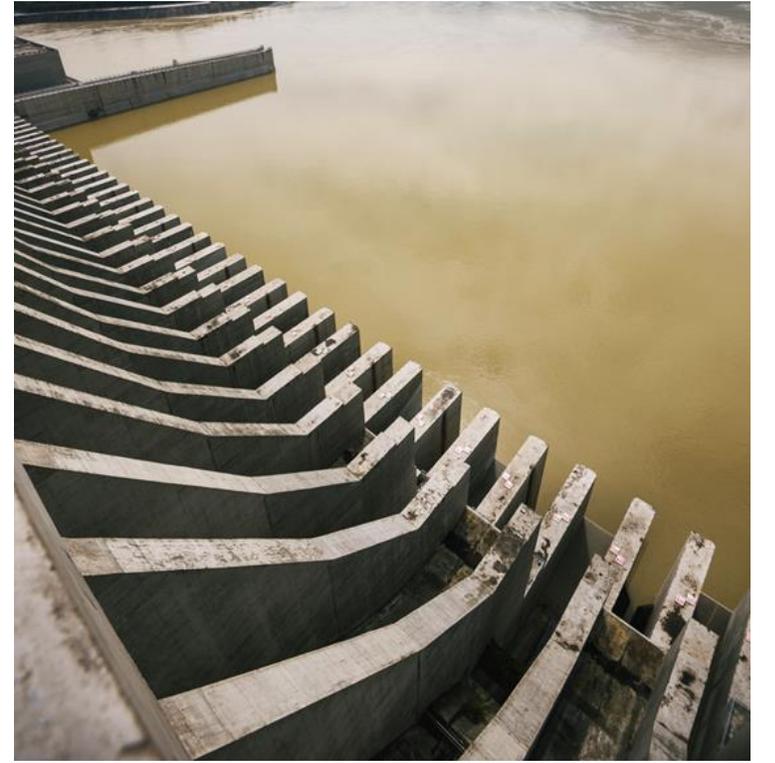


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IAIA WAB Event

Better hydropower for biodiversity and people: energy sector planning and screening tools for better project site selection

18 February 2020

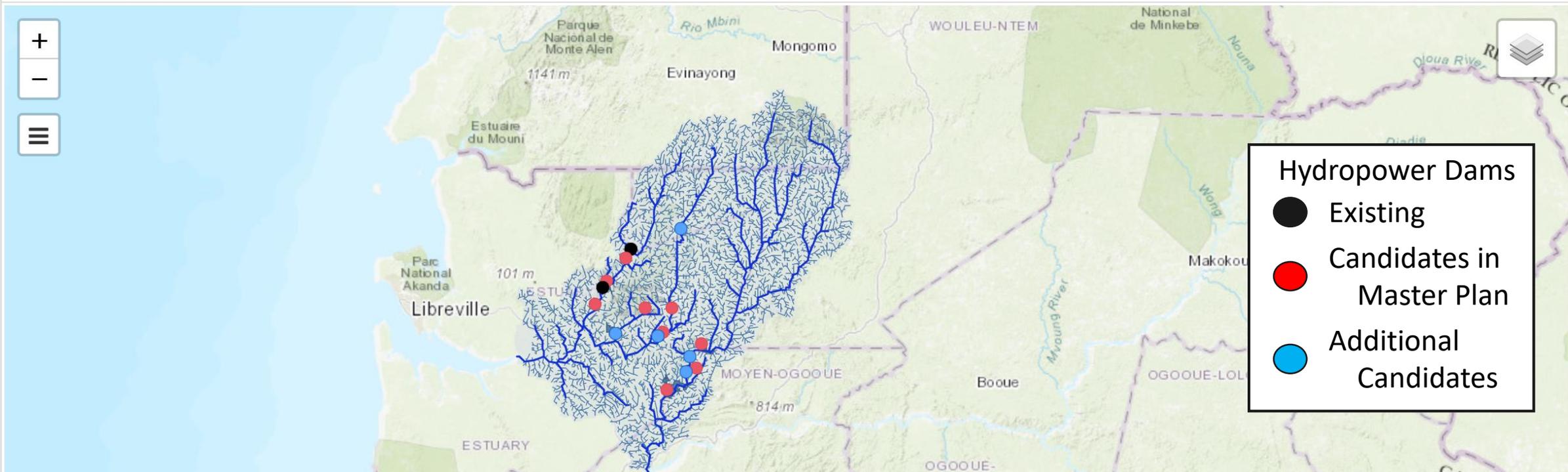




Value of Strategic Planning

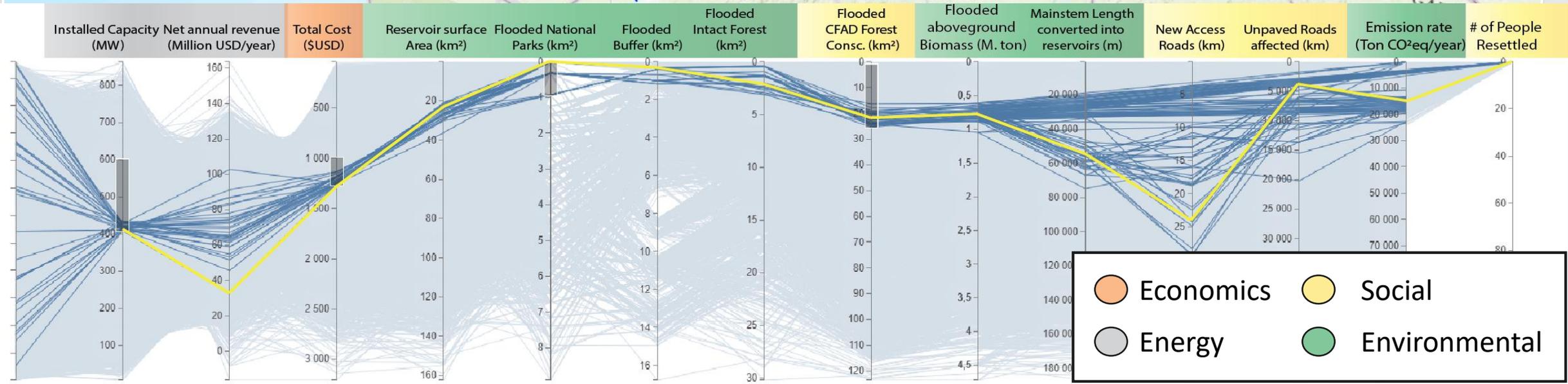






Hydropower Dams

- Existing
- Candidates in Master Plan
- Additional Candidates





25 years Netherlands Commission for
Environmental Assessment

Metrics Developed for Hydropower Planning

Economic

- Annual Payment (M USD/Yr)
- Construction Cost (M USD)
- Net annual revenue (M USD/Yr)
- Gross annual revenue (M USD/Yr)

Energy

- Annual production (GWh)
- Installed capacity (MW)

Social

- Number of people resettled (#)
- Length of new access roads (km)
- Area of forest concession flooded by reservoirs (km²)
- Unpaved roads affected (m)

Environmental

- Connected streams to the ocean (km)
- Emission rate (Ton CO₂ eq/year)
- Reservoir surface area (km²)
- Flooded areas of Intact Forest Landscape (km²)
- Flooded areas in National parks (km²)
- Flooded aboveground biomass (Million ton)