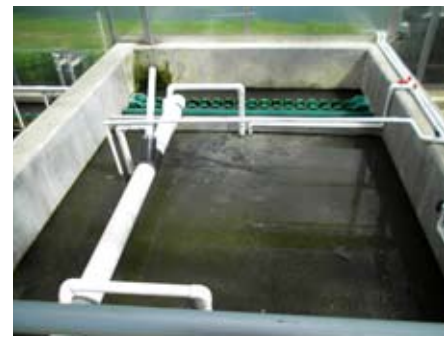
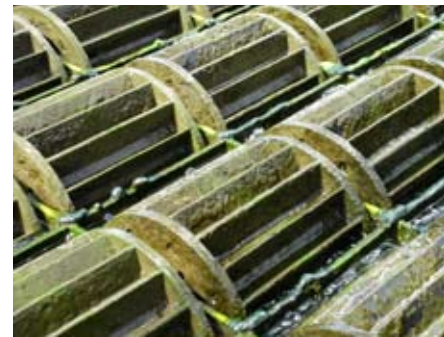


Delivering Reliability



AlgaePac™ Wastewater Treatment System

Featuring Algaewheel® Technology

oldcastleprecast.com/wastewater

AlgaePac™ is a package plant system for decentralized wastewater treatment in locations where connecting to a sanitary sewer is not possible due to cost, availability, or where the municipal system is near capacity.

AlgaePac™ combines AlgaeWheel® technology, simple clarification processes enhanced by the natural coagulating effect of algae filaments, and disinfection to provide effluent treated to secondary or tertiary standards. *Typical applications include:*

- Subdivisions
- Institutional and educational facilities
- Commercial development
- Government facilities
- Resorts and hotels
- Mobile home parks

AlgaePac™ Features and Benefits

- Low energy
- Low maintenance
- Reduced carbon footprint
- Provides secondary and tertiary treatment
- Advanced ecological treatment using solar energy
- Nitrogen removal without nitrification and denitrification
- Phosphorous removal by direct conversion to plant biomass
- Renewable biomass source for biofuel production, fertilizer, or cogeneration

Oldcastle Precast is dedicated to protecting natural resources. AlgaePac - designed with the environment in mind...

GREEN PRODUCT

- Solar energy for treatment
- No-energy gravity flow for clarification
- Low-energy air to turn wheels
- Major components are manufactured with Green concrete:
 - Produced using high-performance, water-reduced concrete
 - Incorporate recycled materials for increased durability
 - Manufactured Locally

How Does it Work?

The AlgaePac™ System uses simple technology to bring wastewater treatment to a whole new eco-friendly level. AlgaeWheel® technology is at the heart of the AlgaePac™ system and provides a diverse ecological environment for effective wastewater treatment utilizing the symbiotic relationship between algae and bacteria.

AlgaeWheels are designed to provide an ideal environment for algae and bacteria to thrive.

- Unique three-dimensional design provides optimum surface area for growth
- Algal growth converts inorganics into food for bacteria
- Bacterial growth converts organic carbon into food for algae
- Internal bio-media enhances bacterial growth

