



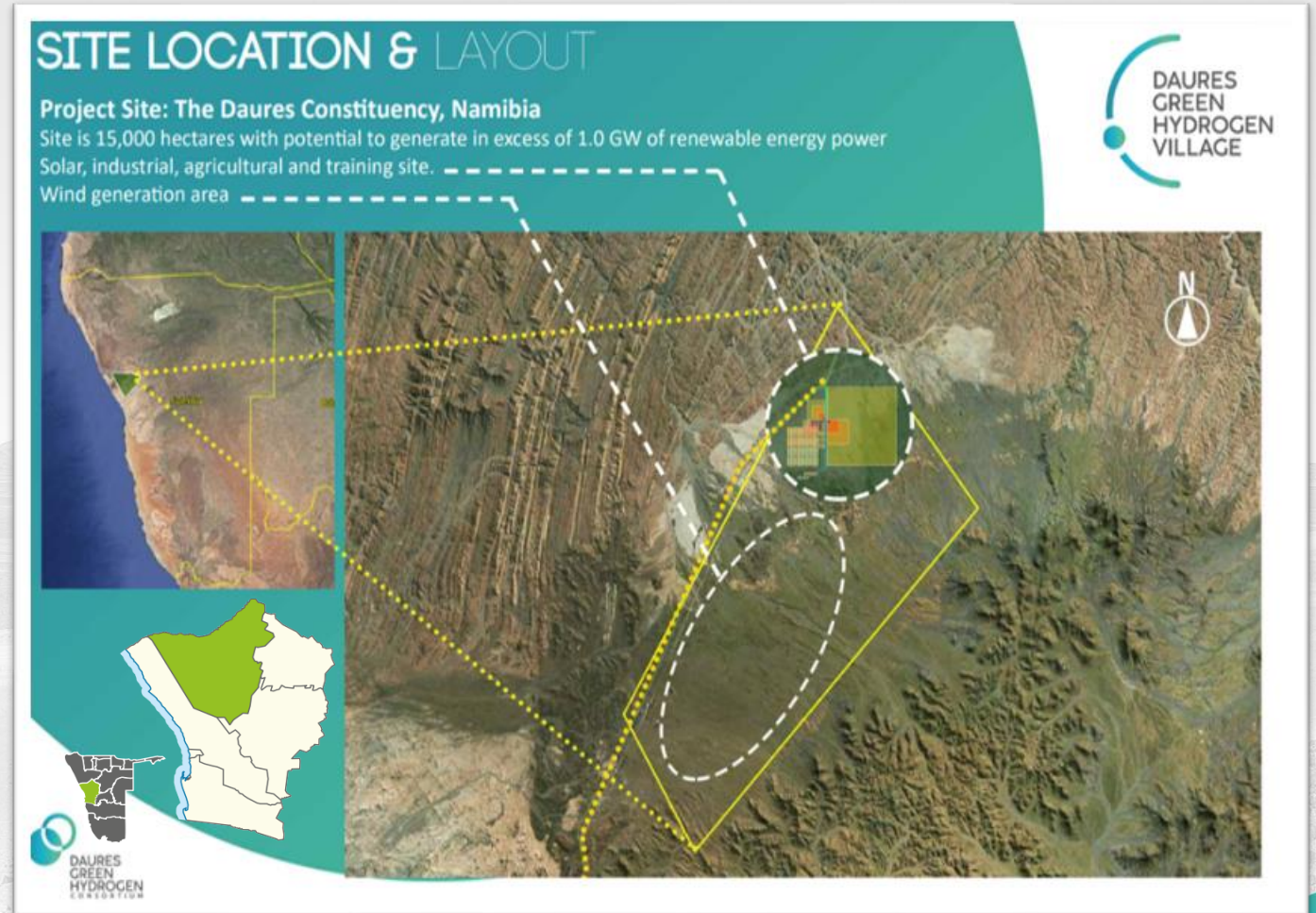
DAURES GREEN HYDROGEN VILLAGE

Green Hydrogen Uses - Namibian Context
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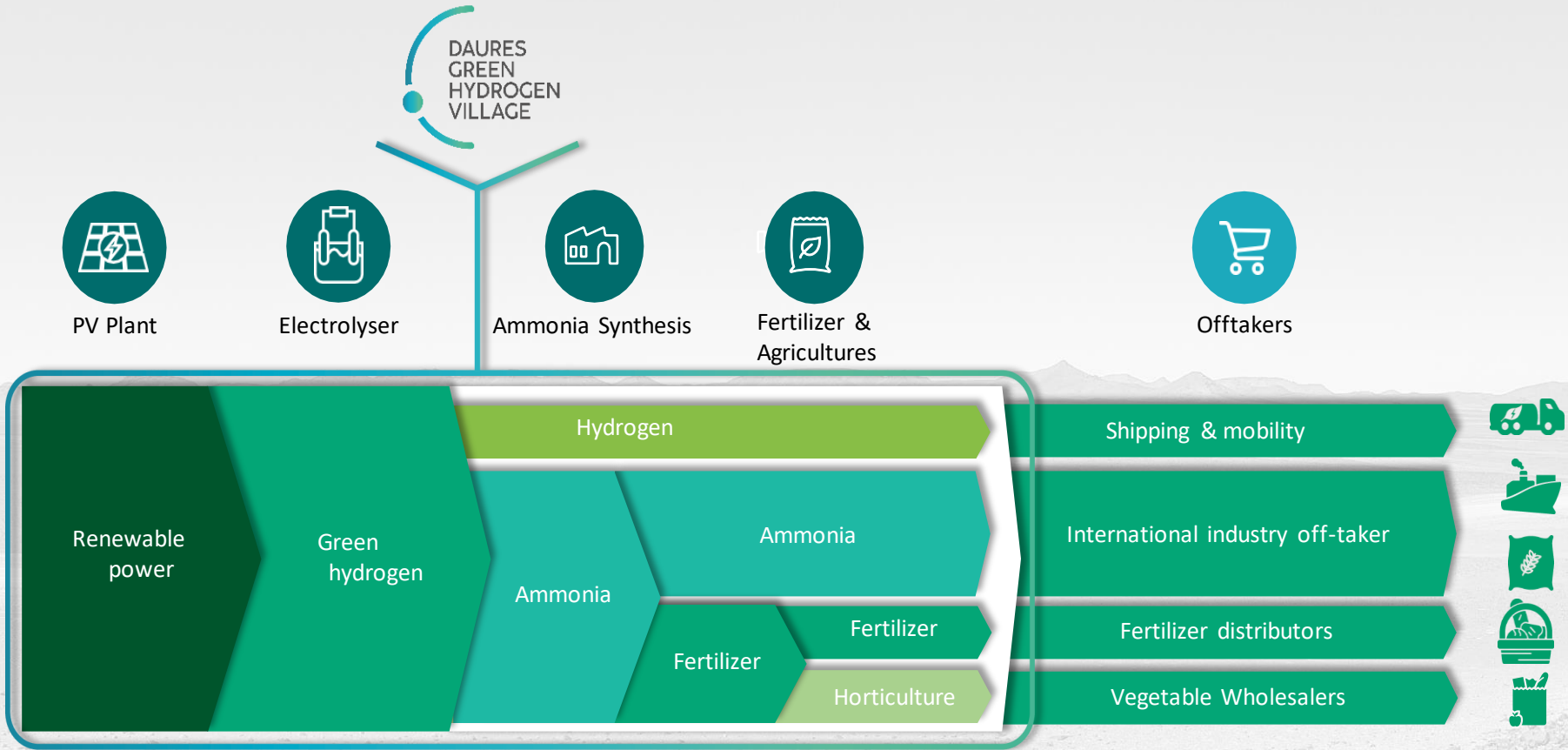


PROJECT LOCATION AND OVERVIEW

- The Daures Constituency is the largest constituency in the Erongo Region in Namibia with a population of approximately 11,350 people - 80% of residents are subsistence farmers.
- The Daures Green Hydrogen Village (DGHV) will be Africa's first net-zero green hydrogen village located close to the Brandberg mountain
- 15 000 ha project site with a renewable energy potential in excess of 1 GW
- Project lead developer is Enersense Energy Namibia, a fully Namibian owned firm
- 10% shareholding of the Daure Daman Traditional Authority and Tsiseb Conservancy



