



# INDONESIA HYDRO™ CONSULT

HYDRO ENGINEERING CONSULTING SERVICES

*Solutions for your hydro business!*

Site identification and reconnaissance studies

Preliminary site assessments

Feasibility studies

Basic and detailed designs

Site surveys and investigations

Construction assistances

Project management

Construction management

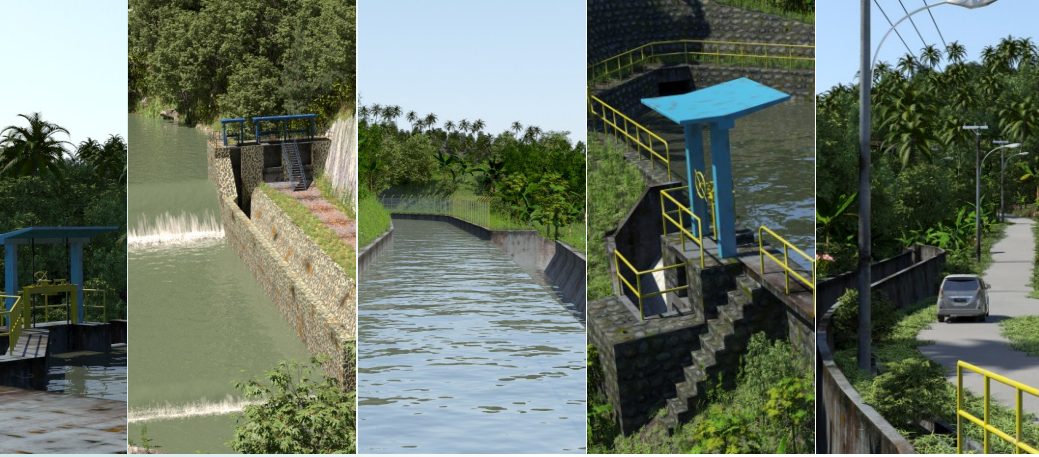
Technical due diligences

Project proposal evaluations

Bankability assessments



## ABOUT US



INDONESIA HYDRO™ CONSULT is a leading provider of hydro project solutions in Indonesia. We are the fastest growing hydro engineering consulting service company. We provide high quality on-site and remote consulting services for growing hydro developers nationwide and give them significant development benefit. Our objective is to enhance the success of our clients by providing solutions for projects and cost-effective consulting services for their business needs.

INDONESIA HYDRO™ CONSULT has expertise in the field of hydro engineering nationwide. The experience gained from site reconnaissance, planning and studies, design and design reviews, and construction assistances have made us capable to offer comprehensive consultancy services. Our benefits from the previous projects enable us to offer improvement at every step of the project. Our experience and resources enable innovative development to assemble project teams quickly, based on the technical requirements of each project.

As a major player in our nationwide market, INDONESIA HYDRO™ CONSULT bring to their clients engineering services for hydropowers, dams, hydraulic structures and river managements, from reconnaissance study to operation. Their technical excellence is the keystone of the success behind the projects.



## COMPANY TIMELINE

### 2010

INDONESIA HYDRO™ CONSULT was founded by Dhani Irwanto, in response to the high demand of consulting services for hydropower developers nationwide.

### 2011

Endorsed by the Minister of Trade. Meanwhile had carried out 15 hydropower projects and began to become reference by hydropower developers and lending banks.

### 2012

Internationally recognized. There were booming hydropower projects, more than 50 projects have been undertaken. Become the main reference for lending banks.

### 2016

Has received 9 awards for best innovative, leading, trusted, reliable, improved consultant.

### TODAY

More than 100 projects has been undertaken. Have carried out more than 500 preliminary site assessment studies. Began to expand the business to the neighboring countries.

## THE FOUNDER



Dhani Irwanto is a senior civil engineer who has professional experience in hydropower, dam and hydraulic structures since 1987. He has been involved in more than 200 hydropower projects in Indonesia. He has the capability of developing softwares, mainly to support his work. He is trained on hydropower and dam engineering, and investment appraisal on infrastructure projects.

INDONESIA HYDRO™ CONSULT provides consulting service at every step of hydro development projects. Our abundant experiences, resources, data, research, hardwares and softwares make us capable to produce quick, accurate, optimized, comprehensive, efficient and cost-effective solutions for your business.

