

Project Name

ECOCAPSULE

Designer

Nice Architects (Tomas Zacek, Igor Zacek, Sona Pohlova, Matej Pospisil)

Company Name

Ecocapsule

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Description of innovation social values

- product category
- formal and functional features
- problems solved by innovation
 - user
 - field of application

Ecocapsule is smart house powered by the solar and wind energy. It allows people to extend off-grid stay almost year-round. It can serve as micro-house, cottage, pop-up hotel or even as charging station for electric cars. Each unit is equipped with folding double bed, table, kitchenette, storage and toilet with shower. It complies shipping container regulations. Therefore, it can transported all over the world with ease and low expenses. Technologies pioneered on Ecocapsule have potential to change traditional urban schemes and could significantly impact habitation around the globe. Due to its easy and fast deployment it could work as a shelter for doctor or rescue teams during humanitarian operations. It could be in two versions: 1. free standing as house, 2. after application of undercarriage underneath the house , you will get caravan

Description of technical features

- operation
- technology

Unit is powered purely with electricity provided by sun and wind. Unit also allows collecting of rain water. Description of main systems below:

Power system - wind turbine with installed power output 750w, noise level 7 db(A), high efficiency solar cell with maximum power output 600W,4x Battery 220Ah with cumulative capacity 10560Wh, heating and A/C

Water management system - water tank with filters, grey water tank , rain collection system, composting toilet, shower, sink, water pumps both mechanical and electrical , burning of waste with dump heat

Dimensions

Length 4.48m, Width: 2.24m, Height 2.62m/4.5m with extended wind turbine
Weight: 1.200kg/ 1.900kg with full water tanks

Materials

Shell is fiberglass with aluminium construction and high capacity thermal insulation (PUR Foam or Aerogel), car paint or car foil exterior finish, various interior finishes, triple glass openable windows with plastic cover . interior is mostly wooden

Certification

Eurocodes

Benefits for environment

very ecologic as it powered only with energy from sun and wind , zero carbon footprint, no trace after removal of the unit

Benefits for human being

expanding of civilisation into nature without leaving a trace, downsizing of space requirements for living, education of the users to be energy conscious

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