

**Candidate for Co-Chair TFI (IPCC AR7)**

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Dr. Mazhar Hayat holds M. Phil. degree in Chemistry from Pakistan and Ph.D. degree in Energy & Environmental Policy from GREEN School, Korea University, South Korea. He also holds Post Graduate Diploma in Environmental Laws. His area of interest is GHG inventories, and environmental & climate change governance. He is civil servant by profession and has served at various positions in public sector in Pakistan since 2006 including Ministry of Climate Change & Environment Coordination (MoCC & EC) and Ministry of Water Resources.



His experience includes working in projects related to Refrigeration and Air Conditioning Sector GHG emissions inventory, HCFCs Phase-out Management Plan (HPMP Pakistan), and National Adaptation Plan (NAP). As Deputy Secretary (International Cooperation) at MoCC & EC, he has remained involved in national processes on UNFCCC, IPCC, Based Convention, and Montreal Protocol.

He is member to various committees and experts groups of United Nations working on environmental sustainability, plastic and e-waste pollution. He has participated as party delegate in various COPs to UNFCCC and IPCC sessions. Recently, he has represented Pakistan at UN 2023 Water Conference and APFSD-10.

Dr. Mazhar Hayat strongly believes in developing academia, private sector and government linkages to support evidence based climate change policy making. He is visiting speaker at various universities and professional training institutions. Dr. Hayat has also sufficient experience of technical report writing and research articles. Currently he is working as Deputy Secretary at Ministry of Water Resources, Pakistan. For his outreach activities please see his LinkedIn page: [linkedin.com/in/dr-mazhar-hayat-9607411a5](https://www.linkedin.com/in/dr-mazhar-hayat-9607411a5)

# CURRICULUM VITAE

<b>Name</b>	<b>DR. MAZHAR HAYAT</b>
<b>Date of Birth:</b>	10-MAR-1980
<b>Nationality</b>	PAKISTANI
<b>ID/ Passport No.</b>	DN6171275
<b>Postal Address</b>	3-A/108, RAVI BLOCK, GULSHAN-E-JINNAH, F-5/1, ISLAMABAD
<b>Mobile/ Whatsapp#</b>	+92 333 6819770
<b>E-mail</b>	mazhar_uos@yahoo.com
<b>Education</b>	<ul style="list-style-type: none"> <li>– Ph.D. (Energy, Resource &amp; Environmental Policy), GREEN School, Dept. of Energy and Environmental Policy &amp; Technology, Korea University, South Korea (Feb 2019)</li> <li>– M. Phil. (Chemistry), Dept. of Chemistry, UET, Lahore (June 2008)</li> <li>– M.Sc. (Chemistry), Dept. of Chemistry, Government College Sargodha (Jan 2003)</li> <li>– PGD (Environmental Laws), Faculty of Law, University of the Punjab, Lahore (Pakistan) 2022.</li> </ul>
<b>Other trainings/ courses attended</b>	<ul style="list-style-type: none"> <li>– <b>UN Framework Convention on Climate Change (UNFCCC):</b> Global Training on preparation of biennial update reports – use of NAI software for GHG inventories from 14-16 Sept 2013 Bonn.</li> <li>– <b>UNFCCC:</b> CDM Designated National Authority (DNA) training and Workshop on Enhancing Regional Distribution of CDM Projects 4-5 Sept 2013, Manila, Philippines.</li> <li>– <b>UNFCCC:</b> Regional Training on preparation of biennial update reports September 2014, Yerevan, Armenia.</li> <li>– <b>GIZ:</b> Training on GHG &amp; Non-GHG Indicators and Sustainable Development, Manila Philippines.</li> <li>– <b>NIEHRD Korea:</b> Certificate in Environmental Policy, South Korea (11-22 May 2015).</li> <li>– <b>Government of Pakistan:</b> 38<sup>th</sup> Common Training Program (CSS-2009), Civil Services Academy, National School of Public Policy, Lahore (2011)</li> <li>– <b>Government of Pakistan:</b> 33<sup>rd</sup> Specialized Training Program, Secretariat Training Institute, Establishment Division, Government of Pakistan, Islamabad (2011)</li> <li>– <b>Government of Pakistan:</b> 29<sup>th</sup> Mid-career Management Course, National Institute of Management, Peshawar-Pakistan (2020)</li> </ul>

