IPP Business in Japan

NiX is a small hydro power generation developer who excels at proposing total solutions, from the site development to power-generation planning, fund procurement, construction management, operation, and maintenance. Utilizing our expertise in small hydro power generation, we take part in projects not only within Japan, but in other Asian countries as well, as a private enterprise.

Small hydropower facility design

Yudani River Small Hydro Power plant

Location	Tamukai, Nanto city, Toyama prefecture
Hydropower generation type	Structure: Conduit type; Water utilization method: Run-off-river type
Output	Approved maximum capacity: P = 843 kW Annual power generation: Approx. 4,111 MWh (approx. 1,200 households'worth)
Start of operation	January 7,2019
Water consumption	Maximum discharge: 1.3 m^3/s
Head	Effective head: 73.0 m
Equipment	Water turbine: Horizontal Francis water turbine (×1) Generator: 3-phase induction generator (6.6 kV, 60 Hz) (×1) Penstock: Ø 800 (L = 1,260 m)

Hiraso River Small Hydro Power plant

Location	Nakato-machi, Kanazawa City, Ishikawa Prefecture
Output	198 kW
Start of operation	May 7, 2015
Estimated annual power generation	Approx. 976 MWh (approx. 270 households' worth)
Head	Effective head:17.17 m
Water consumption	Maximum discharge: 1.5 m^3/s
Equipment	Water turbine: S-shaped tubular water turbine Generator: Horizontal-shaft 3-phase induction generator Penstock: 800 mm dia

NiX Yatsuo Solar Power

Location	Kami-Sasahara, Yatsuo-machi, Toyama City
Output	1,260 kW (power conditioners: 1,260 kW; solar panels: 1,416 kW)
Start of operation	October 1,2014
Estimated annual power generation	Approx. 1,233 MWh (approx. 300 households' worth per year*)
Equipment	Solar panels: polycrystalline panels (295 W × 4,800 panels) Power conditioners: 630 kW × 2 units Stands: Frames fixed on ground screws (H = 1.5 m)

Kanazawa Yuwaku Small Hydro Power Plant

Location	Yuwakumagari-machi, Kanazawa City, Ishikawa Prefecture
Output	160kW
Start of operation	April 2, 2022
Estimated annual power generation	1,176MWh(280 households' worth)
Head	Effective head：77.7m
Water consumption	Maximum discharge：0.26m3/s
Equipment	Water turbine: Reverse running pump turbine(×1) Generator: 3phase induction generator(×1)