Navigating toward a Carbon-Neutral Future through Clean Energy Solutions 13-16 June



Deep Dive Workshop

Energy-Food-Water-Climate Nexus: Renewable Energy Solutions for Low Carbon and Resilient Agri-Food Systems

Friday, 16 June | 9:00 a.m. – 12:30 p.m. (GMT+8)

Organized by:





Hydroponics and Solar

Let's connect the dots...



A small 10-30 plant hydroponics system

Let's connect the dots...

A small 30–100 Watt solar system





A 100-25000 plant community system

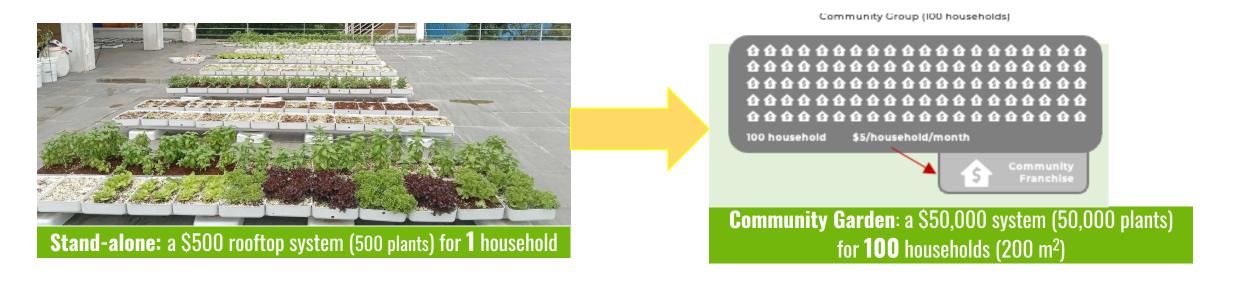
Let's connect the dots...

A 5–100 KW community solar system



A \$500 (500 plant capacity) system can produce 20-30 kg or about \$100-\$150 revenue per month with 30 hour of labor and \$5 in supplies





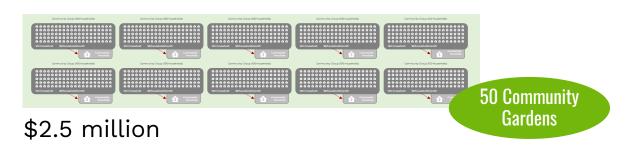
A Cluster with 50 Community Gardens

Cost: \$2.55 million (50 x \$50,000)

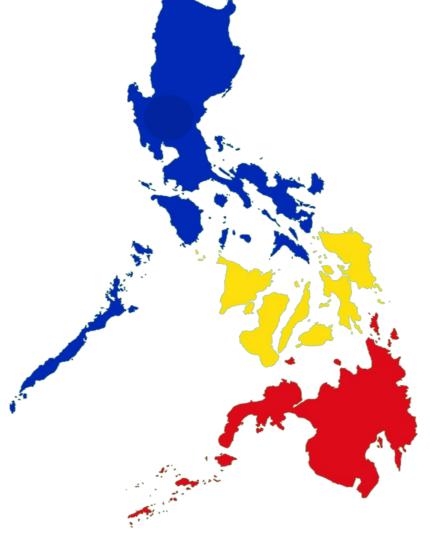
Plants: 2,500,000 plants (50x50,000 plants)

