***The brief history of Greenhouses,***

Humans have been cultivating crops for thousands of years, and greenhouses are a pivotal part of food & crop production. Dating back to Ancient Rome, and later appearing again in the 1500s greenhouses, glasshouses, conservatoriums, atriums have all had their marks on Architecture thoughout history. In modern history, We first started using greenhouses for plant cultivation in the Netherlands & England in the early 17th century. The concept of greenhouse horticulture has been around for hundreds of years. Fast forward to today, & AWG Inc is taking that technology to the next level.

Glasshouses have changed in modern times to greenhouses, & those have a wide variety of designs & purposes. The most common design & use of greenhouses in modern times is for food production. A very close second is floral plant production. With many styles of building design and a wide variety of glazing materials, many productions are running inefficient & incorrect style of buildings for the end use purpose. The largest offender is the high tunnel, or hoop house as its most commonly referred to. These are designed for temporary structures & as hardening houses. More often than not we find these structures being used as permanent facilities due to their lower up front costs. Unfortunately when a high tunnel or hoop house is used in place where a real greenhouse is needed, the environmental control costs generally negate any initial investment savings, and inside a years time. High tunnels can be utilized efficiently with the proper systems & designs. Greenhouses are vital in our society for food

and plant based medicinal propogations. It is often considered the first greenhouse used for medicinal plant production was a tropical house in the 1800s. French Botanist Charles Bonaparte is widely considered the first in modern history to use greenhouses for medicinal plant productions.

In the United States from the turn of the 19th Century to the millenia, there were very few greenhouse manufacturers. The worlds largest greenhouse productions were in Europe and the middle East. After the end of the war, the United States saw a boom in new manufacturing industries, and greenhouse manufacturing made its way to the United States more consistently. Much of the 20th century saw greenhouse technologies moving towards cheaper building systems, but at a drastic cost to efficiency. New glazing materials were being tested & used in many different applications in much of the 20th century, and a new age of greenhouses began.

Greenhouses were once far too great of a financial investment, this spawned numerous styles of glazing options, & building designs. Warehouse growing solutions costs became a large scale capital venture to offset the intial costs of inefficient greenhouse systems. The need for more economical growing solutions gave rise to the common hoop house style greenhouses. These styles of greenhouses soon became more common due to their lower up front building system cost. However the initial costs savings of high tunnels & hoop houses for year round grow facilities was and still is, very short lived. The hoop house greenhouses are energy consuming monsters. While efficient for hardening houses as a pre-cursor step from

taking plants from propogation to the field, these types of greenhouses are extremely inefficient for year round growing operations in nearly all environmental conditions.

New types of glazings, new designs, & new systems continue to advance in pace with modern technology. Very little of those manufacturers took greenhouses back to the proverbial drawing board. This is where AWG Inc has invested and continually invests in product research in greenhouse and product efficiency. Partnered with resin manufacturers, fan manufacturers, & a global network of various agencies, AWG Inc specializes in the worlds most energy efficient greenhouses on the market. Our frame systems are engineered for heavy snow loads, high winds, and are still the most economical system designed to grow your future, not drain and wither it!

*Yes, we skipped over hundreds of years of history and pivitol points in history. If you are interested in the full history of greenhouses, we highly recommend signing up for the horticultural program at Pickens Technical College. You can find the link to the program on the home page.*

AWG Incs' proprietary greenhouse systems use the energy the state of the art hail proof polycarbonate panels create to disperse and hold the thermal battery of the greenhouse environment. There are many theories of how to create thermal batteries from water barrels, to forced air geo thermal systems, to a variety of numerous building designs. At AWG Inc, we have tested them all, and our proven systems are the next evolution in greenhouse

systems. Combining numerous efficient systems to create the perfect balance of efficiency, strength, longevity, affordability, AWG Inc has created the most efficient greenhouse systems for residential, commercial, and industrial use.

With decades of research in hand, & with the most advanced to-date polymers, polycarbonates, AWG Inc has the perfect greenhouse, components, or building system to suit your needs.