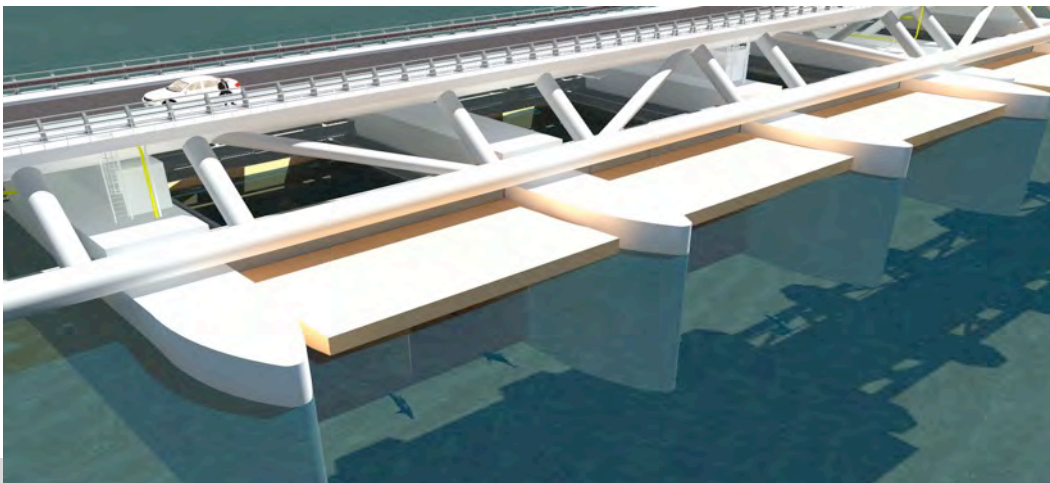
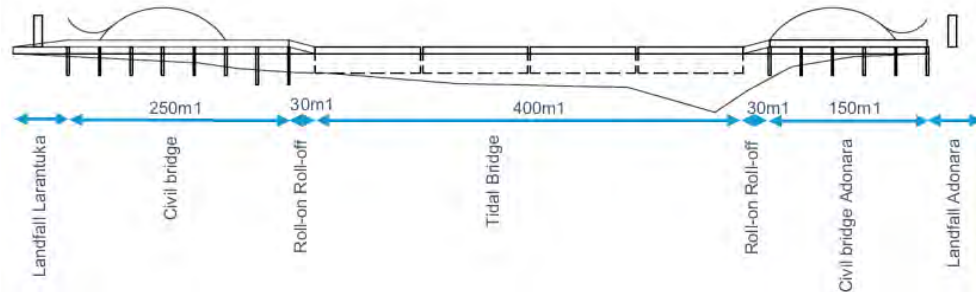


Tidal Power Plants

Project profile



Name Project

Tidal Power Plant Larantuka

Location

Larantuka & Adonara, Nusa Tenggara Timur, Indonesia.

