### Sources of Puha

1. **Domestic hot water.**
   - The sculpture’s geometrical structure encourages the recycling of geothermal energy. The spiraling metal structure that crowns the sculpture is an aluminum frame holding a spiraling copper coil acting as a heat exchanger between soil and sky, and a horizontal spiraling series of pools, returning water back to the landscape.
   - The spiral shaped geothermal pools that are structures that work symbiotically with Nature: they are geothermal heat exchangers, connecting soil and sky.
   - Their geometry is inspired by the formation of the Fly geyser, combining a vertical spiraling heat exchanger, connecting soil and sky, and a horizontal spiraling series of pools, returning water back to the landscape.
   - For the full scale sculpture, 2500m of copper tube, 650m of aluminum beams are needed. The depth of the drill depends on geological surveys.

2. **Domestic cold water.**
   - The underground well releases the fluids where water is cooled by the heat produced by the natural reactions in Earth’s core. The hot mineralized water is first sent to a man-made geyser growing over time.
   - The temperature for heating and cooling of any building on site (floor and wall insulation, bathrooms, cooking, kitchens...) can be directly or mixed with cool water from the artesian wells to reach ideal temperature for heating and cooling of any building or site (those using heating/cooling), water exchanger to produce domestic water, a heat to vapor exchanger for domestic heat, a vapor to water exchanger to produce electricity and cascading thermal pools for body wellness.
   - It is the power that moves the elements, plants, and animals... It is the power that gives life to the physical world.
   - The Northern Paiutes believe in a force called Puha that gives life to the physical world. It is the power that moves the elements, plants, and animals. It is the power that gives life to the physical world. It is the power that gives life to the physical world.

3. **Electricity.**
   - Sources of Puha want to embody this holistic energy in striking and integrated artworks, a harmonious hybrid sculpture emerging from the Orange County and metaphysical geologic landscape of the Black Rock Desert.
   - To produce sustainable electricity, the heat from the geyser is transferred to a loop containing a low boiling point fluid that can vaporize at lower temperature. This vapor powers a turbine producing electricity. To be reused, this fluid needs to be condensed back to liquid form. To do this, a thermal exchange process that produces steam electricity, in a holistic definition.
   - The Northern Paiutes believe in a force called Puha that gives life to the physical world. It is the power that moves the elements, plants, and animals.
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4. **Thermal baths.**
   - As the water from the geyser moves from pool to pool, it cools and its vegetation.
   - After heating the copper coils, the water from the geyser would be used to recycle the heat to power a turbine producing electricity. In order to be reused, this fluid needs to be condensed back to liquid form. To do this, a thermal exchange process that produces steam electricity: the heat from the geyser is transferred to a loop containing a low boiling point fluid that can vaporize at lower temperature. This vapor powers a turbine producing electricity. To be reused, this fluid needs to be condensed back to liquid form. To do this, a thermal exchange process that produces steam electricity.

5. **Mineralized water.**
   - A 1/5 scale prototype would need 20% of the listed materials.
   - The Northern Paiutes believe in a force called Puha that gives life to the physical world. It is the power that moves the elements, plants, and animals.
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### Material Needs

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper tube</td>
<td>2500m</td>
</tr>
<tr>
<td>Aluminum beams</td>
<td>650m</td>
</tr>
<tr>
<td>Drilling</td>
<td>as needed</td>
</tr>
</tbody>
</table>

### Sources of Puha

Sources of Puha want to embody this holistic energy in striking and integrated artworks, a harmonious hybrid sculpture emerging from the Orange County and metaphysical geologic landscape of the Black Rock Desert.

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**Diagram**

1. Copper coil heat exchange (vertical spiraling coil)
2. Aluminum structure anodized in copper finish (vertical frames)
3. Mineral deposit, man made geyser growing over time
4. Ferrocement pools, water temperature decreasing from higher to lower
5. Heat exchanger for domestic water
6. Heat to vapor exchanger for domestic heat
7. Heat to water exchanger for body wellness
8. Engineered pools, water temperature decreasing from higher to lower
9. Condenser coil
10. Aluminum beams
11. Temperatures ranging from 40°C/104°F to 20°C/68°F
12. Temperatures ranging from 35°C/95°F to 30°C/86°F
13. Temperatures ranging from 80°C/176°F to 60°C/140°F
14. Temperatures ranging from 50°C/122°F to 30°C/86°F
15. Temperatures ranging from 15°C/59°F to 5°C/41°F

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**Notes**

- prototype to be built on site for testing the heat exchange systems.
- The last pool would be the largest and deepest, allowing for swimming. Its temperature would be perfect for thermophilic bacteria to flourish and give a lush environment.
- The pools are semi-buried in the landscape and filled with mineralized water from the geyser, ranging from 60°C/140°F to 30°C/86°F.
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- A 1/5 scale prototype would need 20% of the listed materials.