

# Solar energy worksheet



**Name:**

**City:**

1. Area city covers in m<sup>2</sup>:
2. Annual energy consumption for city in GWh:
3. Modelled energy generation for city in GWh:
4. Variance in energy between model and actual energy in GWh:
5. Cost of solar panels in local currency:
6. What simplifying assumptions did you use in your model and how did they impact your results?
  
7. Based upon your model and what you know about energy needs/energy security in the coming years, would it be feasible to generate the energy for your city in the manner? Explain.