<b>Membership in International Forums/ Committee</b>	<ul style="list-style-type: none"> <li>– Global Environment Facility (GEF) Alternate Board Member (2019-2020)</li> <li>– Member, Expert Working Group (EWG) on the e-waste technical guidelines.</li> <li>– Member, Environmental Network for Optimizing Regulatory Compliance on Illegal Traffic (ENFORCE)</li> <li>– Member, Small intersessional working group (SIWG)</li> <li>– Member Plastic Waste Partnership</li> </ul>				
<b>Countries of Work Experience</b>	<ul style="list-style-type: none"> <li>– Pakistan</li> <li>– South Korea (PhD)</li> </ul>				
<b>Language &amp; Degree of Proficiency</b>	<i>Language</i>	<i>Fair</i>	<i>Good</i>	<i>Superior</i>	<i>Native</i>
	Urdu				X
	Punjabi				X
	English			X	
<b>Foreign Donor Project Experience</b>	<ul style="list-style-type: none"> <li>– National Program Manager (NPM), National Ozone Unit ( A joint program of activities by UNDP, UNIDO, MLF, UNEP, and Ministry of Climate Change (MoCC))</li> <li>– National Technical Adviser/Coordinator NAP Process (Green Climate Fund funded Readiness Activity-UNEP (as Accredited Agency); MoCC (Executing Agency))</li> </ul>				

Employment Record	
<b>From : 2-June-2022</b>	<b>To : Present</b>
Employer	Ministry of Water Resources
Position Held	Deputy Secretary
Description of Duties	Implementation of National Water Policy-2018, Institutional Strengthening, International Cooperation, General Administration.
<b>From : 10-Dec-2020</b>	<b>To : 01-June-2022</b>
Employer	NAP Project, Ministry of Climate Change (GCF Funded project/ UNEP as accredited agency)
Position Held	National Technical Adviser/ Coordinator, Pakistan National Adaptation (NAP) Process
Description of Duties	<p>Aligning climate change adaptation in national planning process; Supervising studies in the fields of climate vulnerability and risk assessment; climate information system; and Program management through:</p> <ul style="list-style-type: none"> <li>– Lead the organization of, participate as a resource person, and represent the project in national and subnational workshops and meetings, in close coordination with the Project Director and key National Adaptation Plan (NAP) institutional stakeholders;</li> <li>– Facilitate institutional capacity building in gender-sensitive climate change adaptation planning, multi-sectoral and integrated planning approaches, and climate finance;</li> <li>– Coordinate the day-to-day implementation of the project</li> <li>– Supervise project staff; and</li> <li>– Serve as Secretary to the Project Steering Committee (PSC), organize annual PSC meetings and related documentation.</li> </ul>
<b>From: 06-Mar-2019</b>	<b>To: 10-Dec-2020</b>
Employer	Ministry of Climate Change
Position Held	Deputy Secretary
Description of Duties	<p>The position of Deputy Secretary is a supervisory position. It involved supervisions of five sections headed by section officers. Overall function is climate change and environmental governance with following roles:</p> <ul style="list-style-type: none"> <li>– Climate change and environmental governance through various legislative, technical and policy tools.</li> <li>– Preparing background papers, concept notes, and coordinate to conduct national and sub-national level workshops, meetings, consultative processes engaging public sector actors, private sector, academia, NGOs/NPOs/ Think Tanks as well as informal sectors;</li> <li>– Support government through background information, reports, and policy briefs for UNFCCC COPs and IPCC Sessions.</li> <li>– Contributing to INDC, SNC, TNA (Adaptation and Mitigation) process in the country.</li> <li>– Additional assignments of multilateral environmental agreements (MEAs) i.e, Montreal Protocol and Basel Convention.</li> </ul>

