EV Living and Consumption Problems

EV Living Problems

- 1) Gasoline car pollution, smell, and high fuel and maintenance costs
- 2) Gasoline car noises using electricity/AC and driving
- 3) Small living spaces for cars
- 4) RV or vans less practical
- 5) Privacy issues
- 6) Bedroom & storage
- 7) Kitchen & refrigerator
- 8) Bathroom & no in-car shower kit
- 9) Living or work/study room
- 10) Laundry and de wrinkle
- 11) Hot during daytime/summer and loud rain/tree drops
- 12) Cold and moisture during winter
- 13) Mosquitoes and bugs
- 14) Rain, sound, and car cleaning

EV Consumption Problems

- 1) Refrigerator issues
- 2) Electricity consumption and low wattage appliances
- 3) Electric car charging
- 4) Drink, clean, and shower water consumption
- 5) Car & insurance expenses
- 6) Accommodation kit customization
- 7) Everyday products
- 8) Food and clothing
- 9) Internet, computing, and entertainment
- **10)** Kid or pet care
- 11) Medical care
- 12) Jobs and working
- 13) Mails and personal properties
- 14) Exercises, social, and activities

EV Living Solutions

- Gasoline car pollution/smell/costs/noises: Adopt electric car for single person living/traveling w/o a small pet and low speed electric vehicle for shared or spacious living with limited mobility
- Small spaces: Designs with 3D space expansions are preferred. Organize bedroom/kitchen/bathroom/laundry and living room staff well and remove junks. Mobile or shared community storage for unused belongings. Daily trash disposal. Reuse containers or bags. Remove back and passenger seats. Convertible, foldable, or shrinkable accommodation components such as the ones of bed/sofa/storage, desk/sink/storage/trash/toilet/refrigerator, expandable/raised/open car roof designs, etc. Hang clothes/towers on bars. Attached tent. Temporary low speed vehicle, community, or out of car living
- Privacy issues: (Electrochromic/smart) window tint. Custom fit sunshades or soundproofing curtains for all front/back/side windows. Car hanger bars with curtains or clothes

Bedroom & storage: Without removing car seats, use luggage, folding seat's back, and refrigerator to support a trifold single firm foam mattress with a cushion and swimming tower to adjust foot and head heights. With seats removed, get/customize a bed-sofa-storage platform like or Ikea Brimnes Daybed. Use or one with pillow for bed













EV Living Solutions

Bathroom: Pee bottles. Potty toilet with flat lid as small desk on the folding seat back mainly for pees along with biodegradable twice reuse pee bags and outside car pooping. A camping toilet with seats removed. Public restrooms. Biodegradable or plant based personal care products. Use mouth rinse and baby/face wipes for makeup removal or face cleaning at night and water bottle and trash can or a camp sink for teeth/face cleaning with toothpaste/cleanser during daytime; Solar shower bag. Public showers at gyms, truck stops, beaches, camp sites, etc. Low wattage hair dryer and straightener. Overnight hair curling kit with hair spray

Customized sit-in-car shower kit: Electric water heater element or water boiler. To customize a sit-in-car shower tent with a solid foldable detachable 5+ gallon waste water draining container base, shower head and stuff holders at the top, and hung with two hanger bars and fixed with the external/internal seat bands to also drain the water. Shower water container and shower pipe with foot pump outside the tent. Optional seat cushion outside tent for downward water flow. With seats removed, place a foldable seat inside the simplified shower tent.



EV Living Solutions

- Kitchen & refrigerator: Power inverter & low wattage cookers, refrigerator, trash can with handle, recycle bags, stainless steel or glass utensils, reusable cleaning cloths or napkins, biodegradable baby wipes, etc.
- Living or work/study room: foldable bed working desk, visible or reliable Internet plans, mobile computers and gadgets, storage top desk plus sofa
- Laundry and de wrinkle: Mini foldable washing machine. Biodegradable detergent. Hair spray & dryer with clothes hanger bars to de wrinkle. Laundry rooms
- Hot and sound issues: Large automatic car umbrella/cover/tent for cooling during daytime, reducing rain/tree/bird drops and loudness, and dirt removal. Build-in fully automated anywhere versions preferred
- ☑ Cold and moisture during winter: Car window insulation kit for winter. Reusable car dehumidifier
- ☑ Mosquitoes and bugs: Bugs out mesh window covers. Bug or disinfection sprays. Car internal cleaning

Rain, sound, and car cleaning: Rain deflectors for side windows. Roof cover. Acoustic window curtains or

windows. Foldable car cleaning kit











All mobile consumptions are covered with community jobs everywhere, community product/service memberships or subscriptions, money from external jobs, savings, etc.

