Suriname Offshore to IRO

21 May 2021

Presentation content

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I. Introduction to Staatsolie

I. Staatsolie's Role

Founded on 13 December 1980. Shareholder: Republic of Suriname

Dual Role

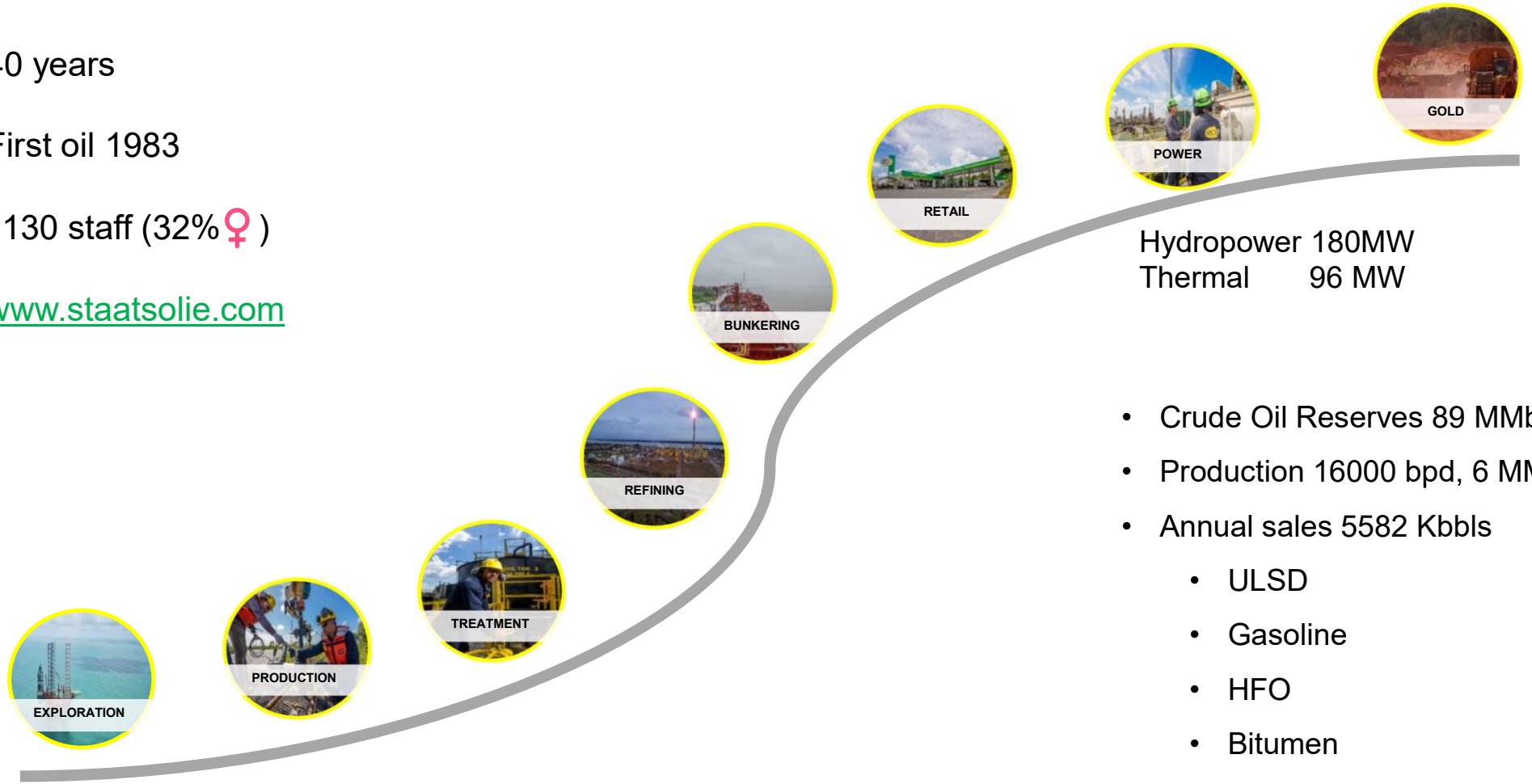
Commercial: Vertically integrated energy company