DAURES GREEN HYDROGEN VILLAGE: PROJECT VISION



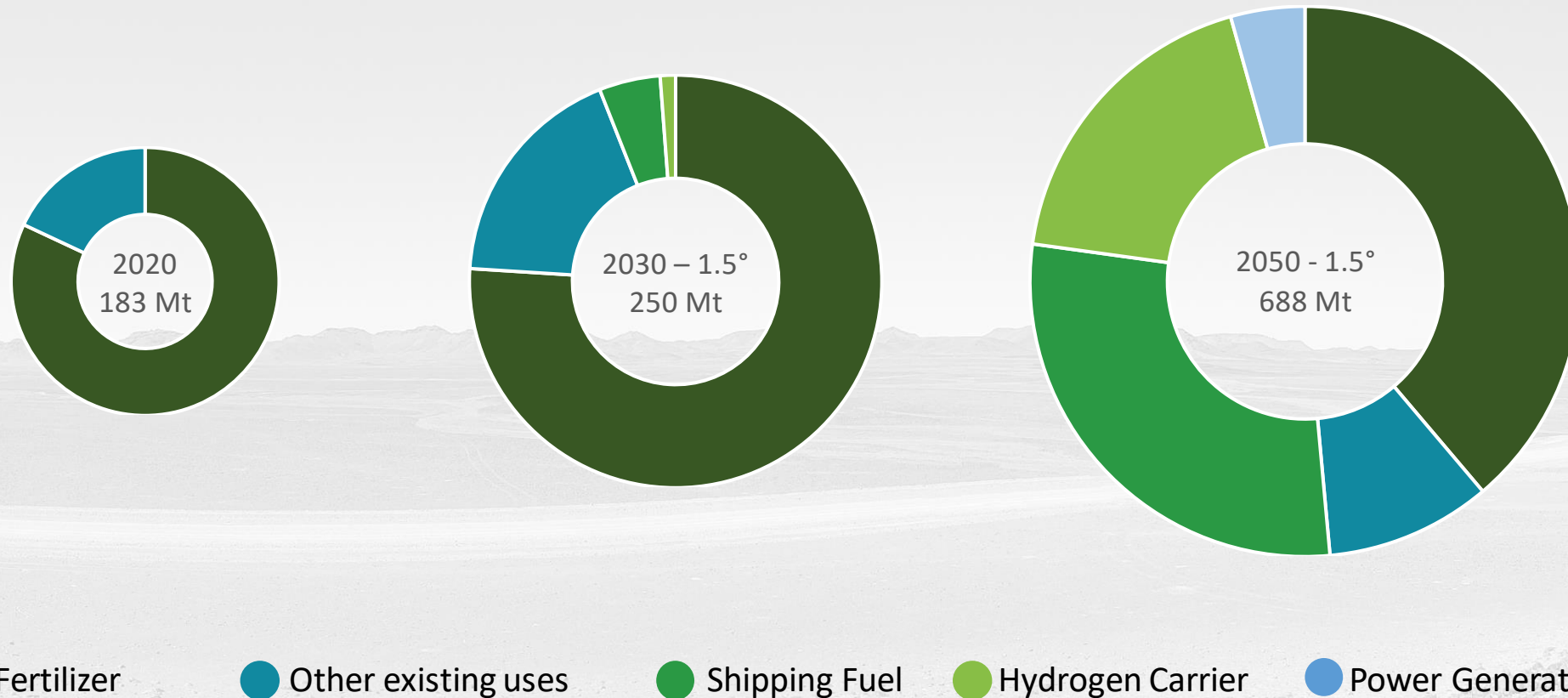
PROJECT PHASING



AMMONIA IN AGRICULTURE



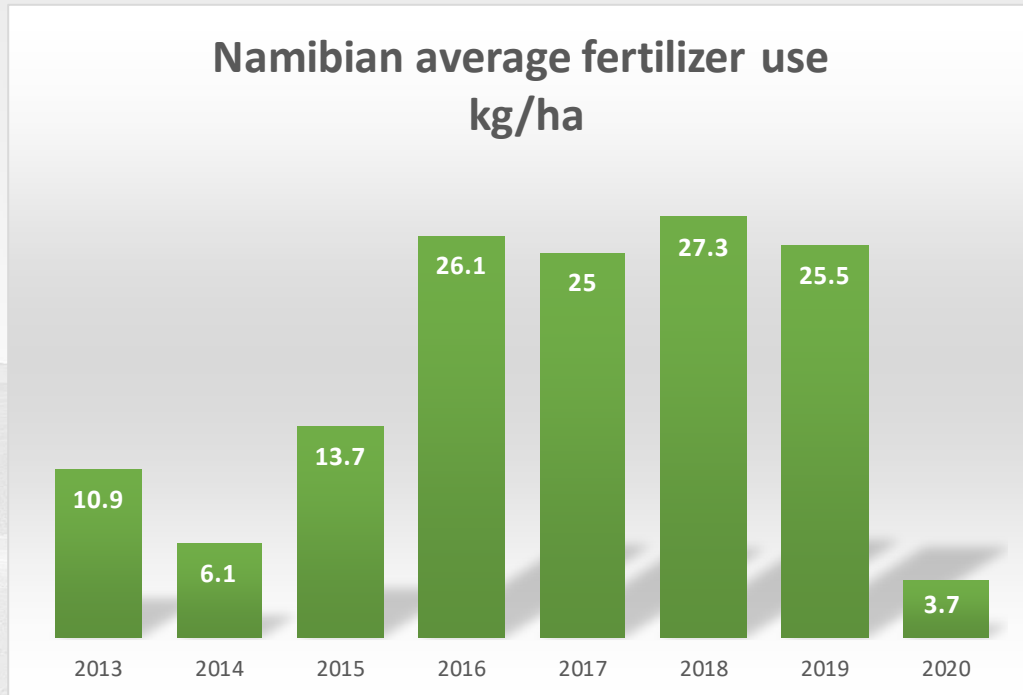
FORECAST OF GLOBAL AMMONIA DEMANDS BY USE