<b>From: 01-Sep-2016</b>	<b>To: 25-Feb-2019</b>
Employer	Graduate Scholl of Energy & Environment (GREEN School), Korea University, Republic of Korea.
Position Held	Ph. D. Research Fellow
Description of Duties	Climate Change Policy Research
<b>From: 01-Oct-2015</b>	<b>To: 29-Aug-2016</b>
Employer	National Ozone Unit (NOU) Project, UNDP & M/o Climate Change
Position Held	National Program Officer
Description of Duties	<p>Headed a national level multi-agency (UNEP, UNIDO, UNDP, Industry, and National Government) programme namely;</p> <ul style="list-style-type: none"> <li>– Institutional Strengthening of National Ozone Unit for the implementation of Montreal Protocol with following duties:</li> <li>– Manage the project administratively, financially, logistically, professionally and technically according to the UNDP's standard procedures.</li> <li>– Liaise with project donors, to keep them informed of the progress of project activities.</li> <li>– Liaise with other Government of Pakistan (GoP) offices, and civil society organizations etc.</li> <li>– Prepare all technical and financial reports and terminal reports to be submitted to the Government and international organizations.</li> <li>– Advise the government on project management issues as necessary.</li> <li>– Represent the project at various national / international meetings (i.e. ODS Officers Network Meeting, OEWG Meeting &amp; MoP and other such meetings / conferences)</li> <li>– Carry out field monitoring visits and hold meetings with different stakeholders.</li> <li>– Arrange the holding of seminars and workshops on various ozone related issues.</li> <li>– Prepare awareness material, reports on the proceedings of seminars and workshops for dissemination among concerned stakeholder and civil society members.</li> <li>– Prepare quarterly / annual progress reports.</li> </ul>
<b>From: 11-May-2013</b>	<b>To: 01-Oct-2015</b>
Employer	M/o Climate Change
Position Held	Section Officer (Climate Change)
Description of Duties	<p>Desk officer for:</p> <ul style="list-style-type: none"> <li>– United Nations Framework Convention on Climate Change (UNFCCC) Process, National Communications, submissions and follow up.</li> <li>– Intergovernmental Panel on Climate Change (IPCC) Process, National Communications, submissions and follow up.</li> <li>– Streamlining the administrative &amp; technical matters of the "Clean Development Mechanism (CDM) Cell Project under Kyoto Protocol."</li> <li>– Successfully convened three "Consultative Meetings of Provincial Secretaries Committee for Implementation of National Climate Change Policy-2012."</li> <li>– Attended meeting on Pro-Poor approaches in Solid Waste</li> </ul>

	<p>Management, Sept 2014, Vietnam.</p> <ul style="list-style-type: none"> <li>– <b>Party Delegate</b> to 37<sup>th</sup> Intergovernmental Panel on Climate Change (IPCC) Session from 14-18 October 2013 Batumi, Georgia.</li> <li>– <b>Party Delegate</b> to 19<sup>th</sup> Conference of Parties (COP-19) to the United Nations Convention of Climate Change and 9<sup>th</sup> Meeting of Parties to the Kyoto Protocol, 11-23 Nov. 2013, Warsaw, Poland.</li> <li>– <b>Party Delegate</b> to 39<sup>th</sup> Intergovernmental Panel on Climate Change (IPCC) Session, April-2014, Berlin, Germany.</li> <li>– <b>Party Delegate</b> to 20<sup>th</sup> Conference of Parties (COP-20) to the UNFCCC and 10<sup>th</sup> Meeting of Parties to the Kyoto Protocol, 01-12 Dec. 2014, Lima, Peru.</li> <li>– <b>Party Delegate</b> to 41<sup>st</sup> Intergovernmental Panel on Climate Change (IPCC) Session February 2015, Nairobi, Kenya.</li> <li>– <b>Party Delegate</b> to UNEP GEO-6 REIN Conference, April, 2015, Bangkok, Thailand.</li> </ul>
<b>From: 27-Oct-2011</b>	<b>To: 10-May-2013</b>
Employer	Ministry of Capital Administration & Development (M/o CA&D)
Position Held	Section Officer and Private Secretary (PS) to Minister for CA&D
Description of Duties	Administrative work particularly related to education sector; Managing day to day affairs of Minister's office, coordinating high profile meetings with Prime Minister's Office, President's Office, line ministries and departments, Cabinet meetings, and engagements. Assisting in papers and file work related to legislative and policy business of the Ministry; and desk review of documents.
<b>From: 13-Jan-2011</b>	<b>To: 27-Oct-2011</b>
Employer	Government of Pakistan
Position Held	Section Officer/ Probationary Officer (On-job-training)
Description of Duties	From January 2011 to October 2011, as civil servant, I was professionally trained on governance, country system, public finance and legislative process at prestigious Civil Services Academy, Walton Campus, Lahore and Secretariat Training Institute, Islamabad .
<b>From: 2-Nov-2007</b>	<b>To: 12-Jan-2011</b>
Employer	AF Inspectorate of Stores (AFIMS), Lahore
Position Held	Assistant Inspector (Gde-II)- technical officer grade
Description of Duties	Industrial sampling of health sector stores, technical evaluation procurement documents, technical evaluation of laboratory reports. Mainly related to scientific work.
<b>From: 05-Jan-2006</b>	<b>To: 22-Nov-2007</b>
Employer	Directorate of Land Reclamation, Irrigation Department, Punjab
Position Held	Junior Research Officer
Description of Duties	As a researcher in the DLR my duties included to study the saline, saline-sodic, sodic and water logged soils. The subject is broadly covered under Climate Change Adaptation.