Installed Capacity

40 MW

Connection Grid

In 2021 on East Flores Larantuka, Adonara

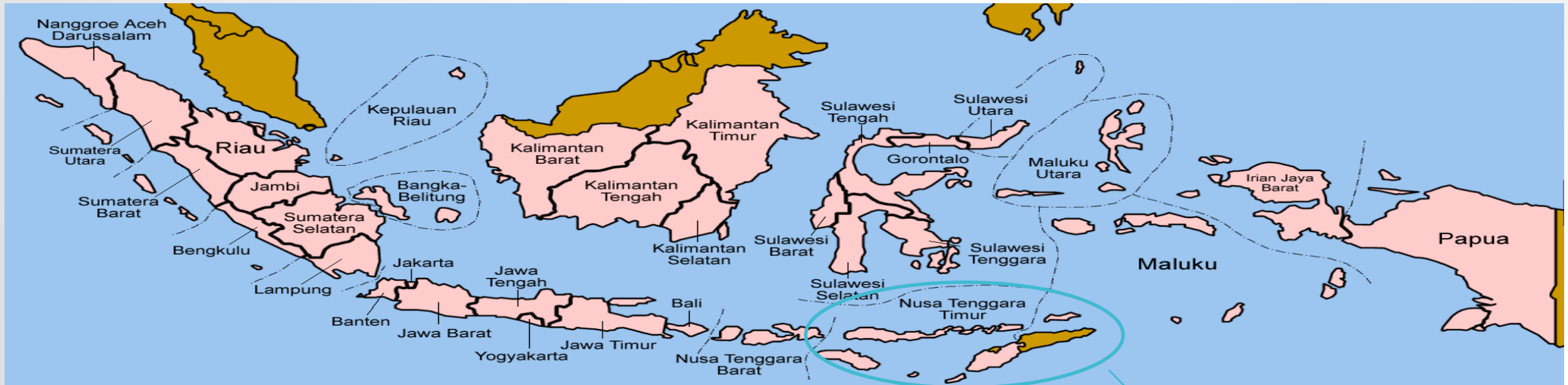
Power Generation

100 GWh (Annually)

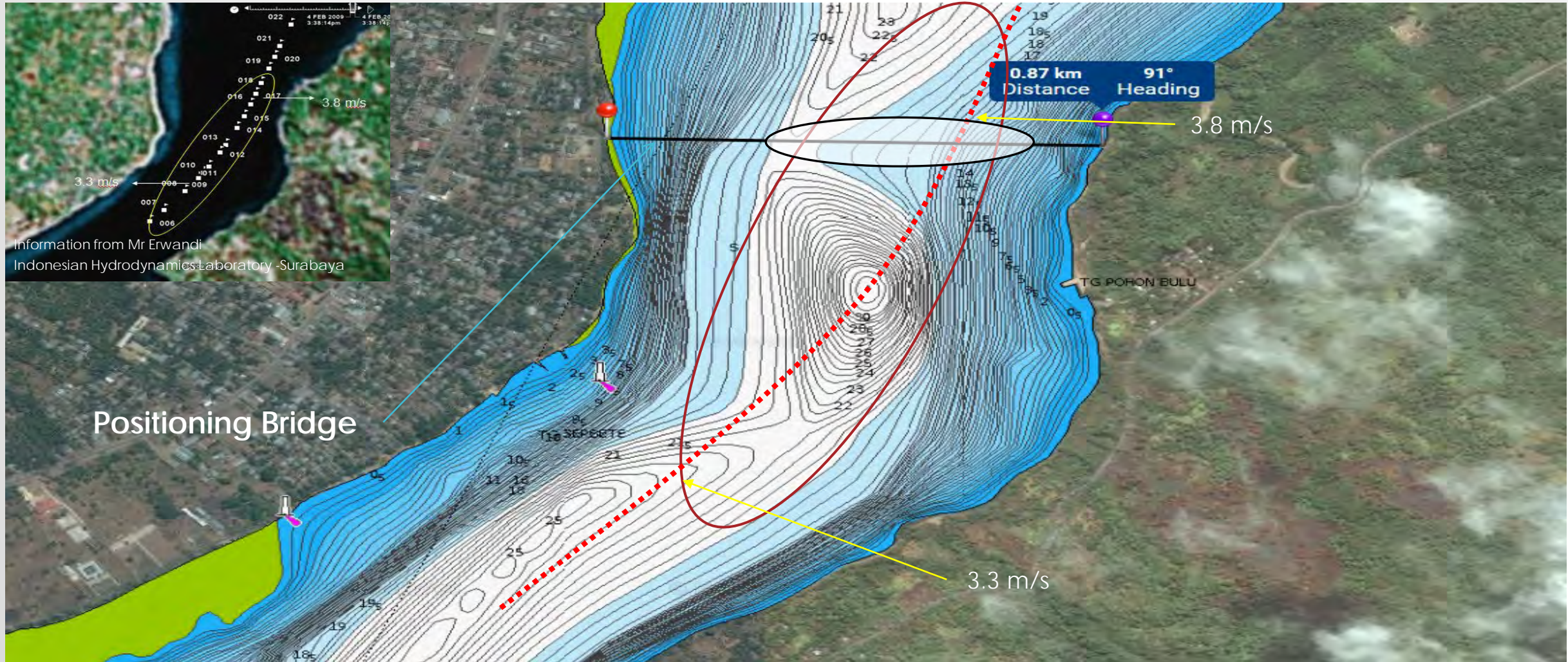
Project Benefits

- Secured, attractive Export Finance supported by Dutch Government
- Increase of local employment by growth of Fishery, Agriculture, Tourism, Industries
- Large iconic development of renewable energy based on tides integrated in infrastructure