National Scaling Up





One cluster of Community Gardens in each of the **20** "**cities**" nationwide

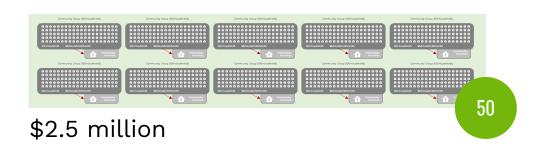


Employment for 100+ women per cluster

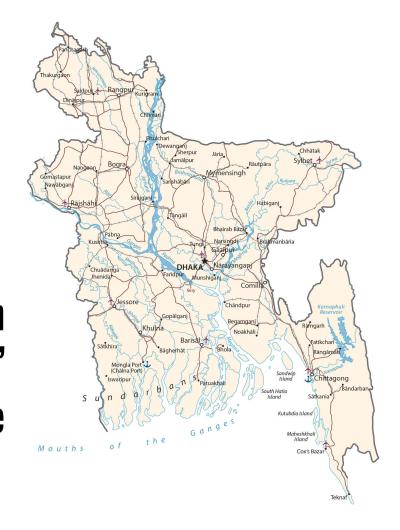
\$50 million

National Scaling Up





One cluster of Community Gardens in each of the **20** "**cities**" nationwide



\$50 million

Employment for 100+ women per cluster

National Scaling Up



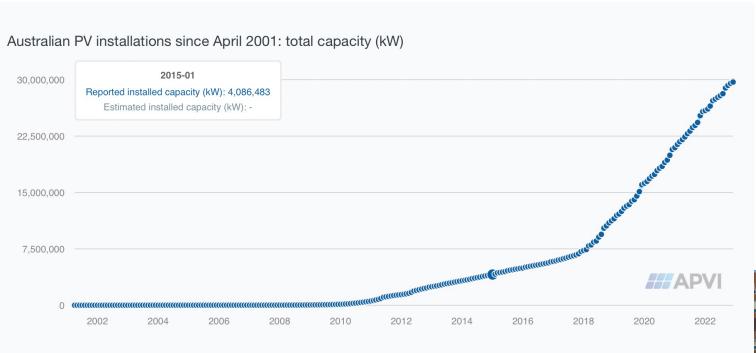


One cluster of Community Gardens in each of the 20 "cities" nationwide





Employment for 100+ women per cluster



The following graphs show the rated capacity of solar PV installed in each month. The rate of installations has been influenced by changes in the policy mechanisms that have supported this technology.

Significant peaks in monthly installations are attributable to the closures of the Solar Bonus Schemes in New South Wales (May 2011) and Queensland (July 2012), and changes to the Solar Multiplier that determines the number of Renewable Energy Certificates for which new installations are eligible (5x multiplier ended July 2011; 3x in July 2012; 2x in Jan 2013).

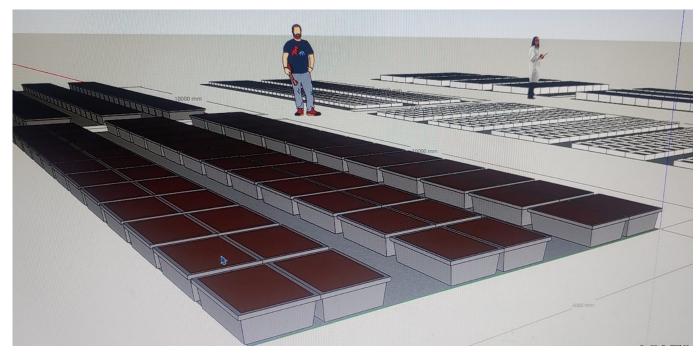
30,000 MW in 15 years!

Highest Rooftop Capacity per Capita

- **30,000** MW
- 25 million population
- 1200 Watt per Capita



INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.



\$0.5-\$1 per plant capacity



\$0.5-\$1 per Watt of installed capacity

How much will the system cost?



Sohail Hasnie

Co-Founder, Grow It Yourself-Australia | Host of Energypreneurs | Ex-Asian Development Bank (ADB)

Talks about #solarpower, #batterystorage, #impactinvesting, #hydroponicfarming, and #electricalvehicles

Email:

Energypreneurs@gmail.com shasnie@GIY-Australia.com.au

Twitter https://twitter.com/shasnie
LinkedIn https://www.linkedin.com/in/shasnie/



Spotify:

https://open.spotify.com/show/OmeteDbZwl8QuOGfd5a8kD?si=3997bb52f8a2455a

Itunes:

https://podcasts.apple.com/au/podcast/energypreneurs/id1503713708