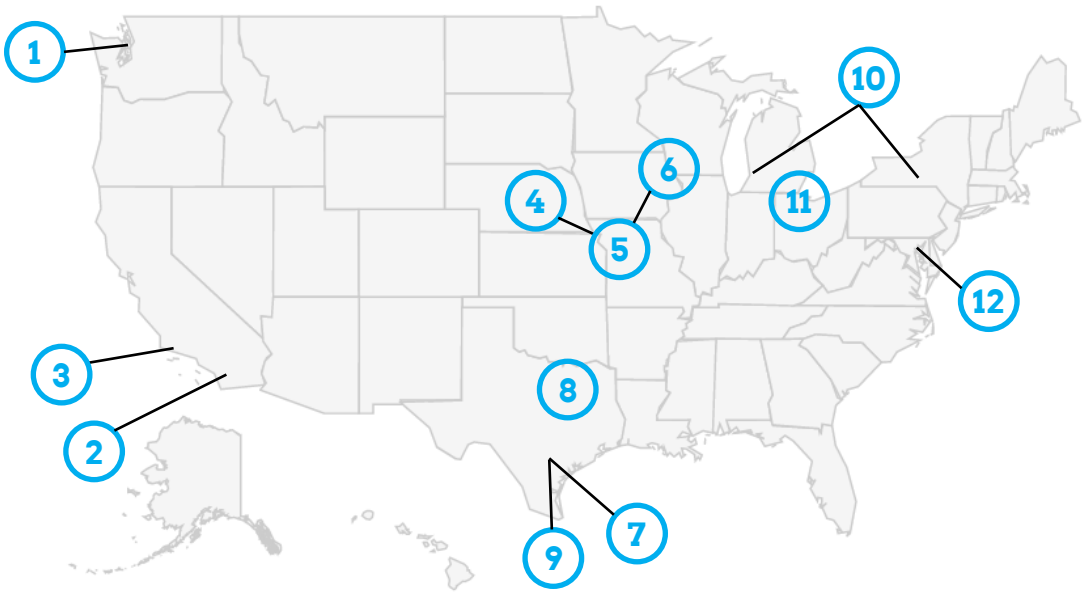
Open Source Ecology

The May and Stanley Smith Charitable Trust

Letter of Inquiry

February 09, 2012

National Development Map



1 Gasifier/Burner (*link*)

Seattle, Washington

Larry Dobson

The *Gasifier Burner* converts biomass fuel into power and useful chemicals. It is currently in the **Design** stage of development.

2 Ironworker (*link*)

San Diego, California

Brianna Kufa

The Ironworker, serving as the backbone of many fabrication shops, combines a punching machine, plate shear, section shear, punch and shear machine, and a coper-notcher. It is currently in the **Prototyping** stage of development.

3 Replication (*link*)

Pasadena, California

D&H Tractors

Daniel & Hayden are replicating the *LifeTrac* design with their high school engineering class and plan to donate it to the *Los Angeles South Central Farmers*, subject of the *Academy Award* nominated documentary **The Garden**.

4 CNC Circuit Mill (*link*)

Factor e Farm, Missouri

Yoonseo Kang

The *CNC Circuit Mill* enables automated production of electronic circuit boards, and, as a GVCS technology, it enables automation functionality. It is in the **Prototyping** stage of development.

5 OSE Headquarters (*link*)

Factor e Farm, Missouri

Marcin Jakubowski

Factor e Farm is the central location of development and training; hosting the **OSE Fellows** at a 30-acre permaculture farm held as a community trust. We have a 3,000 sf fabrication and traning facility and 10 living units for visitors.

6 Saw Mill (*link*)

Maysville, Missouri

Sweiger Shop

The *Sawmill* converts felled logs from trees into dimensional lumber, and it enables a range of well-established wood construction techniques. It is in the **Prototyping** stage of development.

7 Replication (*link*)

Austin, Texas

James Slade

James did a dedicated project visit at *Factor e Farm,* learning to build GVCS machinery, and he returned home to replicate the *Compressed Earth Brick Press* and *LifeTrac*.

8 Replication (*link*)

Dallas, Texas

Tom Griffing

Tom did a dedicated project visit and returned home to build a refined version of the hydraulic power unit. He actually improved on our designs, which is exactly what we hoped to see. He plans to build the *LIfeTrac* next.

9 CNC Plasma Cutter (*link*)

Austin, Texas

Luke Iseman

The *CNC Torch Table* is a capable of cutting intricate designs out of metal with a 2-axis torch controlled by computer. It is in the **Prototyping** stage of development.

10 Steam Engine (*link*)

Berrien Springs, MI/Willseyville, NY

Tom Kimmel/Mark Norton

The *Steam Engine* is capable of converting steam generated by a solar concentrator into power that can be used to generate electricity or drive the machinery of the GVCS platform. It is in the **Prototyping** stage of development.

11 Heat Exchanger (*link*)

Detroit, MI

(N/A)

The heat exchanger generates steam to power steam engines or steam turbines, while excess heat can be used to create warmth for a home or greenhouse. It is in the **Prototyping** stage of development.

12 Replication (*link*)

Baltimore, MD

Andrew Spina

Andrew is building a *Power Cube* and a *LifeTrac* based solely on our distance learning materials.