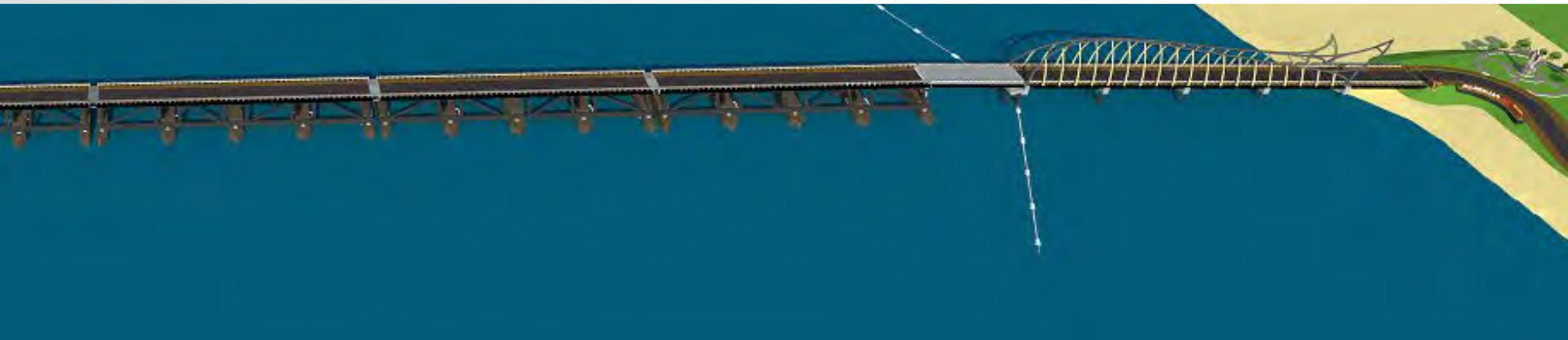
PROVINSI NUSA TENGGARA TIMUR, LARANTUKA



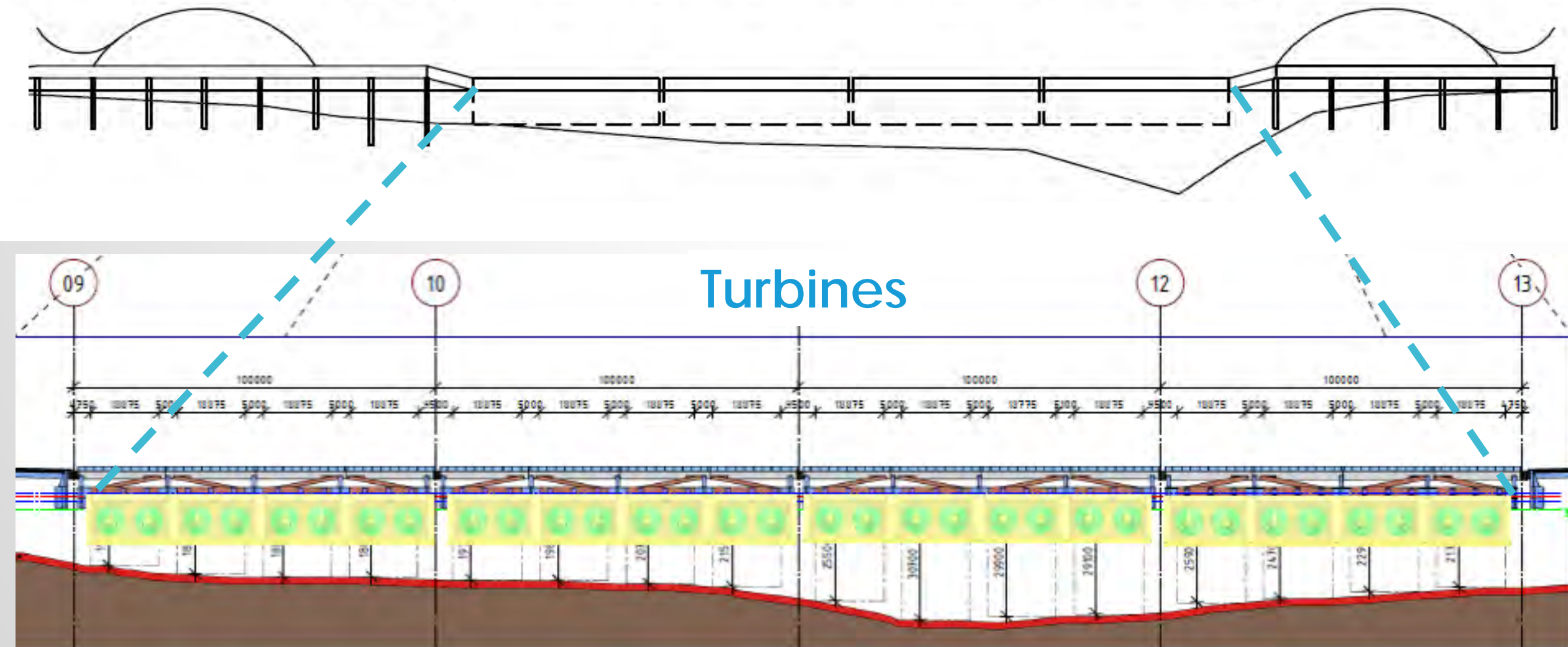
Tidal currents Larantuka strait & Tidal Bridge