Institutional: **Staatsolie Hydrocarbon Institute N.V. (SHI)**

- 100% subsidiary of Staatsolie
- State agent acting on behalf of the Government on hydrocarbon potential
- Contracting & supervision of Production Sharing Contracts (PSCs)
- At FID, will place Supervisory Board comprising CEO Staatsolie, Min. Fin. Min NR, 2 other selected members

I. Staatsolie - Integrated Energy Company

- 40 years
- First oil 1983
- 1130 staff (32% ♀)
- www.staatsolie.com



Hydropower 180MW
Thermal 96 MW

- Crude Oil Reserves 89 MMbbls
- Production 16000 bpd, 6 MMbbls pa
- Annual sales 5582 Kbbls
  - ULSD
  - Gasoline
  - HFO
  - Bitumen

I. Upstream

- **Exploration**
  Exploration strategy for the onshore, nearshore and shallow offshore acreage. Continue to seek JV partners to accelerate exploration activities and share expertise and risk.
- **Crude Production**
  Three oilfields in Saramacca: Tambaredjo, Calcutta and Tambaredjo-Northwest.

I. Downstream - Refinery

- Since 1997, expanded refinery inaugurated on 13 December 2014
- Products: High quality diesel and gasoline, fuel oil, bitumen
- Bunkering services local and international – high quality marine fuels
- Retail: GOw2 (100% subsidiary)

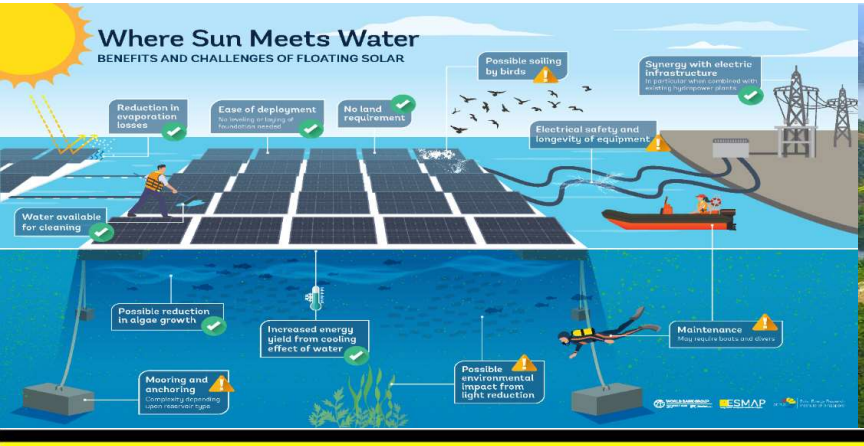
I. Power - Staatsolie Power Company Suriname

- Thermal since 2006. Installed thermal capacity of 96 MW. PPA with Government/Supply to the grid and refinery.
- Hydropower (Afobaka) since 1 January 2020. Installed capacity: 180MW
- Staatsolie's share in national energy supply: 75%
- Develop renewable energy projects

I. Sustainable Energy Activities

- Establish Carbon Footprint base line of Staatsolie, monitor and initiate GHG emissions reductions; optimizing energy efficiency and prevent methane leakage/venting.

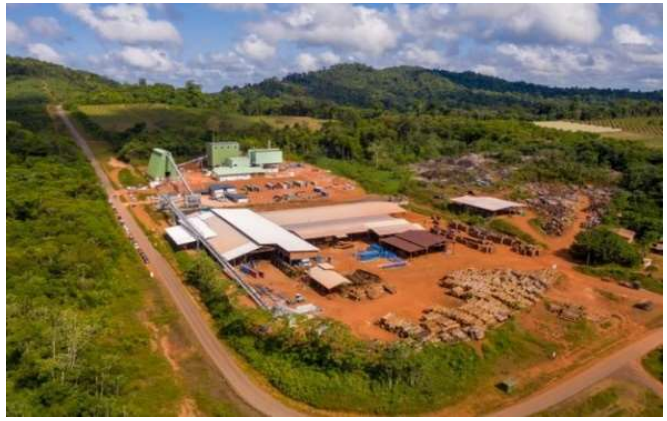
- Increase electrical power output Afobakka (Priority I)
  - Modernisation of Afobakka powerplant, e.g. improve turbine efficiency
  - Adapt lake management regime (rule curve), increase lake level with 1-4 ft??
  - Cloud seeding to increase rainfall in lake area
  - Floating Solar



