

Stockholm off-grid systems

images by Marcus Eliasson

The house has a continuous axis where you can see through the whole house and its view already in the entrance. Air and light enter from several directions. Inside the house, the architecture is well-thought-out for close interaction between houses, greenhouses, nature, views, togetherness and private rooms.

Drinking water is available from the property's own drilled well. The principle is that nutrients and water in the wastewater are recycled and purified in the greenhouse's plant beds, where macro and microbiota interact with the plants' root systems. The industry is converted into fruit and vegetables, whereby the cycle ends with the return of food to the homeowner.

location: Sikkhall, V¨nersborg, Sweden

architecture and engineering: Niklas Dahlström & Anders Solvarm, Naturvillan

photography: Marcus Eliasson, ERA Hus & Hem

happening this week! florim ceramiche spa creates porcelain stoneware ceramic surfaces for all architecture, building industry and interior design needs, overseeing many brands in europe, america and asia including floor gres, rex, cerim, casa dolce casa - casamood, FLORIM stone, and CEDIT - ceramiche d'italia.

The Gridless Solutions Initiative explores alternative technologies for the delivery of critical services like energy, sanitation and freshwater. The focus is on small-scale, decentralized and modular solutions that can be used to address a wide spectrum of complex socioeconomic challenges, making societies more resilient and prepared for the unexpected.

Photo:Allison Joyce / Getty໿

The Gridless Solutions initiative follows the fast development of decentralized, modular and multifunctional systems that can operate without necessarily being connected to a centralized grid. This opens for a wide range of innovations where it is possible to provide basic services such as water, sanitation and electricity even in times of crisis.

The technological shift creates many new opportunities to complement services provided through a centralized grid. People living in geographical isolation or in conflict zones can get better access to essential services like water and electricity. Gridless solutions can also help all kinds of societies become better prepared for the unexpected, for example through back-up solutions that strengthen the resilience of infrastructure in the event

of extreme weather or cyberattacks.

But the introduction of new technology and business models is not always easy. Hence, the Gridless Solutions Initiative collaborates with the private sector to shed light on which system mechanisms are needed for successful deployment and upscaling. Furthermore, the initiative helps decision-makers and regulators analyze potential justice and social acceptance issues emerging along the way. The Gridless Solutions Initiative builds on a previous project on innovation and business models for decentralized and circular water solutions, sWASH& grow﻿﻿.

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