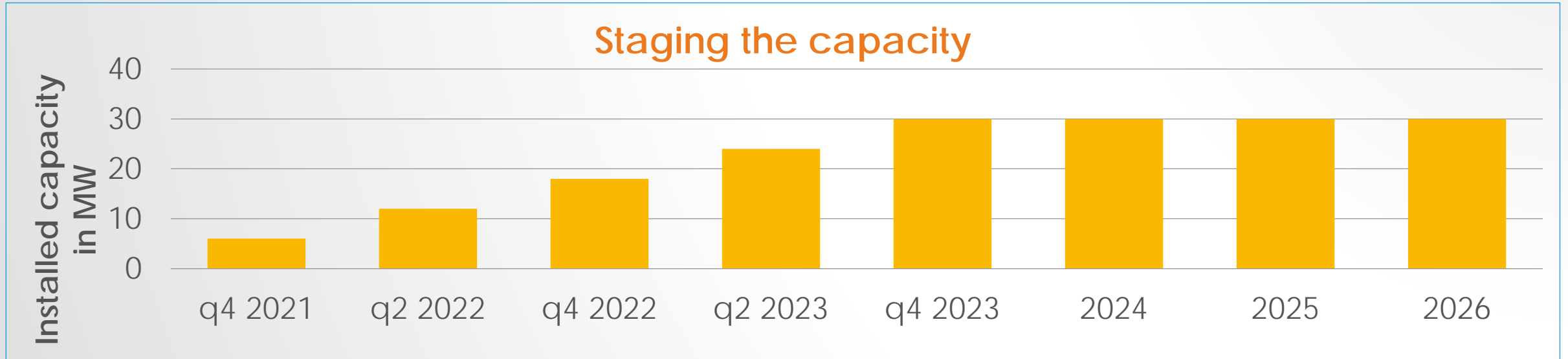
Tidal power plant and Bridge



Project overview: Tidal power plant with extension



Gradually build up production capacity

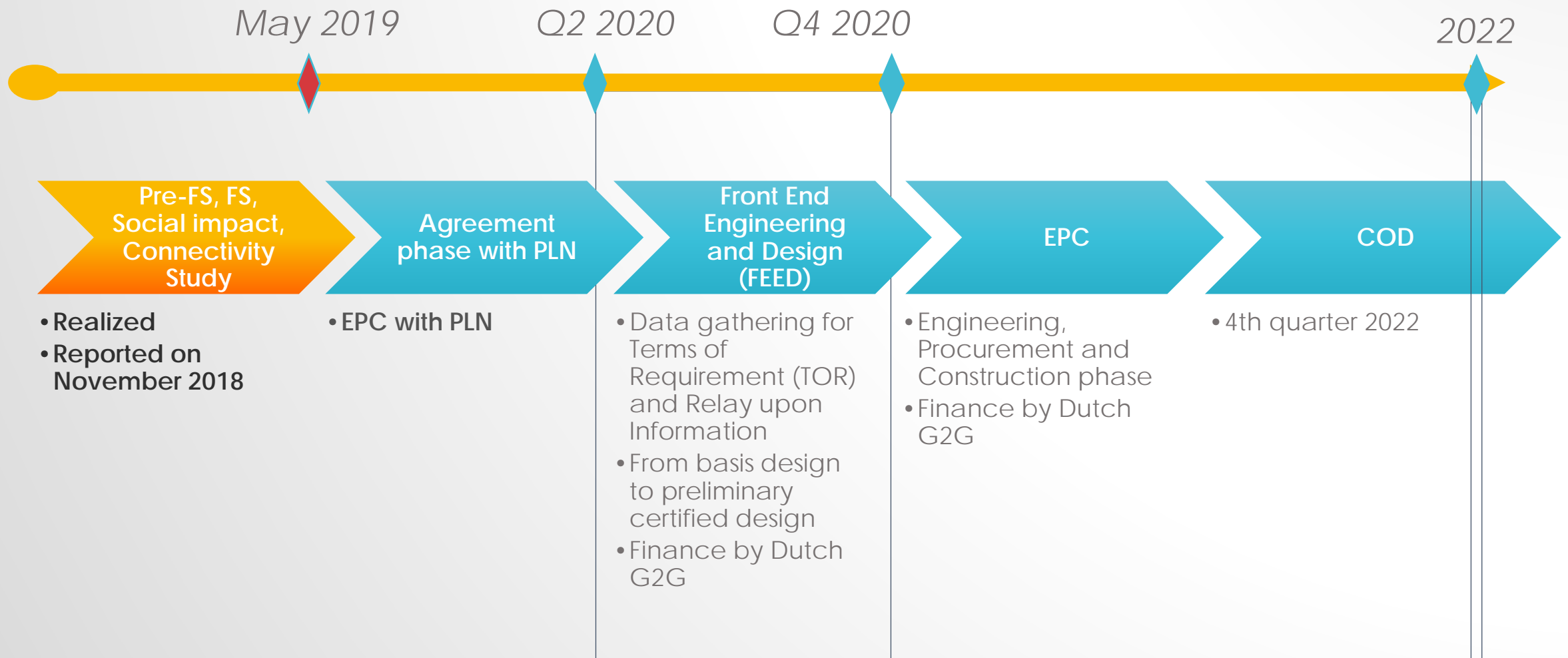


The build up of the capacity

- Anticipates on the development of the demand as noted in Connectivity Study
- Creates timing for the investors of harbour, tourism, fishery to prepare