I. Sustainable Energy Activities

- Renewable energy sources (Priority II)
  - Power from Wind, Solar on land,
  - Power from Biomass & Municipal Waste
  - Run of the river hydro power

5.4 MW Run of the river French Guyana



5.1 MW Biomass plant French Guyana (2021)

I. Gold Partnerships

- Nov 2014 - 25% participation in Merian Gold project (Newmont Suriname)
- Apr 2020 - 30% participation in Pikin Saramacca project (IAMGOLD Rosebel Gold Mines)

II. Offshore Developments

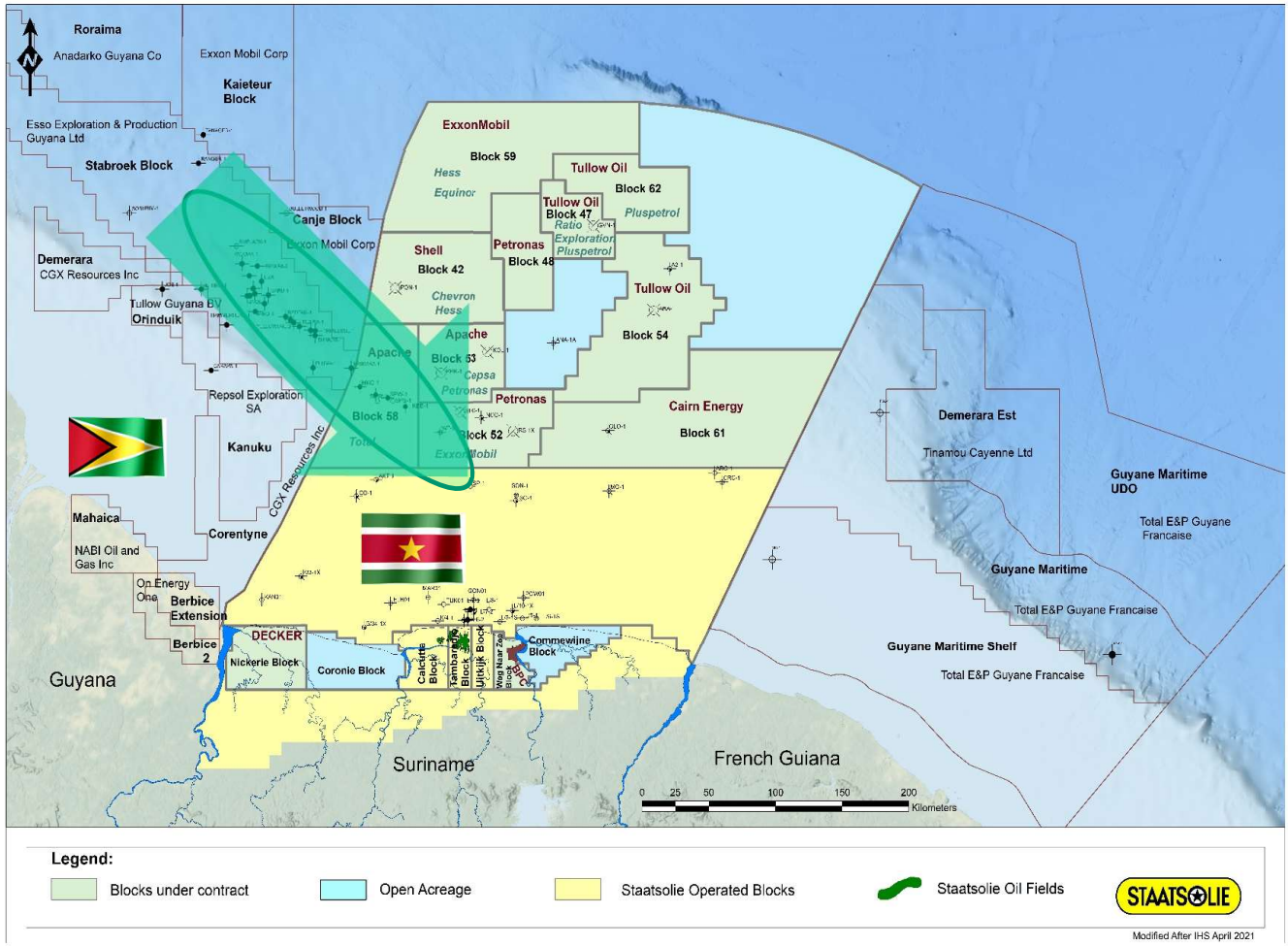
II. Offshore blocks and finds

Block 58
2020: Maka Central-1 (January). Sapakara West-1 (April), Kwaskwasi-1 (July)
2021: Keskesi East-1 (January)