- Refrigerator: A cheap storage/cooler/warmer/bed supporter. A better refrigerator with more power supply and seats removed. Dried/canned meals/noodles/veggies/fruits/beans/food. Frozen/easy/instant/prepared meals
- Electricity and low wattage appliances: Car A/C, heat, and lights. Cigarette lights and power inverters from electric cars charged periodically. Solar panels/generators to power appliances for electric cars/vehicles. Use low or up to several hundred wattage appliances, refrigerator, hotpot, and portable oven/food warmer/frying pan, hair dryer, mini washer, etc. Mini solar oven kit. Mini gas stove
- Electric car/vehicle charging: Free energy or solar panels generators to charge electric cars/vehicles. Free energy or solar powered charging stations. Mobile/autonomous/home/public electric car charging stations

Drink/clean/shower water: Water stations. Solar water pumps. Salt, lake, and other water extraction. Water

usages at community centers, parks, or many other places













☑ Car & insurance expenses: Share electric cars/vehicles if possible. The car & insurance expenses are much less with self-sustainable productions, electric car conversions, and low speed vehicles. For instance, a community electric car better than Tesla may cost 1/3 or less. Low speed electric vehicles are much cheaper

Accommodation kit customization: There are simple, regular, to advanced community accommodation kits or shared accommodations and relevant services such as mobile/shared storage, car/vehicle/accommodation/house sharing, shower/toilet/workspace/laundry/kitchen, etc.

Everyday products: Sustainable/biodegradable/reusable everyday products include baby wipes, toilet papers, kitchen cloths, tooth brushes/pastes, personal care products, make ups, cleaning stuff and detergents, etc. Users get them periodical at charging stations, community centers, autonomous mobile stations, etc.









- Food and clothing: Users obtain the dried, frozen, easy, cooked, and other meals, veggies, fruits, milks, eggs, nuts, rice/beans, herbs, meats, seafood, seasonings, etc. at charging stations, community farms, autonomous mobile stations, etc. Certain varieties of sustainable cost effective food and clothes are provided or shared for different seasons, places, ages, genders, styles, cultures, etc.
- Internet, computing, and entertainment: Users leverage cost effective 5G small cell facilities easily mounted everywhere to deliver higher data rate. Phones and computers will merge as single ultraportable ultracompact ultralightweight Linux computing and entertainment systems. Hardware/chip/accessories will sustain longer and be recycled. More frequently updated OS/software/apps enrich our experiences/opportunities
- Kid/pet care: Babies/young kids generally live in the community center, day care facilities, or shared houses with frequent or daily parents in-person/online visits/cares. Older kids can share bigger electric vehicles with parents. Get kid care help from others when appropriate. Small pet like cat can share the electric car with its owner
- Medical care: Utilize natural cost effective traditional Chinese medical practices and home remedies to treat majority of illnesses, and community or mobile hospitals, clinics, pharmacies, and medical care. Get medical care help from others when possible. Reduce sicknesses and costs with proactive medical advices or treatments

















- ☑ Jobs and working: Community jobs include productions, maintenance/support, and upgrade/innovation of all community consumptions everywhere. Jobs are optimized and matched based on personal backgrounds or interests. Job trainings and transfers are provided on demand or proactively. Partnering or relevant external jobs are also facilitated. There are workspaces and relevant facilities in electric cars/vehicles, community centers, charging/consumption stations, and public/travel sites
- Mails and personal properties: Accesses to virtual mailboxes. Selected mail forwarding to nearby locations. Personal properties are priced and many of them are also community properties. They are stored remotely/locally and can be retrieved and forwarded to owners or shared

Exercises, social, and activities: Gyms, sport, social, and common activity facilities are provided in community centers, charging/mobile stations, and public places. Relevant apps and assistance facilities provide intelligent proactive matching of people/exercises/activities with similar, complementary, or helpful interests, backgrounds,