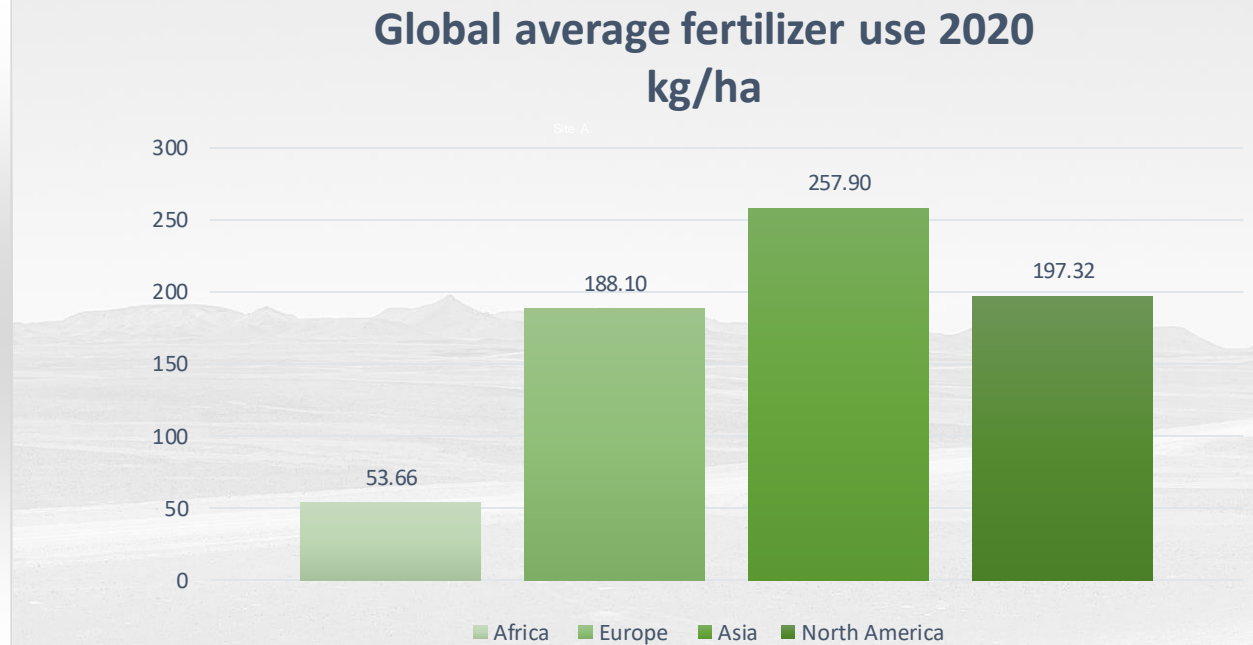
Adapted from: IRENA and AEA (2022), Innovation Outlook: Renewable Ammonia, International Renewable Energy Agency, Abu Dhabi, Ammonia Energy Association, Brooklyn.

