

3. Results analysis

Multiple ISCC electricity dispatch strategies can be defined based on the flexible management of particles-based storage system. For the sake of brevity, two strategies are presented in this abstract;

- Constant nominal power dispatch (150 MW_e) during the evening peak-load (from 5 pm to 10 pm) considering 30 minutes of ramp-up and down from idle to full load conditions. Figure 2-a represents solar field, solar receiver, power block and thermal storage performance for (28th day of the year) while Figure 2-c shows annual electricity production.
- Variable power dispatch following real demand curve (annual peak 150 MW_e) from 9 am to 11 am and from 5 pm to 9 pm. Figure 2-b represents daily performance of the solar plant and Figure 2-d the annual production.

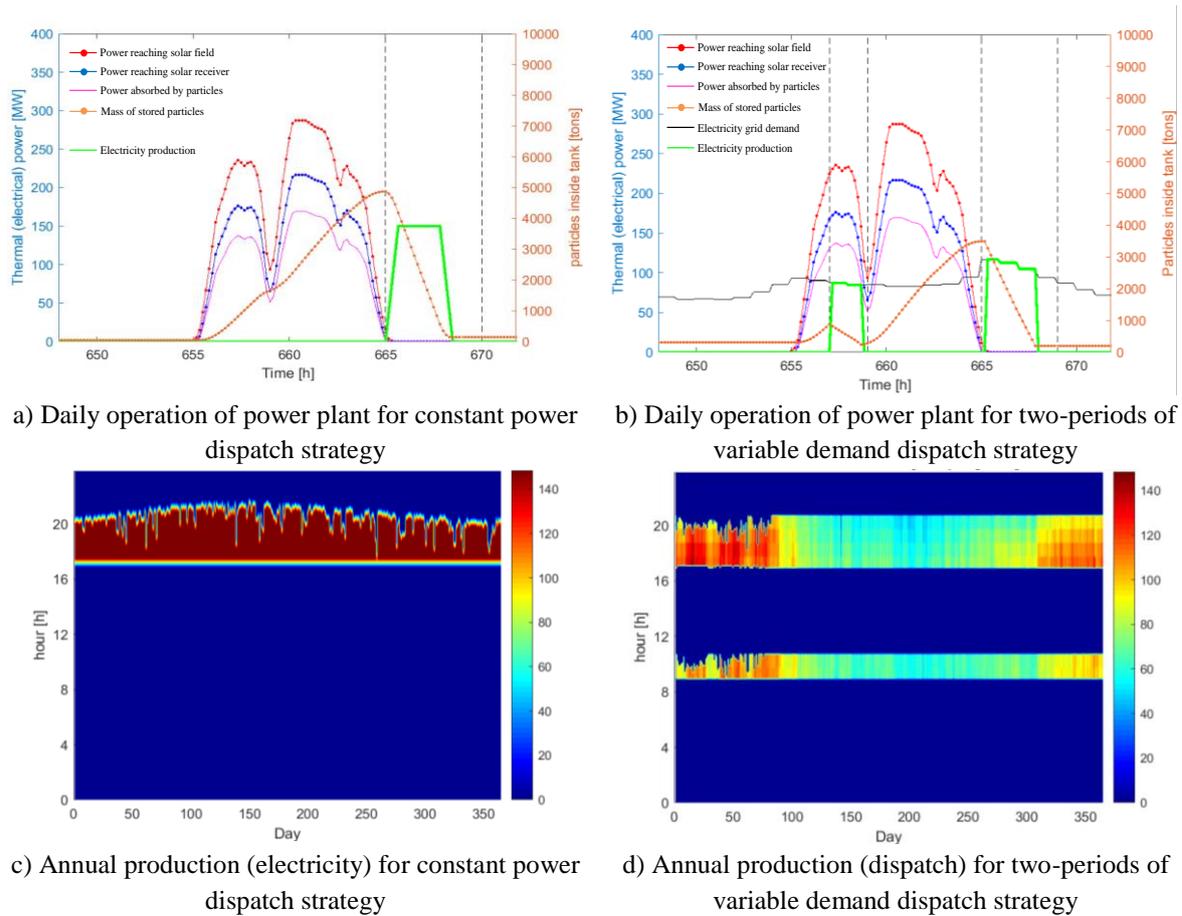


Figure 2: Power block dispatch strategies.

References

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