Block 52
2020: Sloanea-1 (December)

Block 47
2021: Spudded Goliathberg-Voltzberg North-1 (February)

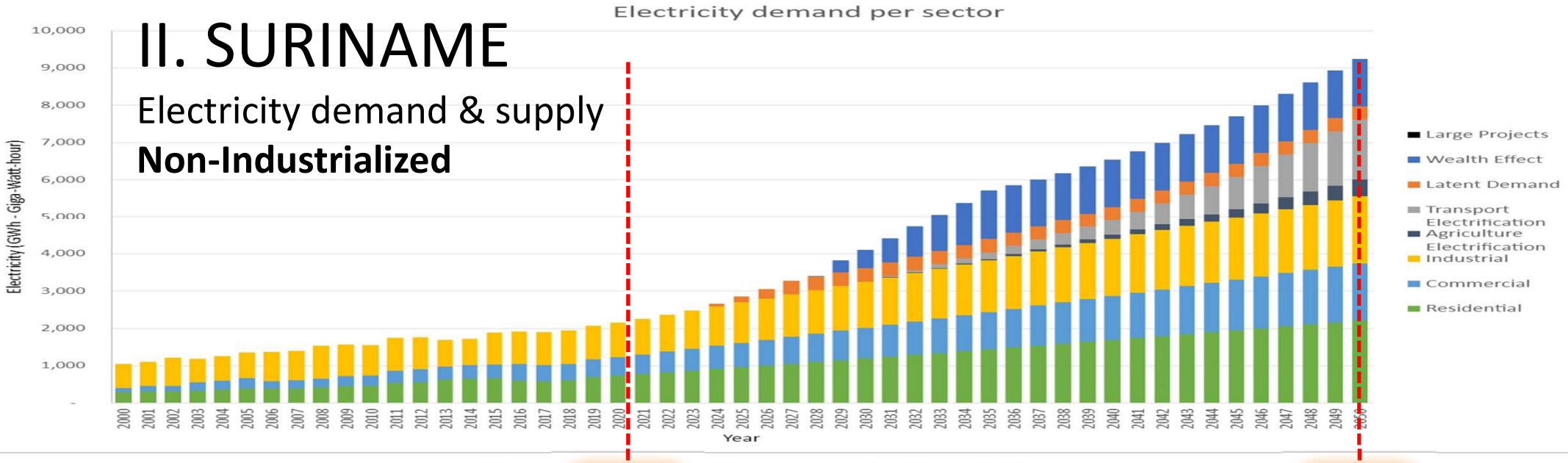
Guina Basin USGS 2001 estimate: ~15 bln barrels.
Reassement started in 2020.