- Gaining experience with gas turbines load followers

COD 2021

Implementation phase...



TIDAL POWER DAM

MASIRAH ISLAND, OMAN

Interreg
North Sea Region
OESA

European Regional Development Fund

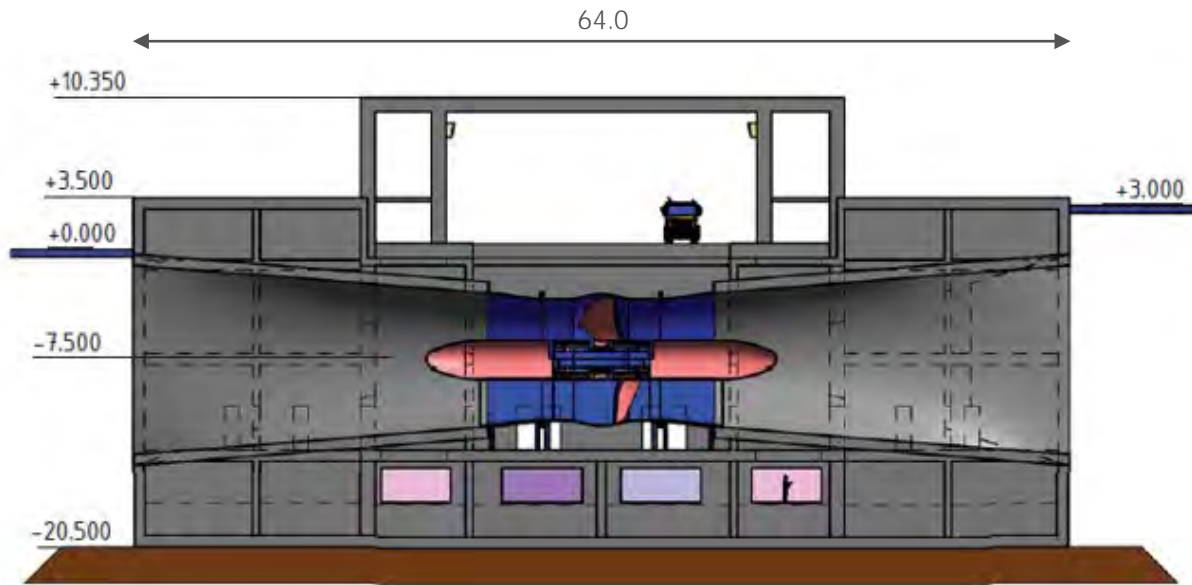


EUROPEAN UNION

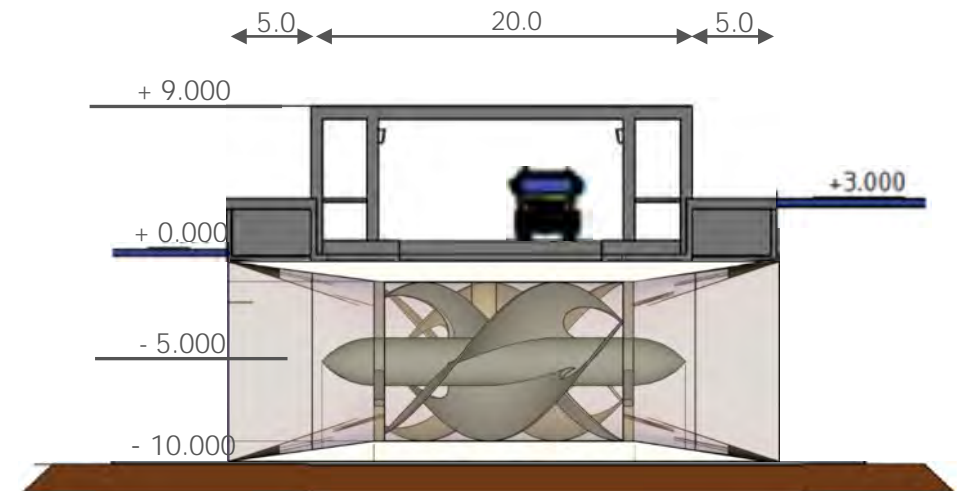
DTP PRINCIPLE

DTP is a dam concept composed of several standard caissons, for turbines and as substations, supplemented by a normal dam.

