## **6 REFERENCES**

- [1] A. e. al, "Condensate Water Collection for an Institutional Building in Doha, Qatar: An Opportunity for Water Sustainability," in *Sixteenth Symposium on Improving Building Systems in Hot and Humid Climates*, December 2008.
- [2] Chaminda, G.G Dr (Eng). Tushara, "Water Efficiency and Green Buildings," Green building council of Sri Lanka, 2020.
- [3] U.S Geological Survey, School, Water Science, "The distribution of water on, in, and above the Earth," 25 October 2019. [Online]. Available: https://www.usgs.gov/media/images/distribution-water-and-above-earth.
- [4] Abdulaziz.M.AL-Shail, Khalid, "Analysis of solar energy in desalination plants in Saudi Arabia," Granada, May, 2020.
- [5] United nations, "Water at the center of the climate crisis".
- [6] World bank group, "Climate risk country profile Sri Lanka," 2021.
- [7] S. L. S. Instituion, Code of practice for the design and construction septic tank and associated effluent disposal system, Sri Lanka, 2003.
- [8] United Nations, "Secretary general warns two thirds of global population could face water-stressed conditions within next decade, in message for international forests day," 18 March 2016. [Online]. Available: https://press.un.org/en/2016/sgsm17610.doc.htm.
- [9] Kelum Siriwardhena, Subhashi Ranathunga, "Air-conditioners condensate recovery".
- [10] Abeer Albalawneh, Tsun-Kuo Chang, "Review of the greywater and proposed greywater recycling scheme for agricultural irrigation reuses," *Granthaalayah*, vol. 3, no. 12, p. 35, December, 2015.
- [11] Xia Li at el., "Research on reclaimed water from the past to the future," *Environment development and sustainability*, 8 May 2021.
- [12] Thamer ahmed mohammed, Megat johari megat mohd. Noor, Abdul halim ghazali, "Study on potential uses of rainwater harvesting in urban areas," p. 14, January 2006.
- [13] Edwin Brands at el, "Ground water," p. 17, 2016.
- [14] Coker, A. Kayode, "Refrigeration Systems," *Ludwig's Applied Process Design for Chemical and Petrochemical Plants*, pp. 623-727, 2015.

- [15] Håkon Selvnes at el, "Review on cold thermal energy storage applied to refrigeration systems using phase change materials," *Thermal science and Engineering progress*, vol. 22, p. 26, 2021.
- [16] Anna Magrini at el., "Water production from air conditioning systems," *Sustainability*, vol. 9, p. 18, 2017.
- [17] Diana Glawe, Marilyn Wooten, D.Lye, "Quality of condensate from air-handling units," p. 11, December 2016.
- [18] Amirreza Heidari, Ehsan Heidari, "Using makeup water to recycle cooling tower evaporated water: A feasibility study using experimental data," *Energy Technology and Policy*, 2019.
- [19] Layous, Adonis, "Cooling towers How to calculate cycles, blowdown, evaporation, makeup," *ASHRAE Qatar Oryx Chapter blog*.
- [20] kkhan, "HVAC & Engineering," 24 March 2022. [Online]. Available: https://hvactechguide.com/makeup-water-calculation-cooling-tower/.
- [21] "Public utility commission of Sri Lanka," [Online]. Available: https://www.pucsl.gov.lk/.
- [22] Anna Jurga at el., "Condensate as a water source in terrestrial and extra-terrestrial conditions," *Water resources and Industry*, vol. 29, 2023.
- [23] I. Roumeliotis, K. Mathioudakis, "Analysis of moisture condensation during air expansion in turbines," *International Journal of Refrigeration*, vol. 29, no. 7, pp. 1092-1099, November 2006.
- [24] S. V, "How can I calculate thermochemistry equations for phase changes?," 24 December 2014. [Online]. Available: https://socratic.org/questions/how-can-i-calculate-thermochemistry-equations-for-phase-changes.
- [25] Sherif, By S.A., "Overview of Psychrometrics," ASHRAE journal, July 2002.
- [26] Hyndman, Bruce, "Heating, ventilation, and air conditioning," *Acedamic press*, pp. 662-666, 2020.
- [27] Wufeng Jin at el., "The dynamic effect of supply water flow regulation on surface temperature changes of radiant ceiling panel for cooling operation," *Sustainable cities and society*, vol. 52, January 2020.

