

DAHSE-WALK HOUSEHOLD ELECTRICAL LOADS

You can easily run all of this stuff on sixteen, 120/135-watt solar panels charging (10) 98 amp-hour, 12-volt lead-acid gel storage batteries. (Not all at once, of course!)

GENERAL HOUSEHOLD SYSTEMS

23 **Lights** (All L.E.D.- type, ranging from 4 to 8 watts – all DC)

Water **Pressure Pump** (12-volt DC)

10 gal. **Water Heater** (diverted solar DC)

DC Composting Toilet **Fan**

DC Ceiling **Fan**

AC Table **Fan**

Battery **Chargers** for Cordless Tools

Battery **Chargers** for Rechargeable Batteries

AUDIO EQUIPMENT

Stereo **Preamplifier-Tuner**

1000 watt Stereo **Amplifier** (DC)

2 Mini-Disk **Recorder/Players**

CD Player

Frequency Band **Equalizer**

AM/FM/Short-wave **Radio** (DC)

VIDEO EQUIPMENT

24" Widescreen Digital LCD **Color TV** (DC)

Amplified External **Antenna** (DC)

Additional internal **video amplifier**

1 Hard Drive/**DVD Recorder**

OFFICE EQUIPMENT

Laptop Computer

Color Ink Jet **Printer**

USB Hub (DC)

Huawei Fixed Wireless Terminal (DC Cell

Phone System with exterior yagi antenna)

ViaSat Satellite **modem**

CRAFT EQUIPMENT

Iron, Soldering Iron, and Woodburning Tool

HOUSEHOLD EQUIPMENT

Kitchen-Aid **Mixer**

Phillips "Stick" **Blender**

1 HP **Flour Mill** (DC)

12-amp **Vacuum Cleaner**

Haier **Washing Machine**

Small 75 watt **Refrigerator** (diverted solar DC)

12-volt, 30-660-watt **DC oven/slow cooker**

Rival 900-watt **AC stove-top** burner

Deni 1500-watt **AC stove-top** burner

OUTDOOR EQUIPMENT

AC **Bench Grinder**

16" Cordless **Lawn Mower** (solar DC charge)

12-volt Cordless **String Trimmer**

120-volt AC Mantis **Rotary Tiller**

1/3 HP **Irrigation Pump** (for garden)

12 volt Electric **Fence Charger** (DC)

MOTIVE EQUIPMENT

2 Electric Tricycles with 36-volt Lithium battery packs charged directly from 2 PV panels as 40-volt DC

1979 Porsche 924, converted to electric drive with (12) 98 amp-hour lead-acid gell batteries, charged with an on-board AC charger or directly from 6 PV panels as 48-volt DC

1971 G.E. Elec-Trak Garden Tractor with mower & tiller, (6) 235 amp-hour lead-acid batteries, charged directly from 6 PV panels as 36-volt DC

Conservation, appropriate system sizing, and mindful consumption are the keys to a successful alternative energy home.

The solution to pollution is the solar revolution!