**Appendix 1: Chinese Hydropower Investment in Africa**

 **Hydropower Projects in Africa Financed by Institutions**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. C-I / P- 1** | **State**  | **Borrower**  | **Lender**  | **Amount (million USD)**  | **Project**  | **Domestic or Transboundary\***  | **River**  | **International Investment Treaty w/ China (year)** | **Party to the Belt and Road Initiative?** |
| CI P1 |   |   | China Energy Engineering Corporation  | 22  | Mabubas Hydropower Project Expansion 10MW  | Domestic  | Dande River  |   |   |
| P2 |   |   | Eximbank  | 112  | Hydropower in Chiumbe-dala 12.32MW  | Transboundary  | Chiumbe River (tributary of Congo)  |   |   |
| P3 | Angola | Government | ICBC  | 180  | Luachimo Hydropower Project; 36MW  | Transboundary  | Luachimo River (tributary of Congo)  | No | Yes |
| P4 |   |   | 60  | Lomaum Hydropower Project (65 MW)  | Domestic  | Catumbela River  |   |   |
| P5 |   |   | Multiple:  | 4100  | Caculo Cabaca Hydropower Project 2170MW  | Domestic  | Kwanza River  |   |   |
| P6 |   |   | ICBC; Eximbank; Bank of China; China Construction Bank; China Minsheng Bank; Ping An Bank; China Shanghai Pilot free Trade Zone  |   |   |
| C II P7 | **Benin**  | Government  | Eximbank  | 229  | Adjarala Hydropower Project 147MW  | Transboundary  | Mono River  | 2004 (not inforce) | Yes |
| CIII P8 | **Cameroon**  | Government  | Eximbank  | 52  | Mekin Hydropower Project 15MW  | Transboundary  | Dja River (border river)  |   |   |
| P9 | 541  | Memve'ele Hydropower Project 211 MW  | Transboundary  | Ntem River (border river)  |   |   |
| P10 | 142  | Memve'ele to Ebolowa Hydropower Transmission Lines #1; 225kV  | Transboundary  | Ntem River (border river)  | 1997 (in force 2014) | Yes |
| P11 | 142  | Memve'ele to Ebolowa Hydropower Transmission Lines #2; 225kV  | Transboundary  | Ntem River (border river)  |   |   |
| P12 | ICBC  | 289  | Warak Hydropower Project on Bini River; Adamaoua 75MW  | Transboundary  | Bini River (Lake Chad Basin)  |   |   |
| C IV P13 | **Central African Republic**  | Government  | MOFCOM  | 18  | Boali No.3 Hydropower Project 10MW  | Transboundary  | Mbali River (tributary of Congo)  | No |   |
| C V P14 | **Cote d’Ivoire**  | Government  | Eximbank  | 500  | Soubre Hydropower Project 275MW  | Transboundary  | Sassandra River (Cote D’Ivoire, Guinea)  | 2002 (not in force) | Yes |
| C VI P15 | **Democratic Republic of the Congo**  | Government  | Eximbank  | 367  | Zongo II Hydropower Station 150MW  | Transboundary  | Inkisa River (tributary of Congo)  |   | Yes |
| P16 | Sicohydro  | 165  | Busanga Hydropower Project 240MW  | Transboundary  | Lualaba River (tributary of Congo)  | 2011 (not in force) |   |
| C VII P17 | **Equatorial Guinea**  | Government  | Eximbank  | 257  | Djibloho Hydropower Project 120MW  | Domestic  | Wele River  | 2005 (in force 2006) | Yes |
| C 8 P18 | **Ethiopia**  | Ethiopian Electric Power Corporation  | Eximbank  | 89  | Gibe III Hydropower Project 10x187(1870MW) - C (total 612mn)  | Transboundary  | Omo River (Turkana Basin)  |   |   |
| P19 | Government  | 116  | Finchaa-Amerti-Neshe (FAN) Hydropower Project; 97MW  | Transboundary  | Amerti/Neshi River (Nile)  |   |   |
| P20 | Government  | 270  | Genale-Dawa III Hydropower Project 3x84.7(254MW)  | Transboundary  | Jubba River (Ganale)  | 1998 (in force 2000) | Yes |
| P21 | Government  | 188  | Addis Ababa; 400km Transmission Lines and Substations; Gibe III Hydropower Project (total 612mn)  | Transboundary  | Omo River (Turkana Basin)  |   |   |
| P22 | Ethiopian Electric Power Corporation  | ICBC  | 425  | Gibe III Hydropower Project 10x187(1870MW)  | Transboundary  | Omo River (Turkana Basin)  |   |   |
| C IX P23 | **Gabon**  | Government  | Eximbank  | 318  | Grand Poubara Hydropower Project 160MW; Phase I  | Transboundary  | Ogooué River  | 1997 (in force 2009) | Yes |
| C X P24 | **Ghana**  | Government  | Eximbank  | 306  | Bui Hydropower Project 400 MW  | Transboundary  | Black Volta River  |   |   |
| P25 | 292  | Bui Hydropower Project 400 MW  |   |   |
| P26 | 75  | Bui Hydropower Project 400MW Additional Finance Loan 1  | 1989 (in force 1990) | Yes |
| P27 | 76  | Bui Hydropower Project 400 MW Additional Finance Loan 2  |   |   |