AMMONIA LOCAL VALUE ADDITION- FERTILIZERS

Fertilizers in Namibia

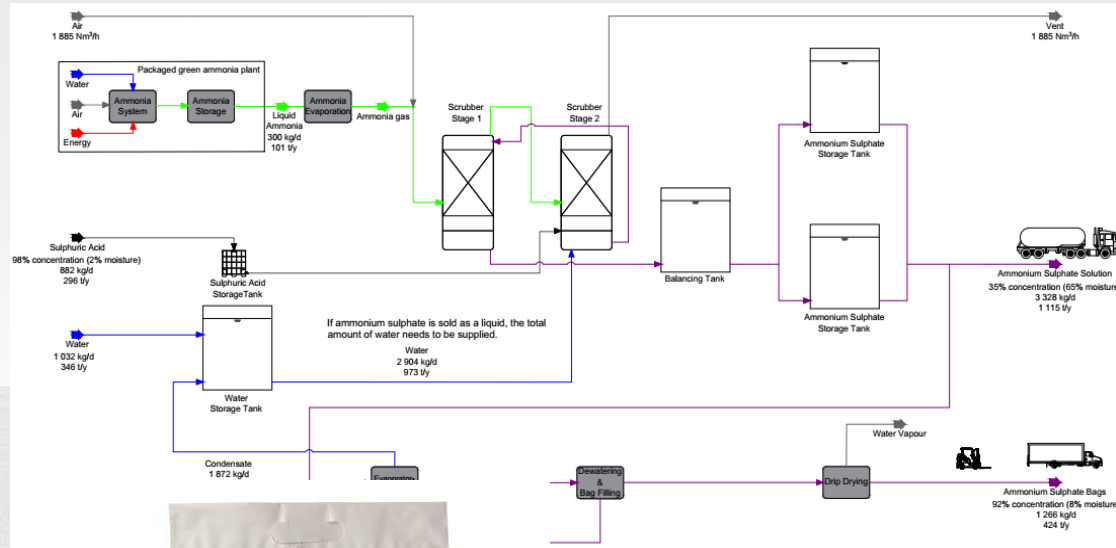


Fertilizers Global



PILOT THE PRODUCTION OF AMMONIUM SULFATE IN NAMIBIA

Ammonium Sulfate



Green fertilizer production in Namibia

- Production of green nitrogen fertilizers starting with ammonia sulphate at the Daures Green Hydrogen Village in Namibia
- The Daures Green Hydrogen Village will produce green ammonia from renewable energy which will be used for sustainable fertilizer making
- **Circular economy:** Sulphuric acid is sourced from Dundee Tin Smelter in Tsumeb
- The project aims at setting up a plant-to-farmer fertilizer supply chain which directly reaches the farmers in suitable packaged quantities