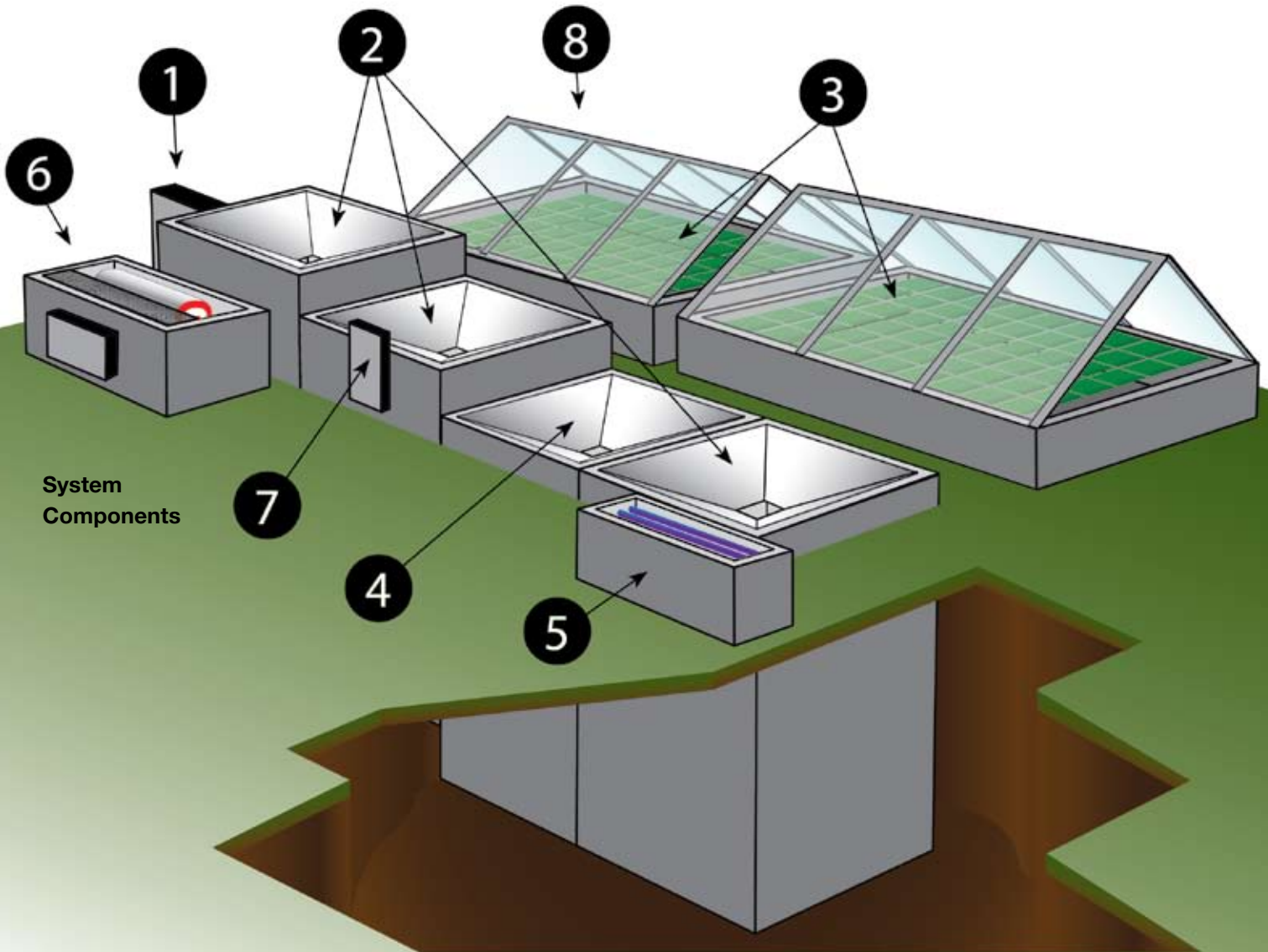
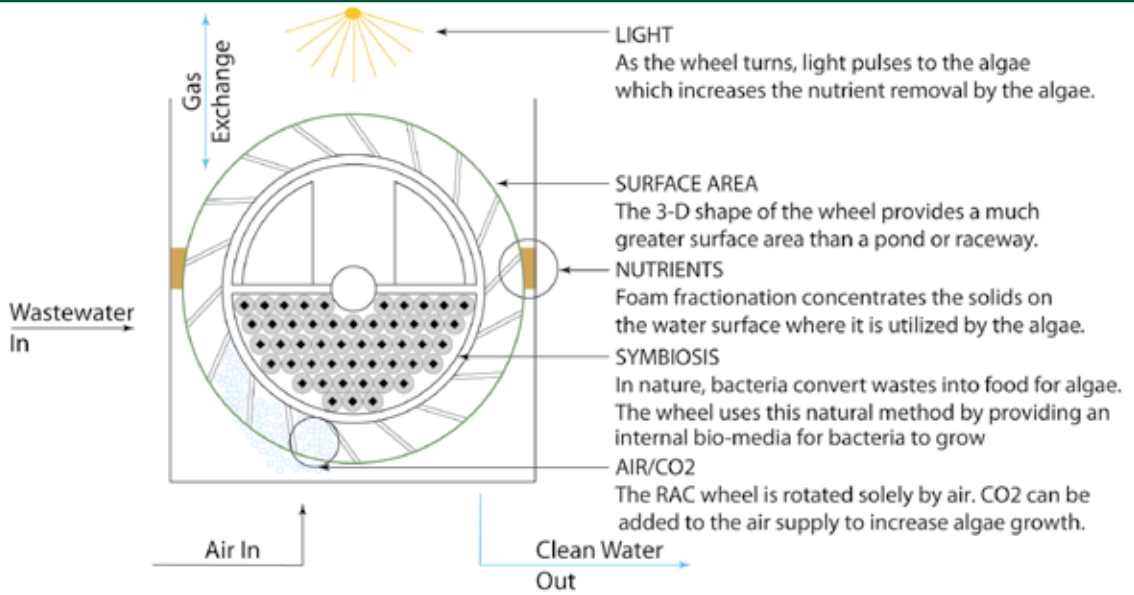
Typical System Components include:

- 1 Bar screen – to remove unusually large solids.
- 2 Primary, secondary and tertiary clarifiers - used to remove solids and valuable algae biomass. Clarification is enhanced by natural coagulating properties of algae.
- 3 Algae production tanks (with wheels) - remove nitrogen and phosphorous.
- 4 Biomass/Digester tank for collection and/or digestion of biomass.
- 5 Disinfection and Post Aeration – chlorine or ultra-violet disinfection and post aeration if required.
- 6 Dewatering – project specific equipment for biomass dewatering in larger applications.
- 7 Controls – simple electrical controls for system operation and monitoring.
- 8 Greenhouse - in colder climates, a greenhouse enclosure is used to provide controlled conditions for algae growth. Alternatively, individual covers fit over algae production tanks only

