

IGS' Growth Towers revolutionise the commercial challenges in vertical farming and global food production

IGS Growth Towers deliver yields 2-3 times higher than those of greenhouse or open field farming techniques despite operating on a footprint of just one per cent of a hectare. Not only are they highly productive, but they are also commercially sustainable too.

Growing global population and climate change initiatives are driving the adoption of vertical farming. However, high operational costs, together with biosecurity risks and crop type limitations, are some of the current challenges facing the industry.

IGS' Growth Towers are a fully automated, modular, plug-and-play system designed to address these challenges and much more.



High quality and consistency with rapid growth. Basil for example takes 18-23 days in a Growth Tower versus 28-35 days in a greenhouse.



Crops grown in a clean environment with no pesticides required, therefore chlorinated washing isn't needed.




























Customers can easily adjust production in line with market requirements, reducing waste and increasing sustainability of their operations.



Grow to meet regional market specifications, for example, leaf size and colour.

Crop portfolio

Propagation – helping growers grow better								
 Strawberries			 Seed potatoes			 Broccoli		
Full cycle – seed-to-harvest								
 Basil	 Dill	 Parsley	 Lettuce	 Kale	 Mustard	 Sorrel	 Pea shoots	
Crops with high market demand in UK/Europe								
 Salad	 Basil		 Radish		 Beetroot		 Watercress	
Crops with high market demand in Middle East/Africa								
 Spinach	 Soft fruits		 Tomatoes		 Fodder			
Crops with high market demand in Asia								
 Coriander		 Pak Choi		 Lemongrass		 Chilli		 Spinach

Benefits and capabilities of IGS Growth Towers

✓ Our patented tower automation platform offers an environment which requires minimal human involvement.	✓ Commercially sustainable power, control and automation systems.
✓ IoT enables remote monitoring and control of all systems.	✓ Remotely monitor crops through our imaging system.
✓ Controls enabled at farm/tower/tray/ LED strip level 24/7/365.	✓ Photon optimisation through fully controllable multi-spectral lighting system.
✓ CO ₂ continuously balanced.	✓ Patented in-tray ventilation delivers uniform airflow and temperature control.
✓ Closed-loop watering system.	✓ Modular and scalable design that is biosecure and has the flexibility to cultivate a diverse range of crops.
✓ Closed-loop air sterilisation and conditioning control.	✓ Recipes optimised for different crop types with 30-50% faster crop cycles.
✓ Monitor and control the growing process on site or remotely with our Growth Tower Management Software.	✓ Designed to operate anywhere globally.

The IGS system provides solutions for the following industries



Farmers



Governments



Food processors



Farming entrepreneurs



Retailers



Restaurants