| C XI P28 | **Guinea**  | Government  | China International Water & Electric Corporation (CWE)  | 335  | Kaleta Hydropower Project 240MW  | Domestic  | Konkoure River  |   |   |
| P29 | Chinese Government  | 2  | Tinkisso Hydropower Project 11MW  |   Transboundary |   Tinkisso River |   | Yes |
| P30 | 4  | Kinkon Hydropower Project 3.4MW  | Domestic  |   Koulu River | 2005 (not in force) |   |
| P31 | Souapiti Hydropower SPV  | Eximbank  | 599  | Souapiti Hydropower Project 450MW  | Domestic  | Konkoure River  |   |   |
| C XII P32 | **Madagascar**  | Government  | Eximbank  | 197  | Ranomafana Hydropower Plant on Ikopa River 86MW  | Domestic  | Ikopa River  | 2005, in force 2007 | Yes |
| C XIII P33 | **Mali**  | Government  | Eximbank  | 248  | Gouina Hydropower Project 140MW  | Transboundary  | Senegal River  | 2009, in force | Yes |
| C XIV P34 | **Republic of Congo**  | Government  | China Machinery Engineering Corporation  | 238  | Imboulou Hydropower Station 20MW  | Transboundary  | Lefini River (tributary of Congo)  |   |   |
| P35 | Eximbank  | 264  | Transmission Lines from Imboulou Hydropower: 780km of 220kV; 91km of 110kV; 350km of 20kV&30kV  | Transboundary  | Lefini River (tributary of Congo)  |   |   |
| P36 | 105  | Liouesso Hydropower Project 19.9MW  | Transboundary  | Sangha River (tributary of Congo)  | 2000 (in force 2015) | Yes |
| P37 | 37  | 74km Transmission Line from Liouesso Hydropower Project to the town of Ouesso-North; 110kV  | Transboundary  | Sangha River (tributary of Congo)  |   |   |
| C XV P38 | **Senegal**  | Government  | Eximbank  | 146  | Gouina Hydropower 140MW Project; Senegal Portion  | Transboundary  | Senegal River  | no | Yes |
| C XVI P39 | **Sierra Leone**  | Government  | Eximbank  | 3  | Goma Hydropower Project Repairs in Dodo chiefdom Kenema District  | Domestic  | Sewa River  | 2001 (not in force) | Yes |
|  C XVII P40 | **Sudan**  | Government  | Chinese Government  | 104  | Upper Atbara Hydropower Project - 135 MW  | Transboundary  | Atbarah River (Nile)  |   |   |
| P 41 | Eximbank  | 608  | Merowe Hydropower Project 1; 250MW  | Transboundary  | Nile  | 1997, in force 1998 | Yes |
| P42 | 381  | Merowe Hydropower Project transmission lines and substations  |   |   |
| C XVIII P43 | **Uganda**  | Government  | Eximbank  | 1445  | Karuma Hydropower Project 600MW; 400kV Karuma-Kawanda & 400kV Karuma-Olwiyo & 80km Karuma-Lira Transmission Lines; 132kV; 6 Substations 400kV  | Transboundary  | Nile  | 2004 (not inforce) | Yes |
| P44 | 483  | Isimba Hydropower Project 183MW  | Transboundary  | Nile  |   |   |
| C XIX P45 | **Zambia**  | Kariba North Bank Extension Power Corporation Limited  | Eximbank  | 316  | Kariba North Bank Extension Hydropower Project 360 MW  | Transboundary  | Zambezi River  |   |   |
| P46 | Zambia Electricity Supply Corporation Limited  |    | 183  | Lusiwasi Lower Hydropower Expansion Project / Lunzua Hydropower Rehabilitation Project 86MW  | Transboundary  | Kafue River (tributary of Zamebzi) / Lunzua River (drains into Lake Tanganyika)  | 1996, in force 2014 | Yes |
| P47 | ICBC  | 35  | Musonda Falls Hydropower Plant Rehabilitation and Upgrading; 10MW  | Transboundary  | Luongo River (tributary of Congo)  |   |   |
| C XX P48 | **Zimbabwe**  | Government  | Eximbank  | 160  | Kariba South Bank Hydropower Extension 300MW  | Transboundary  | Zambezi River  | 1996, in force 1998 | Yes |

**Source:** Statistical information on China’s hydropower investment, excluding the transboundary status of each project, comes from: Brautigam, D., Hwang, J., Link, J., & Acker, K. (2020). Chinese Loans to Africa Database. Retrieved from [https://chinaafricaloandata.org/#](https://chinaafricaloandata.org/); Information on investment treaties between China and these African states comes from: UNCTAD (2023). Investment Policy Hub. International Investment Agreement Navigator. <https://investmentpolicy.unctad.org/international-investment-agreements/countries/42/china>

**\***The authors have utilized a broad definition of “transboundary” to determine which projects may affect transboundary watercourses. For the purposes of this report, any hydropower project on a transboundary watercourse (mainstream or tributary, upstream or downstream, or river that forms the border) has been labelled as transboundary.