- [28] Adams, Barbara Belzer, "The benefits of harvesting HVAC condensation," Water technology, 18 February 2017. [Online]. Available: The benefits of harvesting HVAC condensation.
- [29] A. Chiasson, "Waste heat rejection methods in geothermal power generation," *Geothermal Power Generation*, pp. 423-442, 2016.
- [30] Girja Shara, "Harvesting Dew with Radiation Cooled Condensers to," *Service Learning in Engineering*, vol. 6, no. 1, pp. 132-152, 2011.
- [31] Kelum Siriwardhena, Subhashi Ranathunga, "Air-conditioners condensate recovery system for buildings," UAE.
- [32] Shahab Uddin et al., "Assessment of quantity and quality of condensate water from air conditioners," in *2nd internatinal conference on ater and environmental enginering*, Dhaka, Bangladesh, 2019.
- [33] Apurva Sabnis et al., "Quality testing of air conditioner condensate and Its potential in water conservation," *Water resource and protection*, vol. 12, 2020.
- [34] Hua Yang et al., "Experimental study on the effect of condensate water on the performance of split air conditioning system," *Energy reports*, vol. 7, p. 12, 2021.
- [35] organization, World health, "Guidelines for Drinking-water Quality," 2011. [Online]. Available: https://apps.who.int/iris/bitstream/handle/10665/44584/9789241548151\_eng.pdf.
- [36] M Aline E Noutcha et al., "Quantity and quality of water condensate from air conditioners and its potential uses at the University of Port Harcourt, Nigeria," *Pelagia research library*, vol. 7, pp. 45-48, 2016.
- [37] Shahab Uddin et al., "Assessment of quantity and quality of condensate water from air conditioners," in 2nd International conference on water and environmental engineering, Dhaka, Bangladesh, 2019.
- [38] Lubna Siam et al., "Developing a strategy to recover condensate water," p. 17, 15 August 2019.
- [39] Paulo Sergio Scalize, Samara Soares & Andreia Cristina Fonseca Alves, "Use of condensed water from air conditioning systems," *Researchgate*, vol. 8, pp. 284-292, September 2018.

- [40] Md. Washim Akram, Rifatul Mursalin, Md. Murad Hassan, Md. Rashedul Islam, Sirajul Karim Choudhury, "Recycling of Condensed Water from an Air Conditioning Unit," in *International Conference on Computer, Communication, Chemical, Materials and Electronic EngineeringAt: University of Rajshahi, Rajshahi-6205*, Bangladesh, February 2018.
- [41] Dusan Licina, Chandra Sekhar, "Energy and water conservation from air handling unit condensate in hot and," *Energy and Buildings*, no. 45, p. 8, 2011.
- [42] Aremu Akintunde, Tunji John Erinle, "Effects of Temperature and Humidity on Coefficient of Performance of Airconditioning System," no. 18, pp. 145-155, 2015.
- [43] Sushil Kumar PE, Sagar Kanchi, "Cooling coil condensate system design," *Cooling coil condensate is an important aspect of HVAC system design and should be carefully considered to avoid major issues in the future*, 2 December 2009.
- [44] Hou-Jun Li et al., "Potential analysis of atmospheric water harvesting technologies from the perspective of "trading-in energy for water"," p. 21, 2023.
- [45] C. e. at., "Fresh air pre-cooling and energy recovery by using indirect," in *The 6th International Conference on Applied Energy*, The Hong Kong Polytechnic University, Kowloon, Hong Kong, China, 2014.
- [46] Anna Magrini, Lucia Cattani, Marco Cartesegna and Lorenza Magnani, "Water Production from Air Conditioning Systems: Some Evaluations about a Sustainable Use of Resources," *Sustainability*, vol. 9, p. 18, 2017.
- [47] Reuter, Samantha Jean, "Evaluation of Two Water Reuse Applications: Cooling Tower Makeup Water and Residential HVAC Condensate Reuse," The University of Texas, Austin, 2016.
- [48] Vengateson, U., "Estimate Evaporation Loss and Makeup Water Requirements," 1 April 2017. [Online]. Available: https://www.chemengonline.com/cooling-towers-estimate-evaporation-loss-and-makeup-water-requirements/?printmode=1.
- [49] Guccione, Pat, "Don't Send Your Air-Handler Condensate Water (and Money) Down the Drain!," p. 1, 20 March 2018.
- [50] "Use condensate water from AHU for cooling tower Methods to save and recycle water for cooling tower, including condensate water from AHU, FCU," [Online]. Available:

- https://uce.com.vn/methods-to-save-and-recycle-water-for-cooling-tower-including-condensate-water-from-ahu-fcu/.
- [51] Vengateson, Uthirapathi, "Cooling towers: Estimate evaporation loss and makeup water requirements," *ResearchGate*, p. 6, April 2017.