## **SITE IDENTIFICATION AND RECONNAISSANCE STUDIES**

Site identification of potential sites and reconnaissance studies of cost-effectiveness of sites.

## **PRELIMINARY SITE ASSESSMENTS**

Preliminary assessments of sites to estimate site potential, preliminary estimate of project cost and preliminary feasibility of project sites. Our abundant collections of maps, hydro-meteorological data and hydropower plant database are very useful to do the assessments. SimPower software is used in the analysis.

## **FEASIBILITY STUDIES**

Feasibility assessments of project sites including hydrological analysis, site surveys and investigations, project layout and basic design, project cost estimates and project financial feasibility.

## **BASIC AND DETAILED DESIGNS**

Basic and detailed design of project sites including preparation of engineering calculations and analysis, basic and detailed drawings, bill of quantities, project cost estimates, technical specifications, bid documents and artist's impressions.

## **SITE SURVEYS AND INVESTIGATIONS**

Site surveys and investigations to support project preparations including topographic surveys, geological and geotechnical investigations, construction material surveys and hydrological observations.

## **CONSTRUCTION ASSISTANCES**

Engineering assistances to support procurement and construction activities of projects.

## **PROJECT MANAGEMENT**

Management of projects including initiation, planning and design, execution and construction, monitoring and controlling systems, and completion of projects.

## **CONSTRUCTION MANAGEMENT**

Management in construction works to optimize use of available funds, control the scope of works, control the project schedule, optimize use of design and construction firms' skills and talents, avoid delays, changes and disputes, enhance project design and construction quality, optimize flexibility in contracting and procurement; and manage project cash flow.

## **TECHNICAL DUE DILIGENCES**

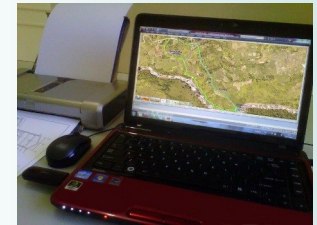
Detailed technical examinations of projects before becoming involved in business arrangement.

## **PROJECT PROPOSAL EVALUATIONS**

Evaluations of proposed projects to be developed to assess their favorability for investments.

## **BANKABILITY ASSESSMENTS**

Evaluate the bankability of projects from technical point of view.





INDONESIA HYDRO™ CONSULT has expertise in the field of hydro engineering nationwide. Our experience and resources enable innovative development to assemble project teams quickly, based on the technical requirements of each project.

The following list shows the projects and sites have been and being undertaken, not including preliminary assessment of more than 500 sites, and projects under permitting process.

1. Study of Small Hydropower Potentials in Terengganu, Malaysia
2. Kepahiang Hydropower Project (27.5 MW) in Kepahiang, Bengkulu, Indonesia
3. Lubu Hydropower Project (20 MW) in Pasaman, West Sumatera, Indonesia
4. Koro Lariang Hydropower Project (115 MW) in Sigi, Central Sulawesi, Indonesia
5. Koro Yaentu Hydropower Project (17 MW) in Poso, Central Sulawesi, Indonesia
6. Agam Sipinang Hydropower Project (620 kW) in Agam, West Sumatera, Indonesia
7. Pasaman Malampah Hydropower Project (310 kW) in Pasaman, West Sumatera, Indonesia
8. Kualu Hydropower Project (18 MW) in Toba Samosir, North Sumatera, Indonesia
9. Bungin 3 Hydropower Project (5 MW) in Enrekang, South Sulawesi, Indonesia
10. Serayu Hydropower Project (18 MW) in Banyumas, Central Java, Indonesia
11. Ciarinem Hydropower Project (4 MW) in Garut, West Java, Indonesia
12. Bontomatene Hydropower Project (2.2 MW) in Goa, South Sulawesi, Indonesia

