

Reference	Building Type	Simulation Software	Cost analysis
(Hamza, Alsaadani and Fahmy, 2022)	Commercial	EnergyPlus	No
(Mahdy <i>et al.</i> , 2022)	Residential	EnergyPlus	No
(GamalEldine and Corvacho, 2022)	Residential	EnergyPlus	No
(Abdelraouf, Atef El-Desouky and Moustafa, 2022)	Commercial	e-Quest	Yes
(Anber, 2022b)	Institutional	EnergyPlus	No
(Ramadan, 2022)	Commercial	EnergyPlus	No
(Anber and Khalifa, 2022)	Residential	EnergyPlus	No
(Eman, 2022b)	Institutional	EnergyPlus	No
(Omar, Khattab and Abdel Aleem, 2022b)	Institutional	HOMER	Yes
(Emil and Diab, 2021b)	Institutional	EnergyPlus	Yes
(El-Agami, Hanafy and Osman, 2021)	Commercial	EnergyPlus	No
(Ahmad <i>et al.</i> , 2021)	Residential	EnergyPlus	Yes
(Nafeaa, Mohamed and Fatouha, 2020)	Residential	EnergyPlus	No
(Osama El-Sherif, Mohamed and Fatouh, 2020)	Commercial	EnergyPlus	No
(Mohamed Abdelsalam, Mohamed EL Razzaz and Elnekhailey, 2020)	Residential	EnergyPlus	No
(Abd, Monem and Gindi, 2020)	Commercial	EnergyPlus	No
(Ragab and Abdelrady, 2020)	Institutional	EnergyPlus	Yes
(Hegazy, 2020b)	Residential	EnergyPlus	No
(Hegazy, 2019)	Institutional	Ecotect	Yes
(William <i>et al.</i> , 2020b)	Institutional	EnergyPlus	Yes
(William <i>et al.</i> , 2019)	Institutional	EnergyPlus	No
(Ahmed, 2019b)	Institutional	EnergyPlus	No
(Shafei, Tawfik and Khalil, 2019)	Institutional	EnergyPlus	No
(Elhadad <i>et al.</i> , 2019)	Residential	IDA ICE	No
(Mahmoud and Elkhairy, 2019)	Commercial	EnergyPlus	No
(Fahmy <i>et al.</i> , 2019)	Commercial (Heritage)	e-Quest	No
(Samaan, Farag and Khalil, 2018b)	Institutional	EnergyPlus	No
(Fahmy <i>et al.</i> , 2018)	Residential	EnergyPlus	No
(Elhadad, Baranyai and Gyergyák, 2018)	Residential	IDA ICE	No
(Khalil, Fikry and Abdeaal, 2018)	Residential	EnergyPlus	Yes
(Ahmad and Reffat, 2018)	Commercial	IES-VE	No
(Albadry, Tarabieh and Sewilam, 2017)	Residential	EnergyPlus	Yes
(Attia, Hamdy and Ezzeldin, 2017a)	Residential	EnergyPlus	No
(El-Darwish and Gomaa, 2017b)	Institutional	EnergyPlus	No
(Edeisy and Cecere, 2017)	Residential	EnergyPlus	No
(Aldali and Moustafa, 2016)	Residential	Ecotect	No
(Radwan <i>et al.</i> , 2016b)	Commercial and Institutional	HAP	No
(Reda <i>et al.</i> , 2015)	Residential	TRNSYS	No
(Dabaieh <i>et al.</i> , 2015)	Residential	EnergyPlus	Yes
(Mourad <i>et al.</i> , 2014)	Residential	ENER-WIN (ENER-WIN, n.d.)	No
(Fahmy, Mahdy and Nikolopoulou, 2014)	Residential	EnergyPlus	No
(Attia <i>et al.</i> , 2012)	Residential	EnergyPlus	No
(Nabih <i>et al.</i> , 2011b)	Residential	Ecotect	No
(Hanna, 2011)	Residential	Overall Thermal Transfer Value (OTTV) equations programmed into Excel	No
(Michel and Elsayed, 2006)	Residential	DOE-2	No