













- [21] Y. Tian and C. Y. Zhao, "A review of solar collectors and thermal energy storage in solar thermal applications," *Appl. Energy*, vol. 104, pp. 538–553, Jul. 2013, doi: 10.1016/j.apenergy.2012.11.051.
- [22] A. Barragán-Escandón, J. Terrados-Cepeda, and E. Zalamea-León, "The Role of Renewable Energy in the Promotion of Circular Urban Metabolism," *Sustainability*, vol. 9, no. 12, p. 2341, 2017, doi: 10.3390/su9122341.
- [23] M. Khoukhi and S. Maruyama, "Theoretical approach of a flat-plate solar collector taking into account the absorption and emission within glass cover layer," *Sol. Energy*, vol. 80, no. 7, pp. 787–794, Aug. 2006, doi: 10.1016/j.solener.2005.06.002.
- [24] A. Shafieian, M. Khiadani, and A. Nosrati, "Thermal performance of an evacuated tube heat pipe solar water heating system in cold season," *Appl. Therm. Eng.*, vol. 149, pp. 644–657, Jul. 2019, doi: 10.1016/j.applthermaleng.2018.12.078.
- [25] E. Zambolin and D. Del Col, "Experimental analysis of thermal performance of flat plate and evacuated tube solar collectors in stationary standard and daily conditions," *Sol. Energy*, vol. 84, no. 8, pp. 1382–1396, 2010, doi: 10.1016/j.solener.2010.04.020.
- [26] M. de Guadalfajara, "Método simple para el cálculo de sistemas solares térmicos centralizados con acumulación estacional," Jul. 2020.
- [27] F. Obaco and J. Jaramillo, "Sistemas solar-térmicos : algoritmo operativo para aplicar el método F- Chart en la evaluación de colectores solares," pp. 1–3, 2010.
- [28] J. S. Haberl and S. Cho, "Literature Review of Uncertainty of Analysis Methods (F-Chart Program), Report to the Texas Commission on Environmental Quality," Jul. 2004.
- [29] Ministerio de Energía Gobierno de Chile, "¿Qué son los Sistemas Solares Térmicos?," *Ministerio de Energía*. Jul. 2015.
- [30] A. Edelman *et al.*, "State of the Tropics," James Cook University, Cairns, Jun. 2014.
- [31] M. Baquero and F. Quesada, "Eficiencia energética en el sector residencial de la Ciudad de Cuenca, Ecuador," *Maskana*, vol. 7, no. 2, pp. 147–165, 2016, doi: 10.18537/mskn.07.02.11.
- [32] M. C. Munari Probst and C. Roecker, "Architectural Integration Quality," in *Architectural Integration and Design of Solar Thermal Systems*, EPFL PRESS., Italia, 2011, pp. 27–29.
- [33] "Delta-T Devices - Registro de datos, humedad del suelo, meteorología y botánica. Resumen de Productos.," 2016.
- [34] "Operation Manual of Solar Controller SR658 for Split Solar System," 2017.
- [35] World Meteorological Organization, *Guidelines on Best Practices for Climate Data Rescue*, 2016 editi. Geneva: WMO, 2016.
- [36] S. A. Kalogirou, "Solar Energy Engineering: Processes and Systems: Second Edition," *ResearchGate*. Apr. 2020.
- [37] J. Méndez Muñiz and R. C. N.-333. 79. 3 Cuervo García, "Energía solar térmica." Madrid, España, p. 522, 2010.
- [38] J. Calle, "Integración de sistemas solares térmicos eficientes para obtener agua caliente sanitaria y disminuir la contaminación ambiental en el cantón Cuenca," *Repos. Tesis - UNMSM*, Jun. 2018.
- [39] J. Calle - Sigüencia and O. Tinoco - Gómez, "Obtención de ACS con energía solar en el cantón Cuenca y análisis de la contaminación ambiental," *Ingenius*, no. 19, pp. 89–101, Apr. 2018, doi: 10.17163/ings.n19.2018.09.
- [40] C. de D. Tecnológico, "CDT : Sistemas Solares Térmicos." Jun. 2007.
- [41] A. Kocer, I. Atmaca, and C. Ertekin, "A COMPARISON OF FLAT PLATE AND EVACUATED TUBE SOLAR COLLECTORS WITH F-CHART METHOD," p. 10.
- [42] C. Escobar and J. Tomás, "Diagnóstico del comportamiento de dos sistemas solares térmicos orientados a la generación de agua caliente sanitaria en viviendas sociales mediante el programa de protección al patrimonio familiar: Aplicación en la Región Metropolitana," Jun. 2018.