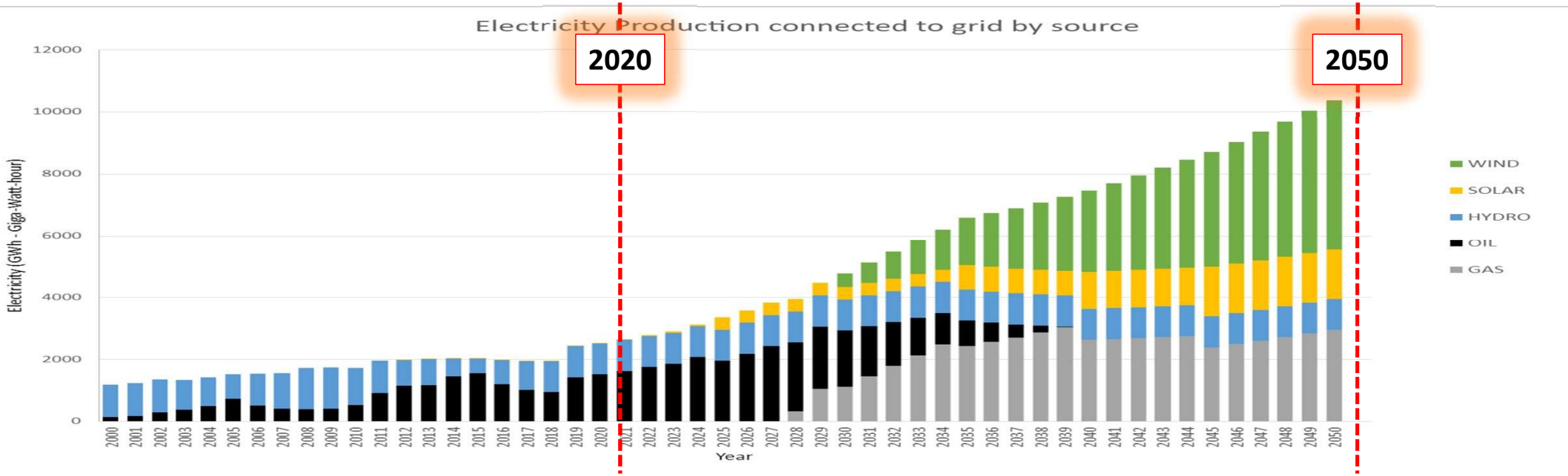


II. SURINAME

Electricity demand & supply

Non-Industrialized





