

17th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE (D4)
Interactive Presentations - 17th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE
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MOON SETTLEMENT (WITH MARS-USE POTENTIAL) TECHNOLOGY

Abstract

Purpose: Extraterrestrial intelligent infrastructure with effective energy supply and catastrophe recovery mode.

Methodology: It no matter where we are or will go. We need always energy. The more the energy the more the production we will reach from it. The Moon is the first step to find a (cheap) solution for energy outer Earth. When it will work, the solution could be easier to reproduce on Mars and new worlds. The plan on the Moon is to build a small and thin rail (with one or two trucks according to the intended size and disposable money) like a circle at the north pole and a moveable with variable speed and direction machine on it. There are no buildings yet and water is there. The gravity is 1/6 than that on Earth and moving consumes are inferior. The machine functions like a train following the sunlight, changing speed (slow or faster) and direction (in respect to the Moon rotation or contrary) according to the stronger solar radiation to capture the most of it and convert it in energy. When it is not more possible to escape the shadow it will go so fast as possible in the same direction of the Moon rotation to pass quickly through the shadow. During the rolling on the rails it can (timeless) built parts of buildings and infrastructures using materials on the Moon. Ones finished, they can be let on designed places along the road and robots can assemble them in incremental buildings. In a near future an other rail must be build at the sud-pole and join the first one with a Z-rail to serve as backup in case of meteorites rain and allow persons and critical machines to be safe transferred to the other pole of the Moon, reducing the damages and allowing to rebuild lost infrastructures. As Z-rail the machine will continue to charge his batteries with energy if it travel during the day to reach the other pole.

Results: Permanent production of energy, locally production of items, manageable day-duration, catastrophe recovery mode, personal safety.

Conclusions: It is a cheaper, safe and manageable solution with the flexibility to be arbitrary divided in phases.