13. Potential Screening of 50 Hydropower Sites in Dam, Indonesia
14. Majasari Hydropower Project (8 MW) in Banjarnegara, Central Java, Indonesia
15. Kotaagung Hydropower Project (28 MW) in Kepahiang, Bengkulu, Indonesia
16. Pongkor Hydropower Project (7.5 MW) in Bogor, West Java, Indonesia
17. Lubukgadang Hydropower Project (8 MW) in South Solok, West Sumatera, Indonesia
18. Lambur Hydropower Project (8 MW) in Pekalongan, Central Java, Indonesia
19. Harjosari Hydropower Project (10 MW) in Pekalongan, Central Java, Indonesia
20. Gunungwugul Hydropower Project (3 MW) in Banjarnegara, Central Java, Indonesia
21. Small Hydro Resource Mapping in Indonesia
22. Ketelang Hydropower Project (4 MW) in Lebong, Bengkulu, Indonesia
23. Bayang Hydropower Project (5.8 MW) in Pesisir Selatan, West Sumatera, Indonesia
24. Cibalapulang 3 Hydropower Project (6 MW) in Cianjur, West Java, Indonesia
25. Cibalapulang 2 Hydropower Project (6.5 MW) in Cianjur, West Java, Indonesia
26. Windusari Hydropower Project (4 MW) in Banjarnegara, Central Java, Indonesia
27. Limbangan Hydropower Project (5 MW) in Banjarnegara, Central Java, Indonesia
28. Ranteangin 8 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
29. Ranteangin 7 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
30. Ranteangin 6 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
31. Ranteangin 5 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
32. Ranteangin 4 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
33. Ranteangin 3 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
34. Ranteangin 2 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
35. Ranteangin 1 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
36. Lasusua 2 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
37. Lasusua 1 Hydropower Project in North Kolaka, Southeast Sulawesi, Indonesia
38. Komerling Hydropower Project (2.6 MW) in East Ogan Komerling Ulu, South Sumatera, Indonesia
39. Sumpur Hydropower Project (8 MW) in Pasaman, West Sumatera, Indonesia
40. Tinombo Hydropower Project (1.7 MW) in Parigi Moutong, Central Sulawesi, Indonesia
41. Palasa Hydropower Project (6.8 MW) in Parigi Moutong, Central Sulawesi, Indonesia
42. Lhoksandeng 3 Hydropower Project (5.4 MW) in Pidie Jaya, Aceh, Indonesia
43. Bayangnyalo Hydropower Project (7.2 MW) in Pesisir Selatan, West Sumatera, Indonesia
44. Baliase Hydropower Project (10 MW) in North Luwu, South Sulawesi, Indonesia
45. Rongkong Hydropower Project (9.6 MW) in North Luwu, South Sulawesi, Indonesia
46. Datara Hydropower Project (9 MW) in Gowa, South Sulawesi, Indonesia
47. Ketol Hydropower Projects (10 MW) in Central Aceh, Aceh, Indonesia
48. Dominanga Hydropower Project (1.3 MW) in Bolaang Mongondow, North Sulawesi, Indonesia
49. Kerpap Hydropower Project (2.5 MW) in Central Aceh, Aceh, Indonesia
50. Pusaka 1 Hydropower Project (10 MW) and Pusaka 3 Hydropower Project (3.2 MW) in Cianjur, West Java, Indonesia
51. Silinda Hydropower Project (3.6 MW) in Serdang Bedagai, North Sumatera, Indonesia
52. Muaralangkap Hydropower Project (1.5 MW) in North Bengkulu, Bengkulu, Indonesia
53. Panyairan Hydropower Project (8.2 MW) in Garut, West Java, Indonesia
54. Jayamukti Hydropower Project (7 MW) in Garut, West Java, Indonesia
55. Malabar Hydropower Project (800 kW) in Bandung, West Java, Indonesia

