

Energy Gardens,

Experience nature and environment in a solar park







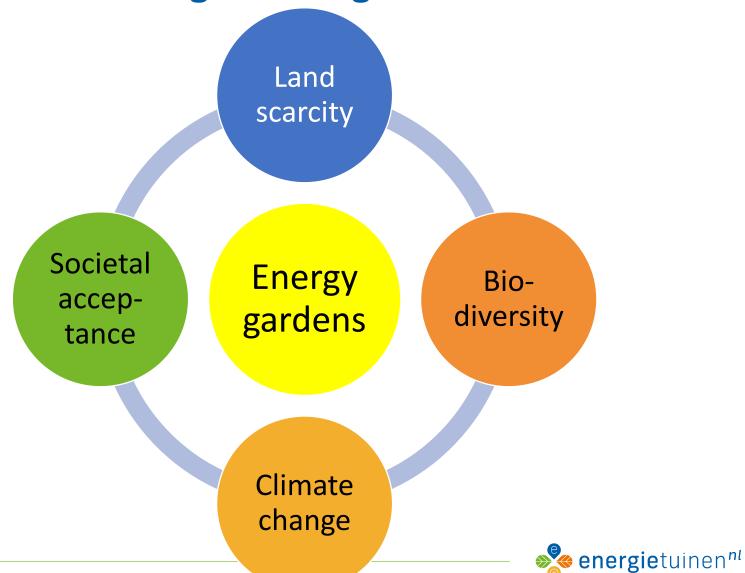


- Energy Gardens is a concept of the Nature and Environment Federations (NMF) in The Netherlands
- NMF is a non-profit NGO and serves interest and supports local nature and environment organizations, and energy cooperatives
- Focus on environmental preservation, stimulating renewable energy and preventing climate change
- NMF does not take any commercial interest in solar parks, operates independently and cost neutral. Role is to enthuse, promote, guide and support Energy Gardens, by consultancy and sharing information, knowledge and experience.



Basics

WHY: Combining challenges



Basics

HOW: Process and design principles

- Multi-purpose space use
- Engaging all stakeholders in design process and development
- Designed for humans and nature
- Renewable energy is a main ingredient

Basics

WHAT: Ingredients

Public/Accessible



Biodiversity



Recreation



Education



Food forest/agriculture



Innovation



Iconic/artistic



Participation





Pilots

Eerste Energietuinen Nederland

- Mastw Utrecht
- Wijhe verijssel
- Assen, Drenthe
- Zelk, Gelderland
- Griendtsveen, Limburg





Pilots

Main characteristics

	Area totaal	Solar park	% Societal functions	Electrical power	# Housholds
Mastwijk, Utrecht	20 ha.	12 ha.	40%	10,9 MW	3.000
Assen-Zuid, Drenthe	53 ha.	23 ha.	56%	21,3 MW	6.000
Wijhe, Overijssel	25 ha.	8 ha.	68%	7,8 MW	1.900



How to earn money with societal functions



Example

Solar Park 'de Kwekerij', Hengelo (NLD)



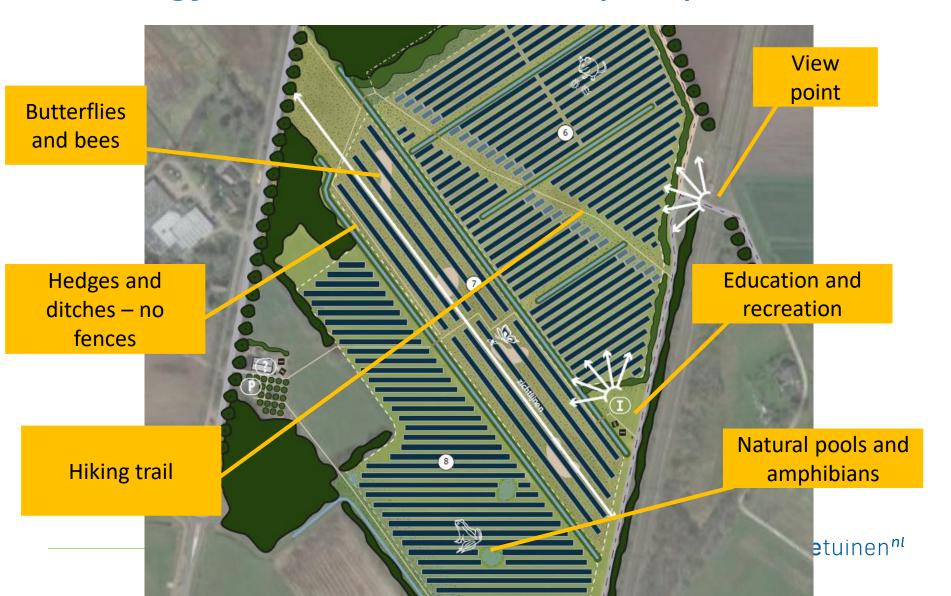






Example

Energy Garden 'Assen-Zuid' (NLD)



Example

Energy Garden 'Assen-Zuid'

Foodproduction

Hiking trail

Butterflies and bees

Hedges and ditches – no fences

Energietuin Assen Zuid

Landschappelijk ontwerp | augustus 2023



Colorful

Healthy soil

Education and recreation

View point and art

Natural pool and amphibians

nergietuinen^{nl}

Lessons learned

Some challenges

- ➤ To convince (commercial) developers and policy makers to choose for Energy Gardens in stead of traditional solar parks
- ➤ To accept lower financial return
- ➤ To create funding for the maintenance of societal functions in Energy Gardens
- ➤ To organize and support activities by volunteers and visitors in the Energy Gardens
- ➤ Local ownership is not only 'financial', but also involves 'engagement'. This needs to be accommodated by the development process



Information & contact

Thank you!

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