**REGENVILLAGES | Almere, Netherlands**

Size: New construction; Greenfield size: 4 acres, 75-100 residents

Dates: 2016-ongoing

Team: ReGen Villages Holding, B.V. R-Gen, Incorporated-Delaware C-Corp, ReGen Labs

Description: RegenVillages are planned, prefabricated villages designed for self sufficiency and able to be constructed in any location

Intent: Self sufficiency, net positive energy, closed loop waste to resource systems, able to be constructed anywhere

**GOALS:** (Food) Not defined; (Habitat+Biodiversity) Not defined; (Transport) Not defined

**STRATEGIES:** (Food) Aquaponics that recycle grey water and provide nutrients to food production, organic vertical farming located within the village; (Habitat+Biodiversity) Closed waste to resource loops, water purification, likely landscaping and storm water retention ponds; (Transport) Within the village there are no roads for cars. It is unclear how they will connect to the greater community

**GOALS:** Not defined

**STRATEGIES:** Landscaping for water retention, storm water is collected, on-site treatment for water, separation of greywater, recycle water through aquaponics and greenhouse, efficient appliances

**GOALS:** Net positive energy producing, 100% + renewable energy

**STRATEGIES:** Regen villages will be net-positive energy producers using renewable energy, designed for off-grid capabilities, employ a smart grid, generate power through solar panels, biomass, geothermal, wind and biogas from community waste

Percentage of affordable units: Not defined

**GOALS:** Not defined

**STRATEGIES:** Walkable community, biophilic design, gardens, greenhouses attached to homes. Designed to be high-end living

**GOALS:** (Materials) Not defined; (Waste) Not defined

**STRATEGIES:** (Materials) Not reported; (Waste) Greywater recycling, compost waste to energy, recycling, buildings will be prefabricated and deconstructable, they are designed to meet passive house standards
## SUSTAINABILITY MATRIX

<table>
<thead>
<tr>
<th>Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.regenvillages.com/">http://www.regenvillages.com/</a></td>
<td>RegenVillages, Almere, Netherlands</td>
</tr>
<tr>
<td><a href="https://sustainabledevelopment.un.org/content/documents/622766_Ehrlich_Integrated%20village%20designs%20for%20thriving%20regenerative%20communities.pdf">https://sustainabledevelopment.un.org/content/documents/622766_Ehrlich_Integrated%20village%20designs%20for%20thriving%20regenerative%20communities.pdf</a></td>
<td>Sustainable development for regenerative communities</td>
</tr>
<tr>
<td><a href="http://www.digitaltrends.com/home/regen-villages-produces-own-food-and-energy-netherlands/">http://www.digitaltrends.com/home/regen-villages-produces-own-food-and-energy-netherlands/</a></td>
<td>RegenVillages produces its own food and energy</td>
</tr>
</tbody>
</table>

### Limits to Growth
- **Standing**: Developed for density, limits growth, contains open space
- **Good**: Urban Ag contributes to communities food source, integrated opportunities for agriculture using Floor Area Ratio
- **Better**: Urban Ag contributes to communities food source, integrated opportunities for agriculture using Floor Area Ratio

### Urban Ag
- **Standing**: Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped
- **Good**: Promotes walkable streets, bicycle infrastructure, access to some services
- **Better**: Promotes walkable streets, bicycle infrastructure, access to some services

### Habitat Exchange
- **Standing**: 100% community water needs met by captured precipitation or closed loop water system, all water discharged treated and managed at the community scale: reuse or infiltration
- **Good**: 100% community water needs met by captured precipitation or closed loop water system, all water discharged treated and managed at the community scale: reuse or infiltration
- **Better**: 100% community water needs met by captured precipitation or closed loop water system, all water discharged treated and managed at the community scale: reuse or infiltration

### Human Powered Living
- **Standing**: Standard construction & material selection
- **Good**: Standard construction & material selection
- **Better**: Standard construction & material selection

### Civilized Environment
- **Standing**: Nothing considered/not reported
- **Good**: Community has some organization and collaborates on 1-2 of the living community listed programs
- **Better**: Community has some organization and collaborates on 1-2 of the living community listed programs

### Healthy Neighborhood Design
- **Standing**: Some access to walking trails that connect to amenities, parks, recreation areas
- **Good**: Some access to walking trails that connect to amenities, parks, recreation areas
- **Better**: Some access to walking trails that connect to amenities, parks, recreation areas

### Biophilic Environment
- **Standing**: Nothing considered/not reported
- **Good**: Innovative landscaping using native plants, rain gardens, constructed wetlands, access to parks, waterfront, community gardening
- **Better**: Innovative landscaping using native plants, rain gardens, constructed wetlands, access to parks, waterfront, community gardening

### Resilient Community Connections
- **Standing**: Nothing considered/not reported
- **Good**: Standard construction & material selection
- **Better**: Standard construction & material selection

### Living Material Plan
- **Standing**: No embodied carbon measuring or offsetting greater than code
- **Good**: No embodied carbon measuring or offsetting greater than code
- **Better**: No embodied carbon measuring or offsetting greater than code

### Embodied Carbon Footprint
- **Standing**: Standard construction, material selection, and waste collection
- **Good**: Standard construction, material selection, and waste collection
- **Better**: Standard construction, material selection, and waste collection

### Net Positive Waste
- **Standing**: Project is designed to create human-scaled places, promotes culture and interaction
- **Good**: Project is designed to create human-scaled places, promotes culture and interaction
- **Better**: Project is designed to create human-scaled places, promotes culture and interaction

### Human Scale and Humane Places
- **Standing**: Access to parks, promotes sense of place, some daylighting strategies for buildings
- **Good**: Access to parks, promotes sense of place, some daylighting strategies for buildings
- **Better**: Access to parks, promotes sense of place, some daylighting strategies for buildings

### Universal Access to Nature and Place
- **Standing**: Some services & community centers in development accessible by bike or walking
- **Good**: Some services & community centers in development accessible by bike or walking
- **Better**: Some services & community centers in development accessible by bike or walking

### Universal Access to Community Services
- **Standing**: No contribution to charity
- **Good**: No contribution to charity
- **Better**: No contribution to charity

### Equitable Investment
- **Standing**: Eco-literacy is continually built and engaged throughout the community
- **Good**: Eco-literacy is continually built and engaged throughout the community
- **Better**: Eco-literacy is continually built and engaged throughout the community

### Beauty and Spirit
- **Standing**: Eco-literacy is continually built and engaged throughout the community
- **Good**: Eco-literacy is continually built and engaged throughout the community
- **Better**: Eco-literacy is continually built and engaged throughout the community

### Inspiration and Education
- **Standing**: Eco-literacy is continually built and engaged throughout the community
- **Good**: Eco-literacy is continually built and engaged throughout the community
- **Better**: Eco-literacy is continually built and engaged throughout the community

### Sources:
- http://www.regenvillages.com/