56. Kalibening Hydropower Project (3 MW) in Banjarnegara, Central Java, Indonesia
57. Curug Malela Hydropower Project (3.2 MW) in West Bandung, West Java, Indonesia
58. Curug Citambur Hydropower Project (620 kW) in Cianjur, West Java, Indonesia
59. Cisemeut Hydropower Project (3.3 MW) in Lebak, Banten, Indonesia
60. Cisiuh Leutik Hydropower Project (1.7 MW) in Lebak, Banten, Indonesia
61. Cisereuh Hydropower Project (2.1 MW) in Sukabumi, West Java, Indonesia
62. Cileteuh Hydropower Project (1.8 MW) in Sukabumi, West Java, Indonesia
63. Cibareno Hydropower Project (2.9 MW) in Lebak, Banten, Indonesia
64. Cibalapulang 1 Hydropower Project (10 MW) in Cianjur, West Java, Indonesia
65. Palumbungan Hydropower Project (1.7 kW) in Purbalingga, Central Java, Indonesia
66. Air Meo Hydropower Project (2 × 1350 MW) in Muaraenim, South Sumatera, Indonesia
67. Tina Hydropower Project (10 MW) in Buru, Maluku, Indonesia
68. Pusuk Hydropower Project (6.2 MW) in Humbang Hasundutan, North Sumatera, Indonesia
69. Parduaan Hydropower Project (10 MW) in Humbang Hasundutan, North Sumatera, Indonesia
70. Nambadia Hydropower Project (10 MW) in Humbang Hasundutan, North Sumatera, Indonesia
71. Tornaui Hydropower Project (8 MW) in Humbang Hasundutan, North Sumatera, Indonesia
72. Lae Ordi 2 Hydropower Project (7.6 MW) in Pakpak Barat, North Sumatera, Indonesia
73. Cicatih Hydropower Project (6.4 MW) in Sukabumi, West Java, Indonesia
74. Sambirata Hydropower Project (1.5 MW) in Banyumas, Central Java, Indonesia
75. Ambal Hydropower Project (2.1 MW) in Banjarnegara, Central Java, Indonesia
76. Banjaran Hydropower Project (2.2 MW) in Banyumas, Central Java, Indonesia
77. Babakan Hydropower Project (1.34 MW) in Banyumas, Central Java, Indonesia
78. Baseh Hydropower Project (1.9 MW) in Banyumas, Central Java, Indonesia
79. Sunyalangu Hydropower Project (1.5 MW) in Banyumas, Central Java, Indonesia
80. Singgi Hydropower Project (220 kW) in Banjarnegara, Central Java, Indonesia
81. Kincang Hydropower Project (320 kW) in Banjarnegara, Central Java, Indonesia
82. Adipasir Tiga Hydropower Project (320 kW) in Banjarnegara, Central Java, Indonesia
83. Adipasir Dua Hydropower Project (340 kW) in Banjarnegara, Central Java, Indonesia
84. Adipasir Satu Hydropower Project (340 kW) in Banjarnegara, Central Java, Indonesia



**Friendship:**

- care for each other,
- give each other support and comfort,
- honor honesty, trust, loyalty and unconditional acceptance.

**FRIENDSHIP- AND-TRUST-BASED BUSINESS**

**Trust:**

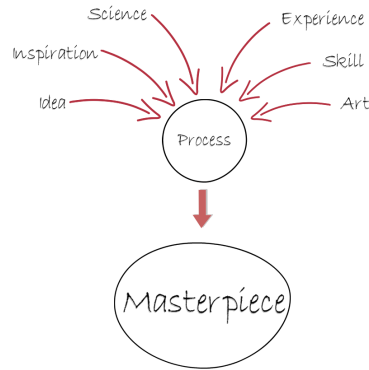
- authentic and consistent,
- have integrity, compassion, lots common sense and many friends
- be kind, humble, open and attach importance to others.



**NOT WORKING, BUT CREATING MASTERPIECE**



Working: make money is a priority.  
 Creating masterpiece: producing artistry is priority, money is the result.



**TAKE ADVANTAGE OF CUTTING-EDGE TECHNOLOGY**

**UNIQUE AND QUALITY WORKS**



Create unique works that can not be produced by others.

**Q**

Give works with excessive quality.

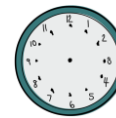


Give more than requested.



Give appreciations for their achievements.

**RELAXED AND FUN ATMOSPHERE**



No restriction of working hours.



Can work anywhere.



Can dress as they like.



In fresh air, away from city crowd.



Joking, regardless of positions.



Make employees comfortable to work.

## WHY YOU NEED US?

Hydro projects are considered as having high risk in costs and revenues since they highly dependent on water resources availability and site specific structures. Comprehensive planning, engineering, procurement, construction and operation as well as skilled and experienced personnel are highly required to minimize the risk. Failures in employing each of them may cause whole project failures.

Cost effectiveness and risk are key points of a success developer, achieving them requires comprehensive, efficient and optimized planning, surveys, investigations, analysis, design, project management and project supervision.

We have experience gained from every step of the projects undertaken that made us capable to offer comprehensive consultancy services emerging in efficient and cost-effective solutions for your business needs.



**INDONESIA HYDRO™ CONSULT**  
HYDRO ENGINEERING CONSULTING SERVICES


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*Renewable energy saves our earth!*