AGRICULTURAL PRODUCTION & PROCESSING

Greenhouse and nursery



Agricultural processing



TRANSFORMING THE DAURES CONSTITUENCY



Community and School Gardens

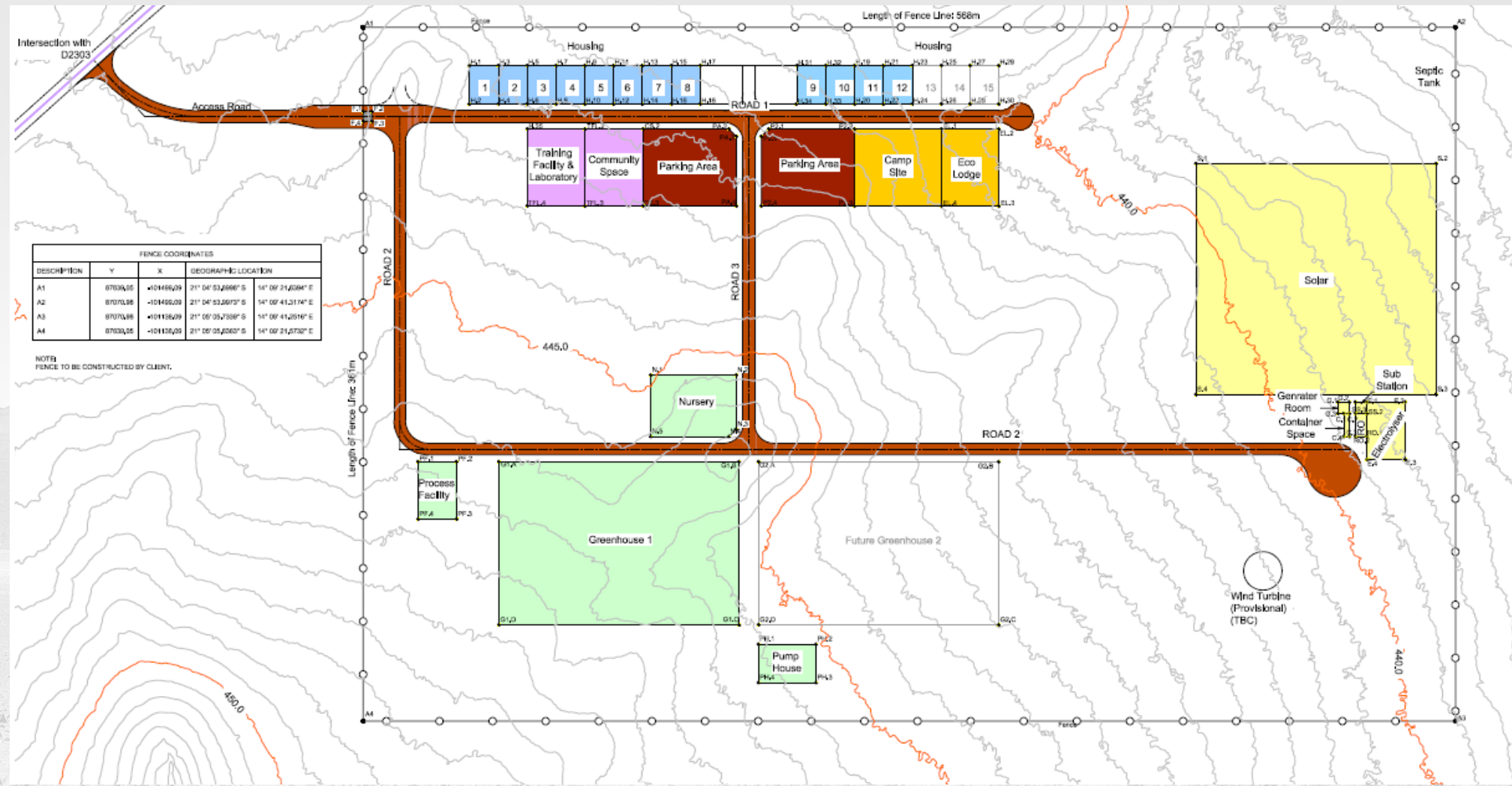
- MOU with WFP to develop a transformative food systems model for constituency – commenced with school gardens
- We will engage with communities within the conservancy to possibly participate in a community garden program
- Boreholes powered by solar and fuel cells to be installed and connected to 2000 m² drip irrigation
- Communities will be trained on crop production
- DGHV to enter into agreements with the successful communities to collect, purchase and on-sell the crops on an agreed frequency
- Preference on the program to vulnerable groups
- Program intends to bring markets, sustainable jobs and food security to over 1000 people in the conservancy



PROJECT PROGRESS

Picture taken on Project Site : Phase 1 Project Area

PILOT PROJECT



Phase 1 construction 40% completed



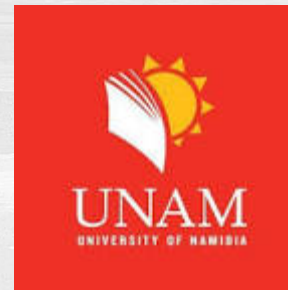
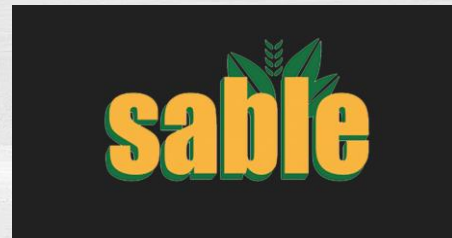
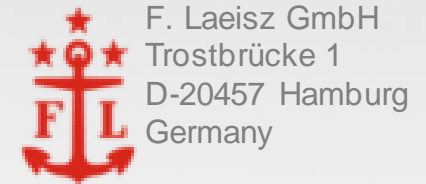
Construction progress can be followed on our social media

PARTNERS AND COLLABORATIONS

Phase 3 - Rendering



PARTNERS



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THANKS