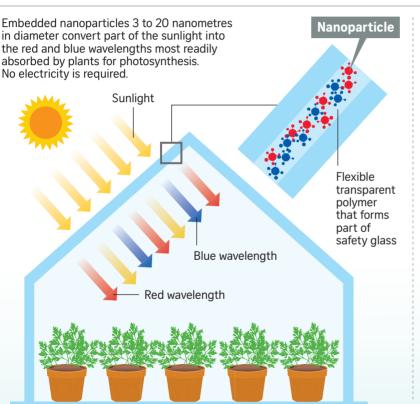
An invisible force that makes plants grow bigger

Nanyang Polytechnic partners Singapore Safety Glass to develop nanoparticles that turbocharge plant growth, with the potential to improve agricultural production.



GREENHOUSE

 Vegetables grown under the converted light, compared to those grown under normal sunlight, were on average:

190% taller, and had

40%

more leaf area

 Cost comparison with current method of enhancing plant growth using red and blue LEDs (per square metre of light):

LEDs:

\$80 to \$130 excluding electricity

Nanoparticle layer:

\$18 + \$0.20

for polymer

for nanoparticles