

# PDF Version

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# To Colonize Venus

An extensively researched report.

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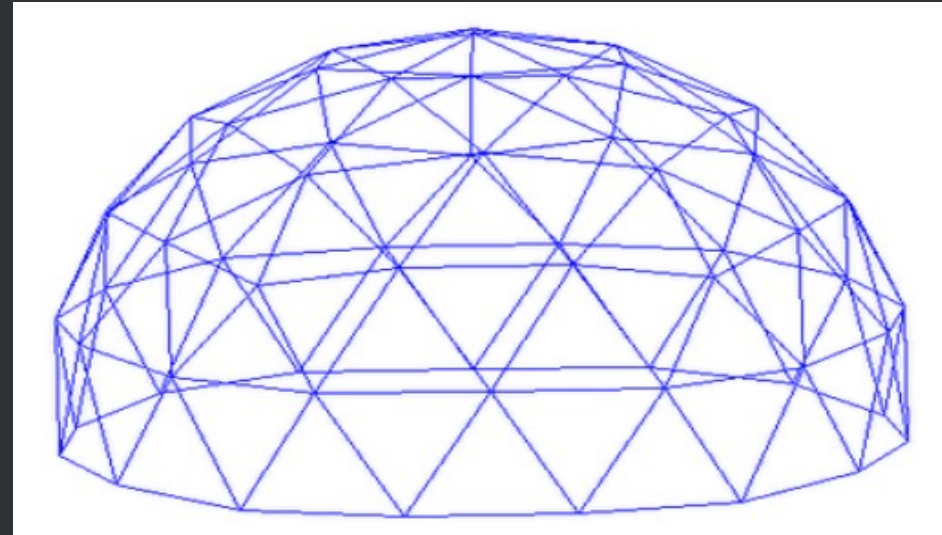
# Introduction

We desperately need to move to another planet. We have exploding population, we are running out of oil, and we are running out of Mother nature's precious resources. Also, as a result of us not being here will make it more likely that we may return some time in the future. We are desperate to find a place to live besides earth.



# Shelter

- People will live in a giant dome.
- The dome will be made out of zirconium and glass.
- We will have to build the dome with robots or enhanced bio-suits due to the rough conditions on Venus.
- Zirconium has the greatest corrosion resistance of all metals eroding completely every twenty years.
- A sun deck is a necessity due to the lack of vitamin D.



# Water

- Water is a necessity for any life to exist.
- There is water in Venuses atmosphere, though very little, measuring at twenty parts per million.
- Through water filtration, we could reuse all of our water.



# Food

- We need food to operate properly
- Food  $\propto$  Energy
- We need compost to grow plants, and plants to feed livestock. We need plants and livestock to feed us. (Exception: carnivores/vegetarians)
- We need compost and seeds.
- The plants need sunlight and carbon dioxide in a climate controlled environment.



# Electricity

- Electricity allows us to power useful devices.
- Due to the high wind of Venus, averaging at 300 k/h, a wind farm would have the most potential for energy.
- Also, due to the high temperature, holding steady at 420 degrees Celsius, we could use the temperature to create a giant steam generator.





# Garbage Disposal

- If we were to dump all of our garbage outside, Venus would turn into a wasteland faster than earth because it is smaller.
- We should compost all food and human waste.
- We would recycle and reuse all that could be recycled and reused.
- The rest of the garbage could be thrown outside and burned because of the extremely high temperature.



# How to Clarify Water

- We screen the sewage and throw the junk outside and watch it burn.
- We remove the grit, throw it outside, and watch it burn.
- We put the remaining water into a sedimentation tank, then they take the sludge outside and watch it burn.
- We pump the mostly clean water into an agitated tank.
- We expose the water to powerful UV to kill all of the micro organisms.
- Finally, we chemically treat the water to make it taste better and add vitamins.



# Conclusion

Based upon the information we gathered, collected, and presented, it appears to be a pretty feasible idea to move to Venus. We would get plenty of heat, and we would not have to worry about garbage. Venus would make a suitable new home.



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