**Shelters building, generation of Energy and getting Water on the Moon and Mars.**

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**Abstract.** We add it later.

**Key words**: solar system; colonization; Moon living; Mars living

**1. Introduction: problem and terminology.**

Now it is the main problem for Human civilization.

This article discusses possible solutions to this problem.

Duration of human’s stay on the Moon and Mars:

* Half of a day without sleep (American on the Moon)
* With sleeping one week
* One month
* Half year and mores
* All remaining life without returning to Earth

Here we will discuss the last case.

**2. Three most important things for living on the Moon and Mars.**

**Energy** is base of all:

* Chemical for rocket engine
* Solar batteries
* Nuclear reactors

**Water** is:

* the oxygen for humans
* gas for motors on the Moon and Mars

**Shelter** is the most important for human living:

* Protection against Solar Radiation
* Humans are living as in the Earth’s House if they will be there half year and more.
* Source of Food and Processors of Human’s waste (carbon dioxide, urine, feces): greenhouses
* Relaxation

**4. Sources of water on the Moon and Mars.**

**5. Construction of energy systems on the Moon and Mars.**

**6. Steps to build shelter.**

**7.**

**8.**

**9.**

**10. Conclusions.**

Make them yourself if you plan to live on the Moon or Mars.

**11. Acknowledgments.**

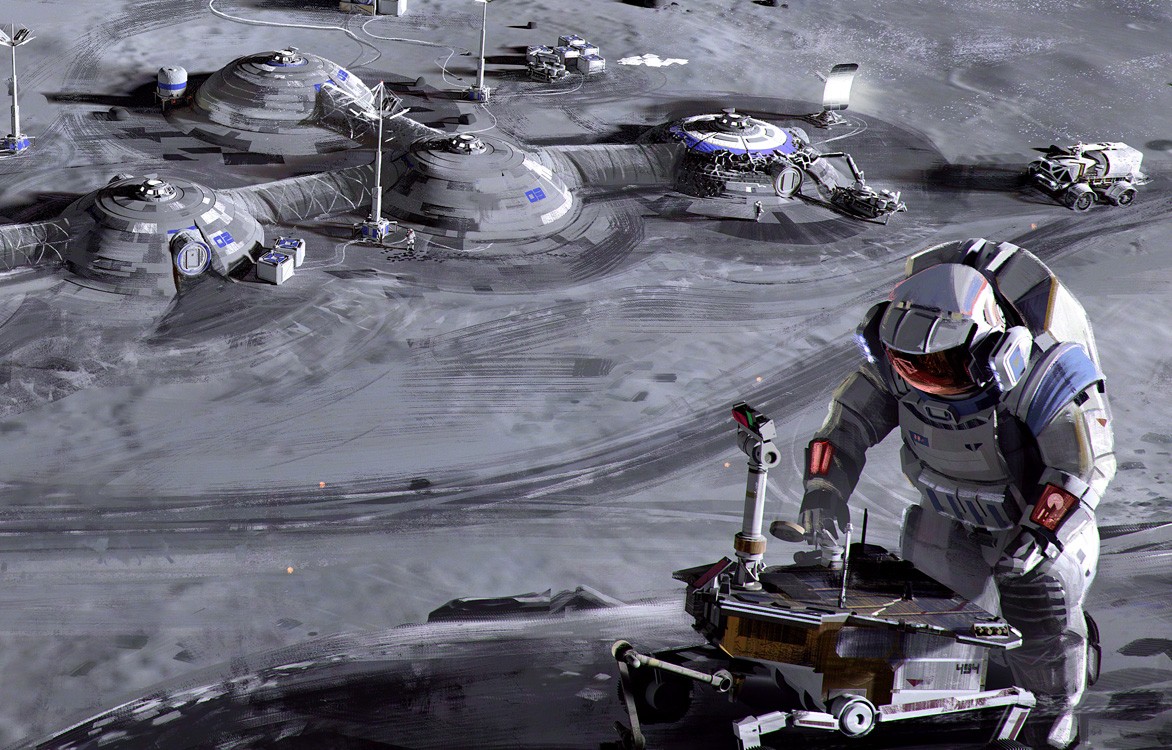
We are very thankful to researchers who ...

**Literature**

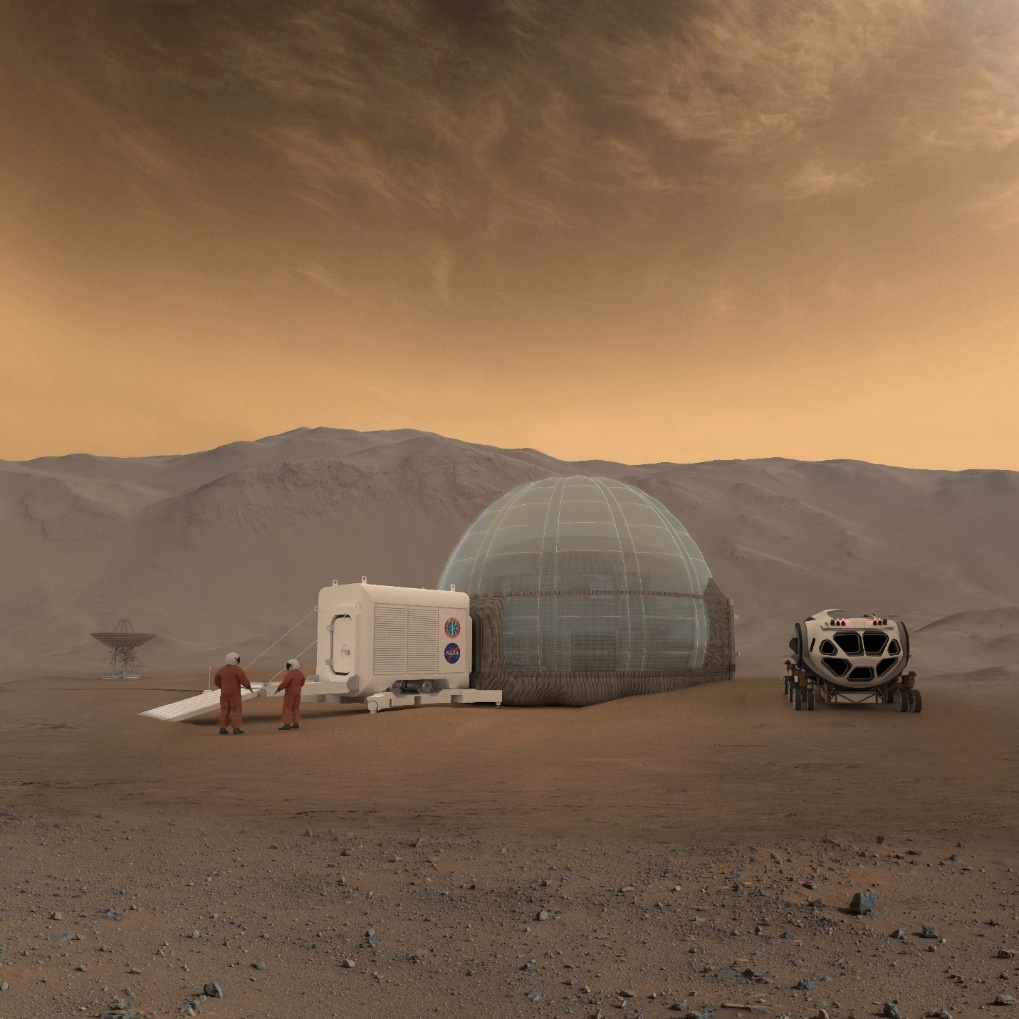
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Picture 1. Moon Base



Picture 2. Mars Base