AlgaePac™ Wastewater Treatment System

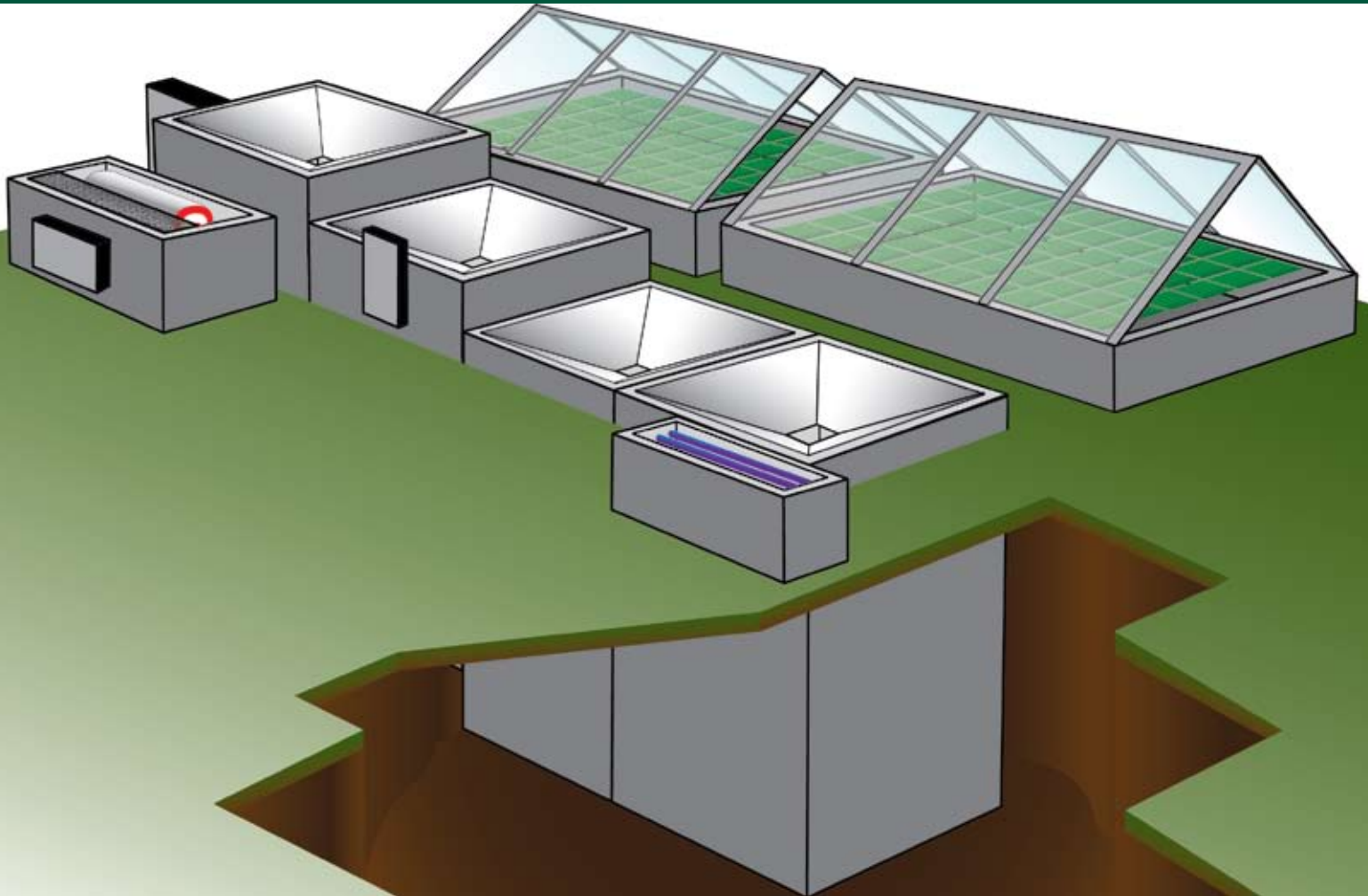
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Algaewheel Process



AlgaePac™

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Oldcastle Precast

Oldcastle Precast is the leading manufacturer of precast concrete, polymer concrete, and plastic products in the United States. With a nationwide network of facilities, our products are always close at hand. Our employees are committed to upholding core values of reliability, quality, and service in revolutionary ways. Our attention to detail exceeds the expectations of customers from some of the largest companies in the U.S., across a spectrum of industries.

Sales & Service
888-9 Oldcastle
(888-965-3227)

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