Publications	<ol style="list-style-type: none"> <li>1. <b>Mazhar Hayat</b>, Roberto Peixoto. "GHG Emissions in Pakistan's Refrigeration &amp; Air Conditioning Sector." UNDP (2021). <a href="https://www.pk.undp.org/content/pakistan/en/home/library/environment_energy/ghg-emissions-in-pakistans-refrigeration---air-conditioning-sect.html">https://www.pk.undp.org/content/pakistan/en/home/library/environment_energy/ghg-emissions-in-pakistans-refrigeration---air-conditioning-sect.html</a></li> <li>2. Altaf, Naveed, Shuyu Liang, Rashid Iqbal, <b>Mazhar Hayat</b>, Tomas Ramirez Reina, and Qiang Wang. "Cu-CuOx/rGO catalyst derived from hybrid LDH/GO with enhanced C<sub>2</sub>H<sub>4</sub> selectivity by CO<sub>2</sub> electrochemical reduction." <i>Journal of CO<sub>2</sub> Utilization</i> 40 (2020): 101205.</li> <li>3. Sadeq Anees Uddin Serdar, Mohamed Hussein Fahmy Madkour, Amani Aliwi Alrasheedi, <b>Mazhar Hayat</b>, Ijaz Ahmad. Aflatoxins exposure: a big economic, environmental and health concern. <i>Int. J. Biosci.</i> 15(6), 218-229, December 2019. <a href="https://innspub.net/ijb/aflatoxins-exposure-big-economic-environmental-health-concern/">https://innspub.net/ijb/aflatoxins-exposure-big-economic-environmental-health-concern/</a></li> <li>4. <b>Hayat, Mazhar</b>. "Climate change mitigation prospects through feasibility of carbon capture and storage technologies in coal fired power plants – exploring policy options for Pakistan." <i>AFORE</i> (2017): 148-148.</li> <li>5. Hassan, Mabroor, Muhammad Irfan Khan, <b>Mazhar Hayat</b>, and Ijaz Ahmad. "Environmental security in developing countries: a case study of South Asia." In <i>Handbook of Energy and Environmental Security</i>, pp. 231-261. Academic Press, 2022.</li> </ol>
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## References:

1. Mr. M Irfan Tariq, Director General (Ex.), Ministry of Climate Change, Islamabad. ([mirfantariq@gmail.com](mailto:mirfantariq@gmail.com))
2. Mr. Joudat Ayaz, NCVC, Ministry of Environment and Water (MEWA), Kingdom of Saudi Arabia. ([joudat@gmail.com](mailto:joudat@gmail.com))
3. Dr. M. Khursheed, DG (Ex.), SACEP, Sri Lanka. ([khurshidswati@yahoo.com](mailto:khurshidswati@yahoo.com))