The dam creates a blockage of the currents to realise impoundment (Δh). This effect together with the FTP turbines, generates extra energy yields.



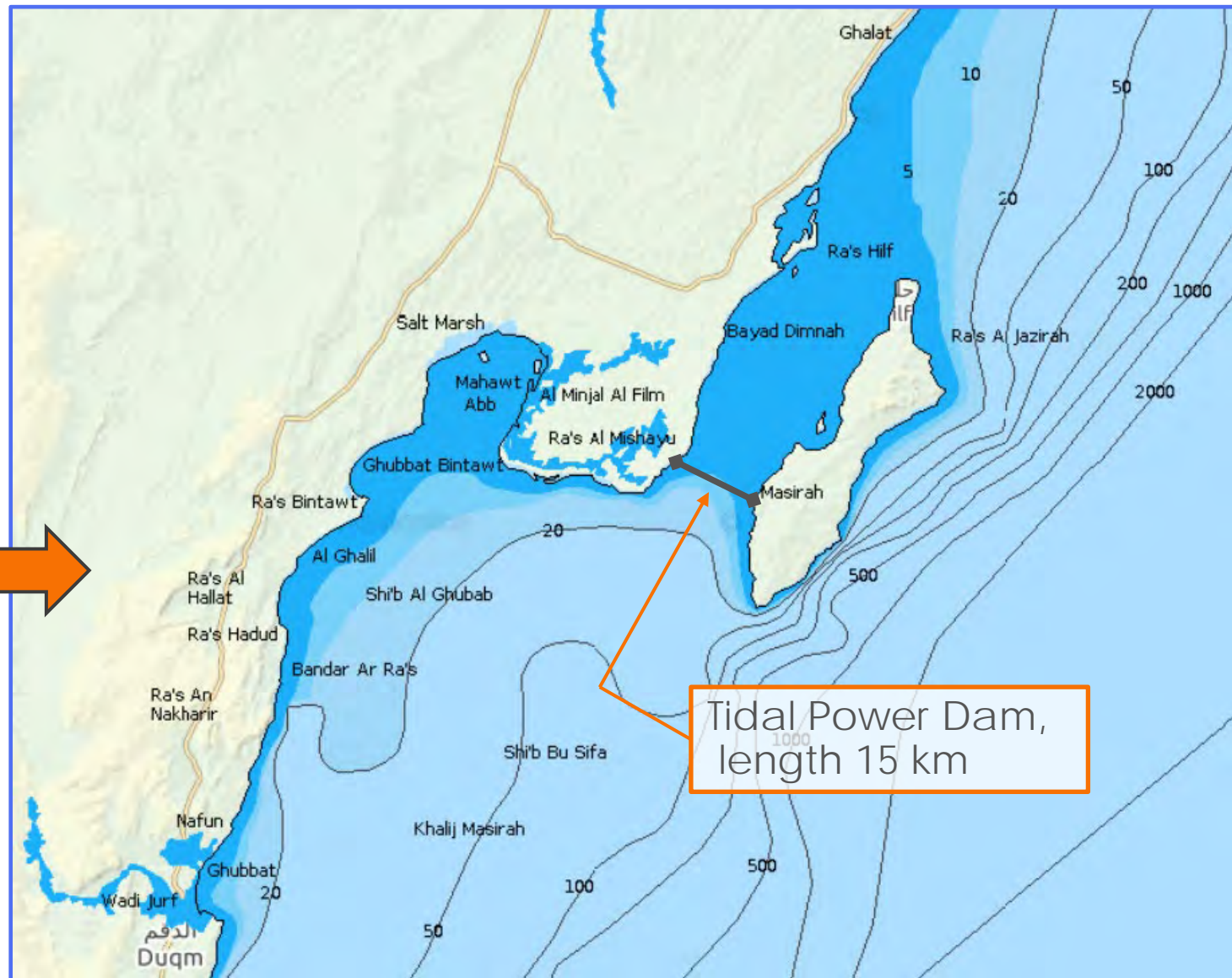
Basis concept DTP China study project



Basis concept DTP Oman

TIDAL ENERGY PROJECT OMAN

Ideal location at Masirah Island



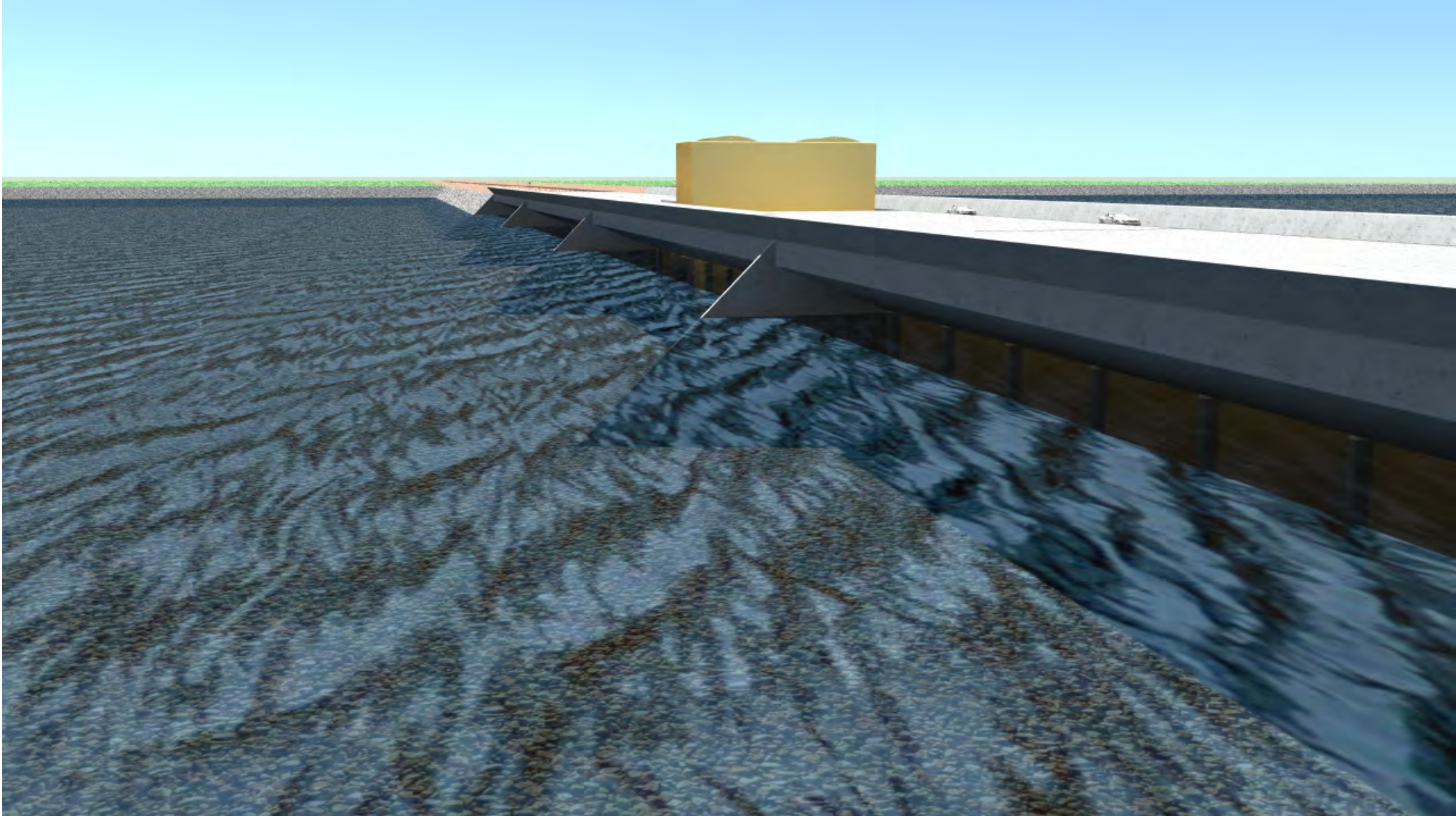
IMPRESSION TIDAL POWER DAM

Ideal location at Masirah Island



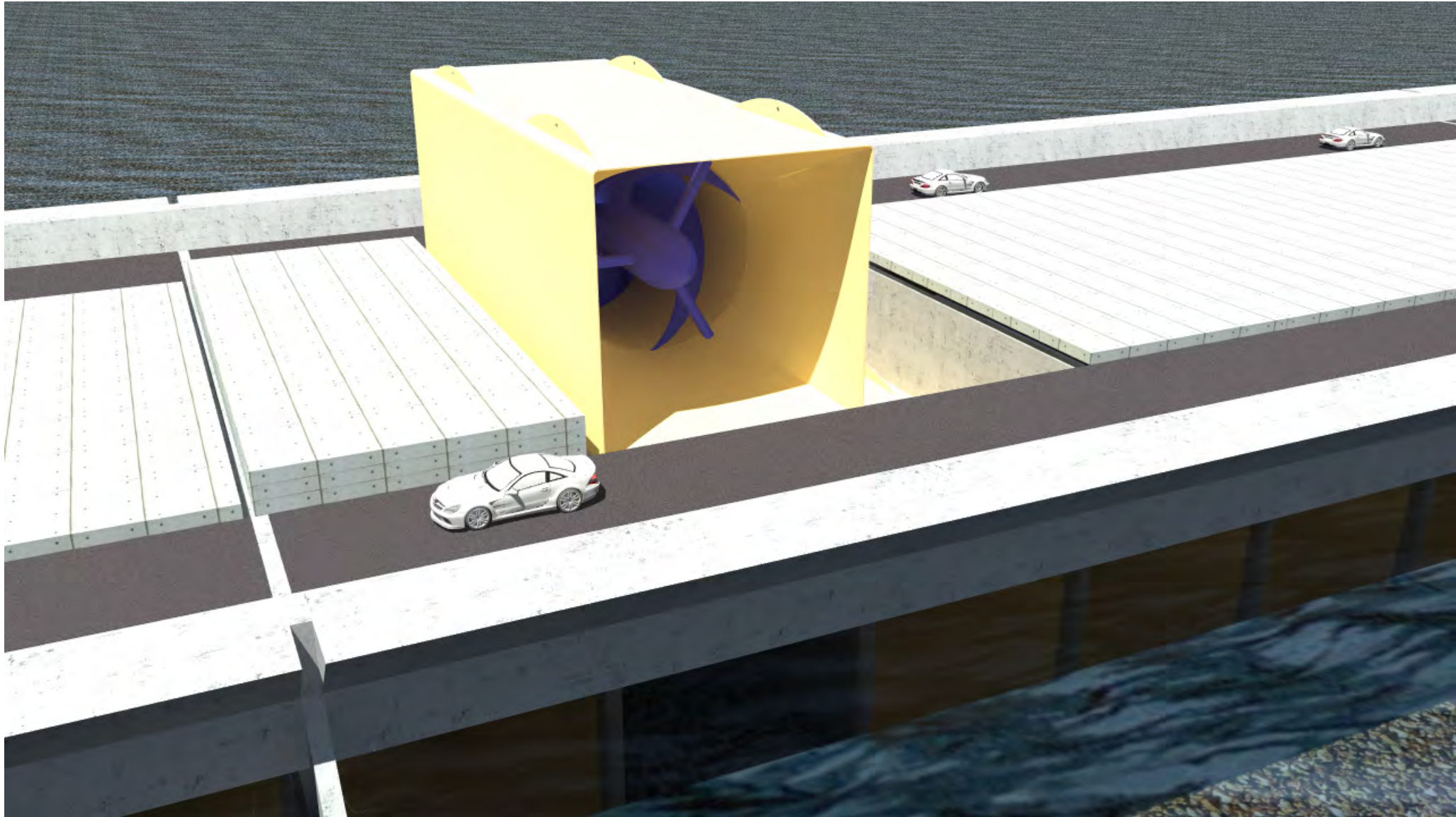
IMPRESSION TIDAL POWER DAM

Ideal location at Masirah Island



IMPRESSION TIDAL POWER DAM

Ideal location at Masirah Island



VALUES TIDAL POWER DAM

Achievements of the project
have direct impact

Worldwide iconic prestige project

