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the f-chart-software (f-chart-software, ees: engineering equation 2020) software used in this study has a built-in library of salinity, temperature, and solar irradiance profiles. for this reason, the required data for the ed-p and ro-p system are easily available from the software. the temperature profile used in the model is available in table 7. table 8 shows the salinity profile, whereas table 9 shows the solar irradiance profile. these profiles are used in the model, and are also used for the sensitivity analysis. the ees 2020 software is an engineering/design software tool that solves six or seven types of engineering equations such as power, energy, mass, heat, momentum, and cost. it is a product of f-chart-software, inc. and was released in june 2020. table 4 shows the input and output values of each unit. the orc is modeled on ees (f-chart-software, ees: engineering equation 2020) software using the water produced in the evaporation unit, the saline water from the ro, and concentrated saline water from the ed. the working fluid of the orc is r113. solar-pond assisted reverse osmosis-electrodialysis system for seawater desalination and hydroponic fertilizer solution productionall authors namra mir & yusuf bicer published online:15 december 2021table 5. input values for the orc the systems modeling and analysis were performed using excel 2010 and solver by ees (f-chart-software, ees: engineering equation 2020). the thermodynamic equations are provided in tables 1 and 2. figure 1 shows the systems modeling. all systems are simulated in the steady state conditions, and the results are analyzed at different times.



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the ro and ed units are modeled on ees (f-chart-software, ees: engineering equation 2020) software with the built-in seawater fluid package. the thermodynamic balances are applied, and the efficiencies of the overall system and individual units are calculated. both units are modeled on ees (f-chart-software, ees: engineering equation 2020) according to the assumptions and input variables mentioned in table 3.solar-pond assisted reverse osmosiselectrodialysis system for seawater desalination and hydroponic fertilizer solution productionall authors namra mir & yusuf bicer published online:15 december 2021table 3. input values for ro and ed units the sensitivity analysis codes are developed and used to find the effect of changes in various parameters such as salinity, temperature, solar irradiance, and heat input on the performance of orc system (flow, energy, exergy, and selectivity). (a) salinity can be varied from 0.05 m to 0.5 m to analyze how the salinity affects the flow of the orc. (b) temperature can be varied from 40°c to 50°c to analyze how the temperature affects the performance of the orc. (c) solar irradiance is varied from 200 to 600 w·m-2 to analyze the effect of change in solar irradiance. (d) the internal heat input can be varied from 10 to 50 kw·m-2 to analyze the effect of change in the internal heat input. the effect of these parameters on the flow of the orc is analyzed using ees software (f-chart-software, ees: engineering equation 2020). the effect of these parameters on the exergy, energy, and selectivity is analyzed using the first-order derivative calculation.the thermodynamic analysis can be further performed on the

system to study the overall energy and exergy efficiencies, and sensitivity analysis is conducted for each of the components of the system. the overall energy and exergy efficiencies of the orc are also analyzed. 5ec8ef588b

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