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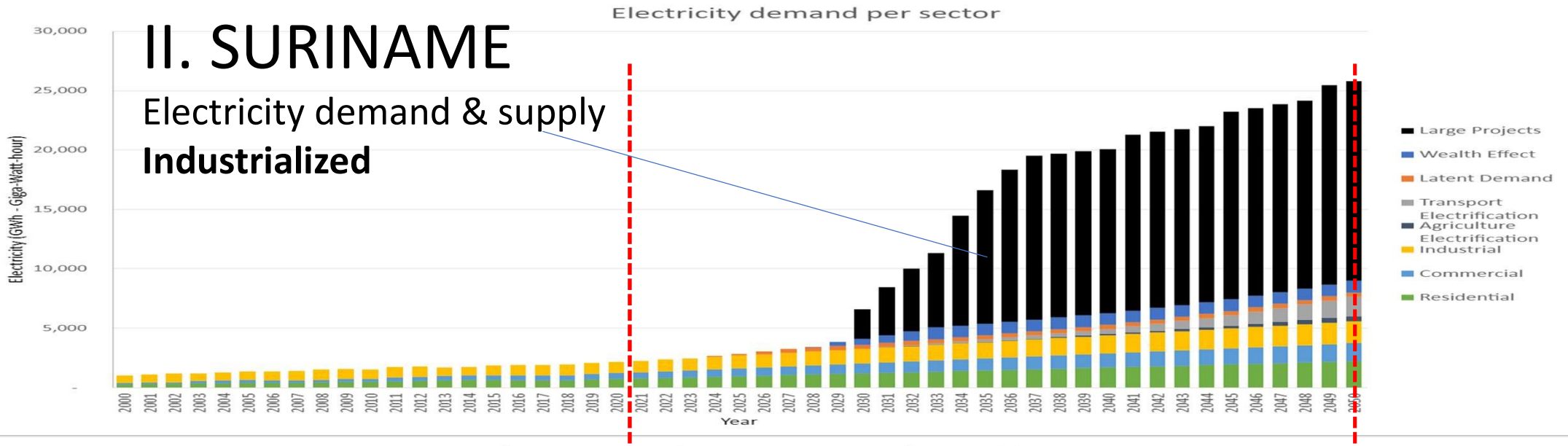
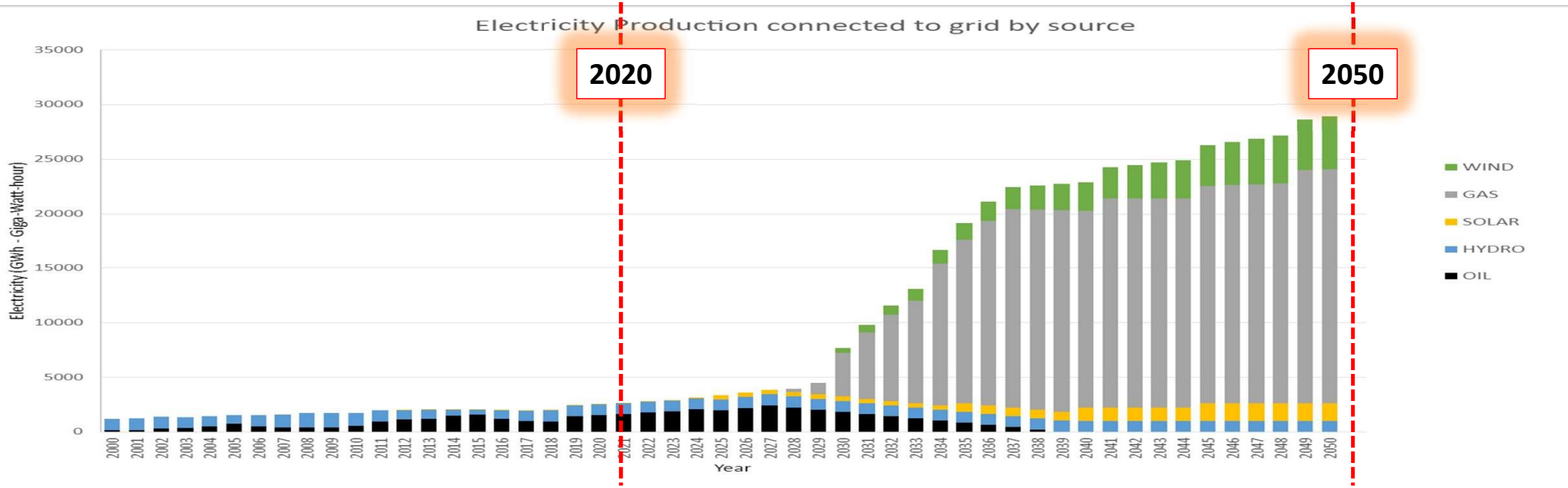