This project has a direct positive impact worldwide, with a major development on technology, innovation, entrepreneurship and prestige defining the progressive role of OMAN

Politics

"Right timing for cost neutral solution with International allure"

Renewable energy

"Higher production than demand creating export possibility"

Unlocking Masirah island

"Access to strategic position with development of tourism and creations of jobs"

NEXT STEPS

Next step is determining the feasibility

1. Activities

Data gathering

Tidal Current, Water heights & waves, Hydrography, Geological conditions, Weather, Infrastructure, energy demand

Numeric analysis

Waterworks to influence the flow profile, Length of solution, impact on surroundings

Development

Engaging operating and financial parties

2. Output

Design

Position dam, Basis of design waterworks and dam, Configuration of the turbines

Energy

Yield of the turbines, output and conversion base load

Financial

Estimation investment and opex, Cost of energy, Returns

Funding institutions

Contacts



CEO Eric van den Eijnden

E: eve@tidalbridge.com

M: +31 (0) 6 51 19 92 37

PT Tidal Bridge Indonesia

CEO Latif Gau

E: lga@tidalbridge.com

M: +31 (0) 6 84 79 44 24

+62 (0) 812 8976 1430

TIDAL BRIDGE

Strijpsestraat 4,
5616 GR Eindhoven
The Netherlands
www.tidalbridge.com

Interreg
North Sea Region
OESA

European Regional Development Fund



EUROPEAN UNION