltd.
- Member of Energy Research Center – University of Khartoum
- Member of Society of Petroleum Engineers (SPE) since 2005 with SPE # 3226068,
- Member of board of directors of SPE Sudan Section
- Technical Advisor of the SPE-Student Chapter at the University of Khartoum
- Member of Editorial Board (Energy Sector) of the Emission Factor Database (EFDB)- IPCC
- Member of technical working group of GHG inventory, mitigation, adaptation, capacity building and climate finance in the Ministry of Environment, Natural Resources and Physical Development- Sudan
- Member of High Level Consultative Committee for Implementation of Paris Agreement-Ministry of Environment, Natural Resources and Physical Development- Sudan.
- Member of technical team to evaluate study program (Bachelor of Petroleum Engineering) for the Sudanese Engineering Council
- Member of projects and researches evaluation committee (Energy Sector) for the National Innovation Prize
- Business development manager of the Techno-pole unit (Business Incubator) at the University of Khartoum
- Instructor of training sessions and workshops; includes: Production Enhancement, Thermal oil recovery, Artificial lift methods, Petroleum Business management, Oilfield evaluation, Energy market, LEAP software, Natural Gas Production, Fugitives emissions from Oil and Gas facilities, IPCC Inventory Software, Climate Change Finance and many others
- Participation in managing multi-disciplinary projects in South Sudan
 - Mechanized farming schemes in South Sudan- 2008-2011
 - Construction of river port in South Sudan- 2009-2011
 - Creation of investment map for South Sudan- 2010
- Businesses Development Role in different areas:
 - Mining and minerals exploration services, Construction and contracting, Capacity building and training center, Facilities management services, Engineering consultancy business
- Software
 - Petroleum Expert package, HYSYS, Crystalball, Pipesim, Microsoft projects, Microsoft office package, Mathcad, Matlab, LEAP, IPCC 2006 Inventory Software.
 - Familiar with: Visual Basic, Eclipse 100, RMS, Palisade Decision Tools (@risk); Pipe flow calculations, Goldmind and many others
 - I developed a lot of computer programs, templates, and models for different purposes

Awards

- CNPC scholarship, 1998-2002
- The Best Graduation Project prize, China University of Petroleum, 2002
- UiS Industrial Scholarship, 2005-2007
- UNESCO Fellowship, 2012-2013
- DAAD Scholarship 2013-2015, and others