Scenarios for Natural Gas Monetization

1. Only Local Power Generation — 50 MMSCFD Gas

- 300 MW electricity, switching from FO to Natural Gas

2. Large Industrial Development — 500 MMSCFD*

Options for 500 MMSCFD each::	Typical plant sizes:
• Aluminium Smelter W-Suriname	800 kT/y (1.5 MM T/y Alumina)
• LNG on shore	3.5 MM T/y
• Methanol	3 x 5 kT/d
• Ammonia + Urea	3 x 5.5 kT/d
• Gas to Liquids (naphtha, diesel & lubes)	45k BPSD (1/3 of Pearl Shell plant in Qatar)
• Electrical Power ArcoNorte	3700 MW

3. Innovative Developments available in about 10y

- Blue or Green Hydrogen production, to produce green Methanol, Ammonia, Urea

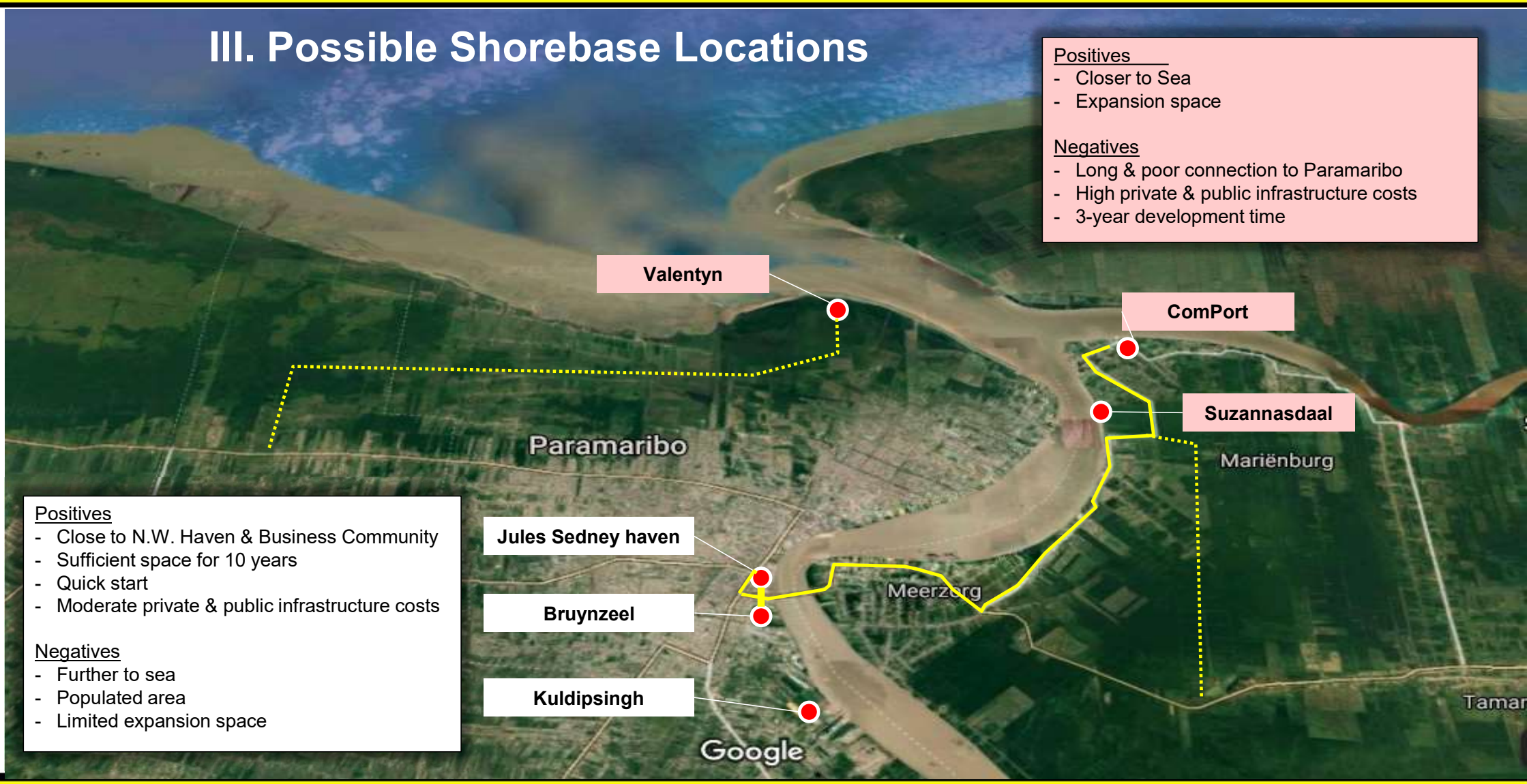
*** 5.5 TCF NG reserves required for 30y**
(T&T 2020: 10.5 TCF NG reserves)

III. Shorebase

III. Key decision driving facts inventory

#	Fact	Effect
1	To make a quick start need to be in vicinity of labor, services, goods and logistics	Paramaribo and surroundings preferable (left side of Suriname river)
2	Experts indicate current draft a significant enabler for local content	Suriname river is a feasible option
3	Total has no visibility beyond 1-2 FPSO	Don’t go big yet, plenty of examples of white elephants in the world. Existing ports with add on. Wait with greenfield projects

III. Possible Shorebase Locations



Positives
- Closer to Sea
- Expansion space

Negatives
- Long & poor connection to Paramaribo
- High private & public infrastructure costs
- 3-year development time

Positives
- Close to N.W. Haven & Business Community
- Sufficient space for 10 years
- Quick start
- Moderate private & public infrastructure costs

Negatives
- Further to sea
- Populated area
- Limited expansion space

III. Concept design of one option

Royal HaskoningDHV
Enhancing Society Together

IV. Local content

Legal Framework Local Content

Petroleum Law

1. **employment of foreign personnel is strictly limited** to functions for which there are no experienced and qualified Surinamese nationals available,
2. utilize all possibilities so **that Surinamese nationals can gain expertise in and acquire responsible positions** in the activities within the framework of the petroleum agreement.
3. give **preference to goods and services** produced and/or available in Suriname.

