

Vertical Axis Wind Turbine →

Service Platform →

Water Storage Tank →

Downdraft Shaft →

Exo-Skeleton →

Vertical PV Array →

Pumped Micro-Hydro →

Multi-Use Building →

BAILEY

SYNERGY TOWER™

Off-grid renewable energy generation
+ 24/7 electricity + water storage.

GENERATION

Renewable electricity is generated by

1. Downdraft tower.
2. Vertical solar photovoltaic array.
3. Vertical axis wind turbine.

STORAGE

Gravity-powered "water battery." Water is pumped up to water storage tank using excess renewable electricity. The stored energy is re-converted to electricity on demand using micro-hydro generator/s.

WATER

System captures rainfall, stores and pressurizes community water supply and provides options for water purification as necessary.