

Sami Abdulsalam, Ph.D. P.Eng

Siemens PTI, Senior Consulting Manager
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WORK EXPERIENCE:

- June 1st 2020 – Present **Senior Manager,
Siemens PTI, Schenectady, NY, US**
- Nov 1st 2019 – May 31st, 2020 **Principal,
Sustainable Grid Power Inc., Transmission Division, Calgary, AB**
- 2017 – Oct 30th, 2019 **Director, Transmission Planning
AESO, Transmission Division**
- 2016 – 2017 **Director, Transmission System Projects
AESO, Transmission Division**
- 2015 – 2016 **Manager, Operations Planning
AESO, Operations Planning and Engineering**
- 2011 - 2015 **Manager, Projects and System Access Studies
AESO, Transmission Project Delivery**
- 2009 - 2011 **Senior Engineer
AESO, Transmission Project Delivery**
- 2008 - 2009 **Senior Engineer
AESO, Transmission-Technical Services**
- 2007 - 2008 **Post Doctoral Fellow
ECE Dept., University of Alberta, Edmonton, Canada.
Main-Project: Determining acceptable synchronization parameters for the Alberta
Interconnected Power Systems (AIES).**
- 2002 - 2007 **Research Assistant (Mitigation of Electromagnetic Transients)
ECE Dept., University of Alberta, Edmonton, Canada.
Thesis Title: Modelling and Mitigation of Transformer Inrush Transients.**
- 2004 - 2005 **Research Assistant (Power Quality and Harmonics Project)
ECE Dept., University of Alberta, Edmonton, Canada.**
- 2001 - 2002 **Electrical and Instrumentation Engineer
Enppi, Instrumentation and Control Systems Department, Cairo, Egypt.**

- 2001 **Electrical Engineer (Protection)**
EOMPC/BECHTEL, El-Kureimat, Egypt.

- 1999 - 2001 **Research Assistant**
Electrical Power and Machines Dept., University of El-Mansoura, Egypt.
Thesis Title: Effect of Protection Performance on Power System Voltage Stability

PUBLIC HEARINGS – EXPERT WITNESS (Regulatory Experience):

- 2021 **FERC Docket No. RM21-17-000** – for NextEra on Building for the Future Through Electric Transmission Planning and Cost Allocation and Generator Interconnection
- 2021 **FERC Docket No. ER19-2019 and ER19-2023** – Tucson Electric Company Loss Study
- 2019 **AUC Application No. 23429-A001 / Proceeding ID 23429** – PENV Transmission Development Project, January 2019 – **Approved (Facility Application stage)**
- 2018 **AUC Application No. 23105-A001 / Proceeding ID 23105** – Rycroft Area Transmission Development, December 2018 – **Approved (Facility Application stage)**
- 2018 **AUC Application No. 23339-A001 / Proceeding ID 23339** – Provost Reliability Upgrade Project, October 2018 – **Approved (under construction)**
- 2014 **AUC Application No. 1609123 / Proceeding ID No. 2303** – South and West Edmonton Area Transmission Reinforcement Needs Identification Document, March 2014 – **Approved (Energized)**
- 2012 **AUC Application No. 1607818/ Proceeding ID No. 1530** - Spruce Grove 595S Substation Connection Needs Identification Document, August 2012 – **Approved (Energized)**
- 2012 **AUC Application No. 1607512/Proceeding ID No. 1363** - Weasel Creek 947S and Abee 993S Substations Needs Identification Document, May 2012 – **Approved (Energized)**

PROJECT PORTFOLIO (Key Projects Developed/Managed - Last five years)

Chapel Rock to Pincher Creek Development - 240-500kV	Consultation Completed	\$450M
Central East Transfer Out Project - 240kV	Consultation Completed	\$500M
Alberta-BC Intertie Restoration Project – 500 kV	Consultation Completed	\$100M
PENV Transmission Development – 138-240kV	Approved	\$240.0M
Rycroft Transmission Development – 138kV	Approved	\$50.0M
Fort McMurray West 500kV Transmission Line – 500kV	Energized	\$1,450.0M
South and West of Edmonton Development - 240-138kV	Energized	\$280.0M
SATR – CBW 240 kV Transmission Development – 240kV	Energized	\$1,000.0M
SATR-South of Foothills Development – 240kV	Energized	\$800.0M

PROFESSIONAL ACTIVITY/AFFILIATIONS/VOLUNTEERING:

Chair, IRC Planning Committee (US and Canada) 2018 – Oct 2019
Member, WIRES North America, Alberta Rep 2018 – Oct 2019
Member, AESO TFCMC Representative, 2017 - Oct 2019
Member, IRC Planning Committee (US and Canada)- Alberta Representative 2016 - Oct 2019
Prosci Change Management Certification 2015/16
Chair, IEEE PES/IAS Northern Canada Chapter (2008).
Secretary, IEEE PES/IAS Northern Canada Chapter (2004-2007).
Member, IEEE Power Engineering Society (2003-Present).
Member, IEEE Industry Application Society (2009-Present)
Journal Research Paper Reviewer for the following Publications;
- IEEE Transactions on Power Delivery (2003-Present)
- IEEE Transactions on Power Systems (2003-Present)
- IEEE Transactions on Industry Applications (2003-Present)
- Conferences including IEEE, CIGRE, EPEC, and others (by invitation)
Professional Engineer, Egyptian Syndicate of Engineers, (1997-Present).
Project Manager, ESANA Canadian Book Campaign, (2005-2007).
P. Eng (APEGA), Registered Professional Engineer in Alberta
Robot Inspection Manager, First Robotics Canada (2013, 2014, 2015) - Volunteer

EDUCATION:

2002 - 2007 **Doctor of Philosophy**, June 2007, University of Alberta, Edmonton, Alberta.
Thesis title “**Modeling and Mitigation of Transformer Inrush Currents.**”
1999 - 2001 **Master of Science**, May 2001, University of El-Mansoura, El-Mansoura, Egypt.
Thesis title “**Effect of Protection Performance on Power System Voltage Stability.**”
1992 - 1997 **Bachelor of Science**, University of El-Mansoura, El-Mansoura, Egypt.
Graduation Project: “**Power System Dynamic Simulation for Voltage Stability Studies**”