Production Sharing Contracts

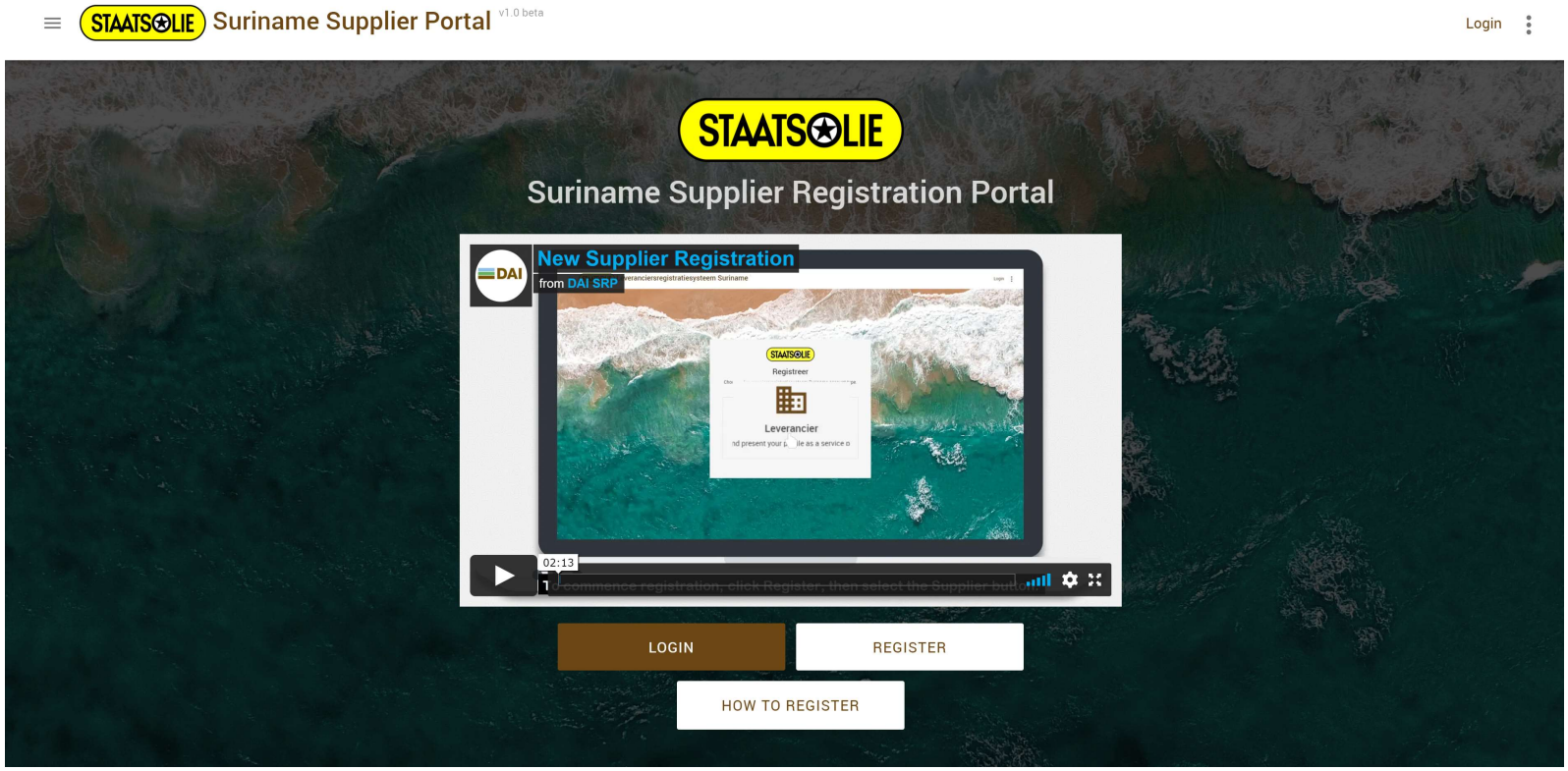
Obligations Contractor and its Sub-Contractors:

- Preference to **employ nationals**
- **Preference to local firms** in Suriname (including companies incorporated in Suriname) to carry out any **works, supply materials, or provide services**
- Ensure that locals gets access to all **tender invitations** and include weighting on local value added in the tender evaluation.
- Implement a program of **training** for nationals (including technical, administrative, executive and management Positions.

Impact of local content on your business

- **Local –Foreign partnerships and joint ventures**
  - Enhancement for the pre-qualification process of the IOC's
  - Expansion of business to this region
  - Local partners cultivates acceptance in local community
  - Local partners can provide guidance in local business practices (e.g. getting permits)
- **Capacity Building**
  - Opening a local branch
    - Enhancement for the pre-qualification process of the IOC's
    - Expansion of business to this region
  - Employment and training of local resources
    - Enhancement for the pre-qualification process of the IOC's
    - Local business knowledge within your company
    - Cultivates acceptance in local community

Supplier Registration Portal



- Show your interest and make your company profile noticeable
- Stay updated on events and off-shore activities/developments
- Access via: https://**www.staatsolie.com**/nl/suriname-srp/

Suriname Energy, Oil and Gas Summit 2021

https://www.staatsolie.com/en/seogs-2021/

Thank You

Q&A

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